

Daily Scrum Meeting Minutes, Sprint Planning, Backlog Grooming, Review and Retrospectives.

The following document enumerates all Sprints, complete with their corresponding sprint planning, daily standup meetings, backlog grooming, retrospective, and review minutes.

Attendance is noted atop of each meeting.

Team Members

Capstone II:

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Carolina Camarda
Ignacio Guzman

Professor Masoud Sadjadi

FIU SCIS Senior Project

Fall 2020

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Sprint 1

Sprint 1 Planning Meeting Minutes:

Sprint Planning Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda

Start time: 12:00 PM

End time: 12:40 PM

The team has agreed to setting up the environment and getting familiar with the project is the goal of the sprint.

The velocity of the team was estimated to be 30

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- **Story001:** As an engineer I want to fork the project so the team can begin to collaborate.
- **Story002:** As an engineer I want to Set up the environment so that new features can be implemented to the project.
- **Story003:** As an engineer i want to set up the database so we can populate data into the application.
- **Story004:** As an engineer I want to create a superuser on my local environment to familiarize myself with the application.
- **Story005:** As an engineer I want to have a scrum board to track project progress.

NOTE: We will be working on the same stories as we need to set up the project.

The team members indicated their willingness to work on the following user stories.

- Anthony Cardona
 - **Story001:** As an engineer I want to fork the project so the team can begin to collaborate.
 - **Story002:** As an engineer I want to Set up the environment so that new features can be implemented to the project.
 - **Story003:** As an engineer i want to set up the database so we can populate data into the application.
 - **Story004:** As an engineer I want to create a superuser on my local environment to familiarize myself with the application.
 - **Story005:** As an engineer I want to have a scrum board to track project progress.
- Carolina Camarda
 - **Story001:** As an engineer I want to fork the project so the team can begin to collaborate.
 - **Story002:** As an engineer I want to Set up the environment so that new features can be implemented to the project.
 - **Story003:** As an engineer i want to set up the database so we can populate data into the application.
 - **Story004:** As an engineer I want to create a superuser on my local environment to familiarize myself with the application.
 - **Story005:** As an engineer I want to have a scrum board to track project progress.

Sprint 1 Daily Standup Meetings

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda

Start time: 12:00 PM

End time: 12:40

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2, setting up sprint documents and sprint meetings
- What was done since the last scrum meeting?
 - Sprint Planning
- What is planned to be done until the next scrum meeting?
 - Fork Project
 - Set up environment
- What are the hurdles?
 - Pending Feature Wish List to create backlog of User Stories

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2 hours
- What was done since the last scrum meeting?
 - Sprint planning, communicated with PO
- What is planned to be done until the next scrum meeting?
 - Fork project and set up the environment
- What are the hurdles?
 - Waiting on requirements to be listed and given before we can start developing

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00pm

End time: 12:30pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Help complete scrum board for initial project set up
 - Began the installation of tools and application
- What is planned to be done until the next scrum meeting?
 - Set up environment
 - Set up database
- What are the hurdles?
 - Pending New features from PO

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2

- What was done since the last scrum meeting?
 - Help complete scrum board for sprint 1
 - Watched user guide videos
 - Began the installation of tools and application
- What is planned to be done until the next scrum meeting?
 - Set up environment
- What are the hurdles?
 - Pending new list of features from PO

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Help complete scrum board for for sprint 1
- What is planned to be done until the next scrum meeting?
 - Set up project
- What are the hurdles?
 - Pending new list of features from PO

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00pm

End time: 12:30pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Set up environment and dependencies
 - Loaded Database with sql files
- What is planned to be done until the next scrum meeting?
 - Fix issues populating data on the application
- What are the hurdles?
 - Database data not loading properly
 - Pending new features from PO.

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Went over installation guide.
- What is planned to be done until the next scrum meeting?
 - Finish setting up project environment and database.
- What are the hurdles?
 - Pending new features from PO.

Ignacio Guzmán

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Watched Installation and Maintenance Guide Video
 - Watched Web Interface User Guide Video
 - Installed Python, PyCharm and MySQL Server
- What is planned to be done until the next scrum meeting?
 - finalize system dependencies installations and their configurations
- What are the hurdles?
 - finalize installation and configuration of development environment
 - Pending new features from PO.

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00

End time: 12:30

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Resolved database issues
 - Created a super user
- What is planned to be done until the next scrum meeting?
 - Create tickets
 - Familiarize myself with the application
 - Reach out to PO
- What are the hurdles?
 - Pending new features for PO

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Successfully set up project environment
- What is planned to be done until the next scrum meeting?
 - Load database and SQL files
- What are the hurdles?
 - Problems loading database successfully
 - Pending new features for PO.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - worked on importing database tables and records
- What is planned to be done until the next scrum meeting?
 - finalized development environment setup

- What are the hurdles?
 - problems unzipping the database file
 - Pending new features for PO

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00

End time: 12:30

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Create tickets
 - Familiarize myself with the application
 - Reach out to PO for new features
- What is planned to be done until the next scrum meeting?
 - Begin working on Wishlist items
- What are the hurdles?
 - Pending new features for PO

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Loaded database and SQL files.
- What is planned to be done until the next scrum meeting?
 - Create a super user
 - Create tickets
 - Contact PO
- What are the hurdles?
 - Pending new features for PO.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
 - What was done since the last scrum meeting?
 - Created the MySQL Database ServiceStatus
 - Generated schema from provided files and restored sample data
 - Create a system administrator account and a test ticket
 - What is planned to be done until the next scrum meeting?
 - Research on FIU license for PyCharm Professional
 - What are the hurdles?
 - PyCharm Professional license is 30 days evaluation period
 - Pending new features for PO.
-

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:45pm

End time: 1:00pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Discussed the scope of the new Kytos project with POs and team
 - Added new stories to the scrum board
 - Began working on Kytos Tutorial
 - Read documentation for Kytos
- What is planned to be done until the next scrum meeting?
 - Finish reading documentation on Kytos
 - Finish First 2 tutorials for new project
- What are the hurdles?
 - Project scope has changed and new stories and expectations have been set for the team
 - Pending new work items and stories from POs

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Attended Backlog Grooming meeting with team and POs.
 - Received overview of new Kytos project.
- What is planned to be done until the next scrum meeting?
 - Watch tutorials and learn about the Kytos project.
 - Learn how to set up a development environment for Kytos.
 - Learn how to set up Network Applications for Kytos.
- What are the hurdles?
 - Original project was changed and we must adapt to a new environment.
 - Waiting on new stories from POs.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
 - What was done since the last scrum meeting?
 - Attended meeting with PO and team.
 - Received overview of the new Kytos project
 - Started tutorials to learn the Kytos SDN Platform
 - What is planned to be done until the next scrum meeting?
 - Continue tutorials to learn the Kytos SDN Platform
 - Start setting up Kytos SDN Platform development environment
 - What are the hurdles?
 - Original project was replaced, bringing a new learning curve
 - Pending new project work items from the product owner.\
-

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda

Start time: 12:00 PM

End time: 12:15PM

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Added new tasks to the project backlog
 - Created a Linux VM to work on Kytos project
- What is planned to be done until the next scrum meeting?
 - Finish reading documentation on Kytos
 - Finish First 2 tutorials for new project
- What are the hurdles?
 - Needed to spin up a Linux VM to properly work on project

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Watched tutorials and learned about the Kytos project.
 - Learned how to set up a development environment for Kytos.
 - Learned how to set up Network Applications for Kytos.
- What is planned to be done until the next scrum meeting?
 - See if a virtual machine is needed in order to run Kytos.
 - Attempt to set up development environment.
- What are the hurdles?
 - Getting used to Kytos project.

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda;

Start time: 12:00

End time: 12:15

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Finished reading documentation on Kytos
 - Finished first 2 tutorials for new project
- What is planned to be done until the next scrum meeting?
 - Complete tutorials
- What are the hurdles?
 - PPA in documentation was removed from public access, needed to find workaround

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
 - What was done since the last scrum meeting?
 - Finished reading over dev env and NApp tutorials.
 - Learned more about Ubuntu.
 - What is planned to be done until the next scrum meeting?
 - Complete missing tutorials and feel more comfortable with the project setting.
 - What are the hurdles?
 - Installing Ubuntu and adding PPA
-

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00

End time: 12:15

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue working on tutorials
 - Familiarize myself with the project
- What is planned to be done until the next scrum meeting?
 - Finish Tutorials
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Focused on learning more about Ubuntu and Kytos
- What is planned to be done until the next scrum meeting?
 - Play around with the project setting.
 - Familiarize myself with the project.
- What are the hurdles?
 - Getting to know Ubuntu and adding PPA.

Ignacio Guzman

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Initialized setting up the Ubuntu VM environment for Kytos
 - Go over Kytos tutorials
- What is planned to be done until the next scrum meeting?
 - Finalized setting up the Ubuntu VM environment
 - Initialized the installation and configuration of Kytos SDN
- What are the hurdles?
 - Oracle VM VirtualBox technical issues with Ubuntu setup

- learn the Kytos SDN platform



Sprint 1 Backlog Grooming Meeting Minutes

Sprint Backlog Grooming Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00pm

End time: 12:45pm

The following user stories were created/discussed/refined/prioritized.

- Story005: As an engineer I want to watch tutorials on how to set up my development environment to work on Kytos.
- Story006: As an engineer I want to watch tutorials on the basic structure of a Network Application and how to build my own.
- Story007: As an engineer I want to learn how to create and manage events under Kytos.
- Story008: As an engineer I want to set up the dev environment to start collaborating on the Kytos project.
- Story009: As an engineer I want to read documentation for Kytos SDN platform to understand current functionality of the project.

Sprint 1 Retrospective Meeting Minutes

Sprint Retrospective Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 9:20 pm

End time: 10:00 pm

What went wrong?

- Did we do a good job estimating our team's velocity?
 - No. Our POs changed the project and introduced a new development platform halfway through the sprint. We are currently working on learning how to use the new environment and learning how to create network applications.
- Did we do a good job estimating the points (time required) for each user story?
 - Yes, the team did a good job on separating the points each day of the sprint and completed the initial set up and tutorial user stories.
- Did each team member work as scheduled?
 - Yes, each team member worked 2 hours per day and collaborated with other team members for a minimum of 30 minutes a day each day.

What went right?

- Meeting Minutes were completed accordingly and initial set up and tutorial user points were completed as well.

How to address the issues in the next sprint?

- How to improve the process?
 - We have to communicate more with POs and focus on asking the right questions.
- How to improve the product?
 - Familiarize ourselves with the new product, development platform and its features.

Sprint 1 Review Meeting Minutes

Sprint Review Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 9:20 pm

End time: 10:00 pm

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners: All.

- **Story001:** As an engineer I want to fork the project so the team can begin to collaborate.
- **Story002:** As an engineer I want to Set up the environment so that new features can be implemented to the project.
- **Story003:** As an engineer I want to set up the database so we can populate data into the application.
- **Story004:** As an engineer I want to create a superuser on my local environment to familiarize myself with the application.
- **Story005:** As an engineer I want to have a scrum board to track project progress.
- **Story006:** As an engineer I want to watch tutorials to build and learn how to make a NApp to understand the project
- **Story007:** Read documentation for Kytos SDN platform to understand current functionality of the project.
- **Story008:** As an engineer I want to set up the dev environment to start collaborating on the Kytos project

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Sprint Planning meeting.

Note: Our team began to work on a new application as there were no new features that the POs wanted to add to the existing application. New stories were added halfway through the sprint so they are now added to our backlog

- **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend
- **Story013:** As a network operator user, I want to create a Kytos E-Line EVC using the UI where I select the primary and optionally the backup paths OR
- **Story014:** As a network operator user, I want to create a Kytos E-Line EVC using the UI where Kytos suggests a path (leveraging the Kytos Pathfinder application)
- **Story015:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the EVC was requested AND enabled

- **Story016:** As a network operator user, I want to see any error on the requests I sent as well as returned errors from the controller so that I can have a clear view about the system status.
- **Story017:** As a network operator user, I want the Kytos E-Line EVC UI to show all current EVCs installed
- **Story018:** As a network operator user, I want to search EVCs by name, UNI, tag value, node, NNI, status (enabled, disabled, inactive, active) or all of them so that I can have a clear view about requested/provisioned EVCs.
- **Story019:** As a network operator user, I want to use the Kytos E-Line EVC UI to disable one or more EVCs
- **Story020:** As a network operator user, I want to use the Kytos E-Line EVC UI to disable one or more EVCs
- **Story021:** As a network operator user, I want to use the Kytos E-Line EVC UI to edit any EVC's parameter

Sprint 2

Sprint 2 Planning Meeting Minutes:

Sprint Planning Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 6:30 pm

End time: 7:00 pm

After discussion, the velocity of the team was estimated to be 17 Story points

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

The team members indicated their willingness to work on the following user stories.

- Anthony Cardona
 - **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)
- Ignacio Guzman
 - **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
 - **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend
- Carolina Camarda
 - **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
 - **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

Sprint 2 Daily Standup Meetings

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 7:00 pm

End time: 7:15 pm

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Finalized the Kytos Ubuntu development environment
 - Continue Kytos SDN development platform tutorials
- What is planned to be done until the next scrum meeting?
 - Finalize the Kytos SDN tutorials
 - Join the Kytos development Slack channel
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2 hours
- What was done since the last scrum meeting?
 - Successfully installed dev env and got Ubuntu running.
 - Sprint planning meeting with team.
 - Finished Kytos tutorials.
 - Set up and joined Slack channel for Kytos.
- What is planned to be done until the next scrum meeting?
 - Continue learning more about Kytos.
 - Look over and start working on Story011.
 - Check the Trello board to see teammate progress.
- What are the hurdles?
 - None.

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2 hours
 - What was done since the last scrum meeting?
 - Sprint Planning meeting with team
 - Moved User stories from backlog into current sprint on the sprint board
 - Reached out to mentor on Kytos slack channel
 - Working on new user stories
 - What is planned to be done until the next scrum meeting?
 - Continue working on use story 009
 - Keep learning the functionality of Kytos project
 - What are the hurdles?
 - None
-

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Discussed preferred Editor with Daniela
 - Read documentation on Kytos
 - Continue working on story
- What is planned to be done until the next scrum meeting?
 - Continue working on story
- What are the hurdles?
 - To install editor and slack on VM, had to increase VDI size

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Began working on story011
 - Read Kytos documentation
 - Read about Kytos E-Line Ethernet Virtual Circuit
- What is planned to be done until the next scrum meeting?
 - Continue working on story011
- What are the hurdles?
 - Need to familiarize with Kytos EVC

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue Kytos SDN tutorials
 - Started working on Story010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story010
- What are the hurdles?
 - Familiarize with Kytos development framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?

- 2
- What was done since the last scrum meeting?
 - Worked on story
- What is planned to be done until the next scrum meeting?
 - Continue working on story
- What are the hurdles?
 - Learning new application
 - Learn how to create emulated switches

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on story
- What is planned to be done until the next scrum meeting?
 - Continue working on story
- What are the hurdles?
 - Learning new application

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on story
 - Read documentation
 - Was able to create a simulated virtual network through mininet
- What is planned to be done until the next scrum meeting?
 - Continue working on story
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on story011
- What is planned to be done until the next scrum meeting?
 - Continue working on story011
 - Played around with Kyto's SDN framework
- What are the hurdles?
 - None

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Set up more switches on virtual environment
 - Work on story
- What is planned to be done until the next scrum meeting?
 - Work on story
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Kept working on user story 011
 - Getting used to framework
- What is planned to be done until the next scrum meeting?
 - Continue working on user story 011
- What are the hurdles?
 - None

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:45 pm

End time: 1:00 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Sprint Backlog Grooming
 - Discussed production topology with senior developer so local environment mirrors production
 - Work on story
- What is planned to be done until the next scrum meeting?
 - Work on story
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Sprint Backlog Grooming
 - Worked on story011
- What is planned to be done until the next scrum meeting?
 - Work on story011
- What are the hurdles?
 - None

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?

- Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Migrated Mininet script to remote machine to create Topology
 - Began reading the new UI Component documentation provided by Humberto
- What is planned to be done until the next scrum meeting?
 - Work on story
 - Finish reading web UI Component documentation
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Attended meeting with POs
 - Kept working on story011
 - Looked into drop down menus on Kytos
- What is planned to be done until the next scrum meeting?
 - Finish story011
- What are the hurdles?
 - None

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - read new UI Component documentation provided by Humberto
- What is planned to be done until the next scrum meeting?
 - Work on story
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - working on creating a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- What is planned to be done until the next scrum meeting?
 - Work on story
- What are the hurdles?
 - None

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Research implementations for creating E-line EVC
- What is planned to be done until the next scrum meeting?

- Work on story
- What are the hurdles?
 - Trying to to create the E-line EVC

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on story011
- What is planned to be done until the next scrum meeting?
 - Finish story011 and update to slack board
- What are the hurdles?
 - Time management

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:30pm

End time: 12:45pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Sprint Review Meeting
 - Sprint Retrospective Meeting
 - Work on story
- What is planned to be done until the next scrum meeting?
 - Work on story
- What are the hurdles?
 - Implementation of creating the E-line EVC

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Sprint Review Meeting

- Sprint Retrospective Meeting
 - Work on story011
- What is planned to be done until the next scrum meeting?
 - Finish story011
- What are the hurdles?
 - Not able to work much due to surgery.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
 - What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
 - What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
 - What are the hurdles?
 - Learning the Kytos SDN framework
-

Sprint 2 Backlog Grooming Meeting Minutes

Sprint Backlog Grooming Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00

End time: 12:45

The following user stories were created/discussed/refined/prioritized.

- **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

Sprint 2 Retrospective Meeting Minutes

Sprint Retrospective Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:45pm

End time: 1:00pm

What went wrong?

- Did we do a good job estimating our team's velocity?
 - No, the team is still learning the new application and over estimated the capacity that could be completed per sprint
- Did we do a good job estimating the points (time required) for each user story?
 - No, the team is still learning the framework for the project which limited development. New documentation and resources were provided which should improve development of stories
- Did each team member work as scheduled?
 - Yes

What went right?

- Communicated between team members and with POs as well.
- Smooth progress.

How to address the issues in the next sprint?

- How to improve the process?
 - Continue to communicate.
- How to improve the product?
 - Keep getting more comfortable with Kytos platform.

Sprint 2 Review Meeting Minutes

Sprint Review Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00pm

End time: 12:30pm

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners:

- **None:** The team is still learning the framework for the application which limited development. New documentation and resources were provided which should help improve the development of new features

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Sprint Planning meeting.

- **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)
 - **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
 - **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
 - **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend
-
- How this should be reflected on the user story definition in Mingle:
 - The stories will be moved over to Sprint 3 as they have not been 100% completed yet. Progress will continue to be shared with POs.

Sprint 3

Sprint 3 Planning Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

After discussion, the velocity of the team was estimated to be 18 Story points

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

Sprint 3 Daily Standup Meetings

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona

Start time: 12:15 pm

End time: 12:30pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Create new Ubuntu VM with larger drive space
 - Install Pycharm on new VM
 - Install Slack on new VM
 - Clone Project on new VM
 - Transfer existing Files
- What is planned to be done until the next scrum meeting?
 - Recreate mininet Topology
- What are the hurdles?
 - Drive space issues on VM, needed to recreate VM with more drive space

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on story011
- What is planned to be done until the next scrum meeting?
 - Work on story011
- What are the hurdles?
 - Progress is slow as I'm recovering from surgery.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Ignacio Guzman

Start time: 12:15 pm

End time: 12:30pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Created linear topology
 - Work on user story
- What is planned to be done until the next scrum meeting?
 - Create a ring topology
 - Work on user story
- What are the hurdles?
 - Issues with new VM, repo folders were locked

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on story011
 - Continue learning the Kytos framework
- What is planned to be done until the next scrum meeting?
 - Continue working on story011
- What are the hurdles?
 - Progress still slow due to surgery recovery.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Ignacio Guzman, Carolina Camarda

Start time: 12:15 pm

End time: 12:30pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Try to create a ring topology through python script using mininet
 - Work on user story
- What is planned to be done until the next scrum meeting?
 - Work on user story

- What are the hurdles?
 - None

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on story011
 - Worked on kytos framework
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
 - Reach a milestone.
- What are the hurdles?
 - None

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Ignacio Guzman, Carolina Camarda
 Start time: 12:15 pm
 End time: 12:30pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Try to create a ring topology through python script using mininet
 - Work on user story
- What is planned to be done until the next scrum meeting?
 - Work on user story
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?

- Work on user story
- What is planned to be done until the next scrum meeting?
 - Work on user story
- What are the hurdles?
 - studying for midterms

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Looked at the UI documentation
 - Familiarize myself with kytos components and models
- What is planned to be done until the next scrum meeting?
 - Begin development of creating EVC for story
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on story011.
 - Learning Kytos SDN framework.
- What is planned to be done until the next scrum meeting?
 - Reach definitive milestone before the end of Sprint 3
- What are the hurdles?
 - Studying for midterms.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2

- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Raised Question regarding the UI component to Senior Dev
 - Began creating kytos components for Creating EVC
 - Reached out to PO for requirements for creating EVC
- What is planned to be done until the next scrum meeting?
 - Develop remaining components for Creating EVCs
- What are the hurdles?
 - Learning the Kytos Components and event actions
 - Knowledge on how to create EVCs

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Backlog grooming meeting
 - Work on user story 011
- What is planned to be done until the next scrum meeting?
 - Ask POs about EVCs
- What are the hurdles?
 - Still adjusting to Kytos framework

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?

- Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Met with team to discuss progress
 - Connected with developer regarding some concerns
 - Created Issue on project git
 - Started reading mef_eline documentation
- What is planned to be done until the next scrum meeting?
 - Implement mef_eline API for EVC
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Caught up with team for backlog grooming
 - Worked on EVC implementation
- What is planned to be done until the next scrum meeting?
 - Continue working on story011
- What are the hurdles?
 - None

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Reading mef_eline API documentation
 - Started developing Kytos events
- What is planned to be done until the next scrum meeting?
 - Implement mef_eline API for EVC creation components
- What are the hurdles?
 - Midterms

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Working on EVC drop down menu
 - Worked on story011
- What is planned to be done until the next scrum meeting?
 - Catch up team on my progress
- What are the hurdles?
 - Midterms week

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Reading mef_eline API documentation
- What is planned to be done until the next scrum meeting?

- Raise question on development slack channel
 - Experiment with development of EVCs
- What are the hurdles?
 - Midterms

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on story011
 - Worked with Kytos SDN framework
- What is planned to be done until the next scrum meeting?
 - Work on story011
- What are the hurdles?
 - Midterms

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Reading mef_eline API documentation
 - Experiment with development of EVCs
- What is planned to be done until the next scrum meeting?
 - Experiment with development of EVCs
- What are the hurdles?
 - Midterms
 - 400 errors creating EVC

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2

- What was done since the last scrum meeting?
 - Worked on story011
 - Played around with dropdown menu functionality
- What is planned to be done until the next scrum meeting?
 - Continue working on story011
 - Prepare for PO demo meeting
- What are the hurdles?
 - Studying for midterms

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
 - What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
 - What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
 - What are the hurdles?
 - Learning the Kytos SDN framework
-

Sprint 3 Backlog Grooming Meeting Minutes

Sprint Backlog Grooming Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:45 pm

The following user stories were created/discussed/refined/prioritized.

- **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

Sprint 3 Retrospective Meeting Minutes

Sprint Retrospective Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:45pm

End time: 1:00pm

What went wrong?

- Did we do a good job estimating our team's velocity?
 - No, the complexity of the new application was underestimated and the
- Did we do a good job estimating the points (time required) for each user story?
 - No, the team is still learning the application and the complexity of the new framework and its dependencies is becoming more apparent with further development
- Did each team member work as scheduled?
 - Yes

What went right?

- Communication with the PO which provided us with more documentation and resources to help our progress

How to address the issues in the next sprint?

- How to improve the process?
 - Communicate more with senior developers to aid in the development of these new features
- How to improve the product?
 - Document any new developments
 - Understand and learning the inner workings of the new application

Sprint 3 Review Meeting Minutes

Sprint Review Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:15pm

End time: 12:45pm

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners:

- **None:** The team is still learning the framework for the application which limited development. New documentation and resources were provided which should help improve the development of new features

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Sprint Planning meeting.

- **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend
 - How this should be reflected on the user story definition in Mingle:
 - The stories will be moved over to Sprint 4 as they have not been 100% completed yet. Progress will continue to be shared with POs daily.

Sprint 4

Sprint 4 Planning Meeting Minutes:

Sprint Planning Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

After discussion, the velocity of the team was estimated to be 18 story points.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

The team members indicated their willingness to work on the following user stories.

- Anthony Cardona
 - **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)
- Ignacio Guzman
 - **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
 - **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend
- Carolina Camarda
 - **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
 - **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

Sprint 4 Daily Standup Meetings

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:15 pm

End time: 12:30pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - updated the "value" key for the request_circuit function which called the api/kytos/mef_eline/v2/evc/ POST request to match documentation
- What is planned to be done until the next scrum meeting?
 - Test POST request with switches and end points in the Topology
- What are the hurdles?
 - Understanding Mininet
 - Learning networking architecture
 - Understanding Kytos
 - Midterms

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Took a look at kytos/mef_eline
 - Worked on story011
- What is planned to be done until the next scrum meeting?
 - Prepare demo for meeting with POs.
- What are the hurdles?
 - Midterms
 - Work schedule interfering

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:15 pm

End time: 12:30pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Reading through Mininet documentation to understand creating host switches and nodes
- What is planned to be done until the next scrum meeting?
 - Implement new mininet knowledge for developing UserStory
- What are the hurdles?
 - Learning Mininet
 - Understanding of Kytos app

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Preparing demo for POs
 - Worked on implementing NApps
 - Learning Kytos SDN framework
- What is planned to be done until the next scrum meeting?
 - Continue working on story011
- What are the hurdles?
 - Problems connecting mininet
 - Midterms + work schedule

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:15 pm

End time: 12:30pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?

- Experimented more with Mininet and updated the post request schema for creating the EVC
- What is planned to be done until the next scrum meeting?
 - Work with Antonio to resolve 400 post request errors
- What are the hurdles?
 - Still getting a 400 status for the post request after passing the IPV6 address from the mininet hosts to uni_a and uni_b endpoint
 - Learning Mininet
 - Understanding of Kytos app

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on implementing EVC
 - Worked on mininet functionality
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
- What are the hurdles?
 - Midterms

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Made custom mininet script to auto generate topology
 - Reached out to senior dev for assistance
- What is planned to be done until the next scrum meeting?
 - Work with Antonio to resolve 400 post request errors
- What are the hurdles?

- Still getting a 400 status for the post request after passing the IPV6 address from the mininet hosts to uni_a and uni_b endpoint
- Learning Mininet
- Understanding of Kytos app

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Prepping for demo with the POs
 - Worked on story011
- What is planned to be done until the next scrum meeting?
 - Work on story011
- What are the hurdles?
 - Studying for midterms

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Reached out to senior dev for assistance
- What is planned to be done until the next scrum meeting?
 - Work with Antonio to resolve 400 post request errors
- What are the hurdles?
 - Still getting a 400 status for the post request after passing the IPV6 address from the mininet hosts to uni_a and uni_b endpoint
 - Learning Mininet
 - Understanding of Kytos app

Carolina Camarda:

- How many hours did I work since the last meeting?

- 2
- What was done since the last scrum meeting?
 - Prepping for demo with the POs
 - Worked on story011
- What is planned to be done until the next scrum meeting?
 - Work on story011
- What are the hurdles?
 - Studying for midterms

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked with senior developer to resolve mininet issues
 - Successfully created circuit
- What is planned to be done until the next scrum meeting?
 - Log Circuit ID somewhere onto the application
- What are the hurdles?
 - Learning Mininet

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Prepping for demo with the POs
 - Worked on story011
- What is planned to be done until the next scrum meeting?
 - Work on story011
- What are the hurdles?
 - Studying for midterms

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2

- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Meeting with POs
 - Tried implementation to display the new EVC ID into the status bar
- What is planned to be done until the next scrum meeting?
 - Work on displaying new EVC ID onto the status bar
- What are the hurdles?
 - Kytos documentation

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Had meeting with POs
 - Tried implementing EVC
- What is planned to be done until the next scrum meeting?
 - Keep working on implementing circuit
- What are the hurdles?
 - Midterms
 - Getting used to Kytos SDN framework

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - midterms

- Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Meet with junior develop to suggest implementation of logging status response
 - Implemented an alert for displaying error messages and displaying new circuit ID
- What is planned to be done until the next scrum meeting?
 - Create Pull request
 - Start working on Story012
- What are the hurdles?
 - Kytos documentation

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Working on getting circuit to function.
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
- What are the hurdles?
 - Had a midterm today.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - midterms
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on Get request to get EVC IDs
- What is planned to be done until the next scrum meeting?
 - Get a singular get EVC ID per each request
- What are the hurdles?
 - Documentation is outdated, need to ask senior developer

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Working on getting the circuit to function.
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
- What are the hurdles?
 - Learning Kytos SDN framework.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - midterms
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Created a PR for US009
 - Worked on Get request to get EVC IDs
- What is planned to be done until the next scrum meeting?
 - Get feedback from pull request

- Get a singular get EVC ID per each request
- What are the hurdles?
 - Documentation is outdated, need to ask senior developer

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Working on implementing circuit
 - Working on connecting from drop-down menu
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
- What are the hurdles?
 - Learning Kytos SDN framework

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
 - What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
 - What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
 - What are the hurdles?
 - Learning the Kytos SDN framework
-

Sprint 4 Backlog Grooming Meeting Minutes

Sprint Backlog Grooming Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:45 pm

The following user stories were created/discussed/refined/prioritized.

- **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

Sprint 4 Retrospective Meeting Minutes

Sprint Retrospective Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:45pm

End time: 1:00pm

What went wrong?

- Did we do a good job estimating our team's velocity?
 - No, we are still learning the application and some stories are being backlogged
- Did we do a good job estimating the points (time required) for each user story?
 - No, the team is still learning the application and the complexity of the new framework and its dependencies is becoming more apparent with further development
- Did each team member work as scheduled?
 - Yes

What went right?

- Communication with the PO which provided us with more documentation and resources to help our progress

How to address the issues in the next sprint?

- How to improve the process?
 - Give feedback for outdated documentation
 - Communicate more with senior developers to aid in the development of these new features
- How to improve the product?
 - Document any new developments
 - Understand and learning the inner workings of the new application

Sprint 4 Review Meeting Minutes

Sprint Review Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:15pm

End time: 12:45pm

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners: All.

- **Story009:** As a network operator user, I want to create a Kytos E-Line Ethernet Virtual Circuit (EVC) using the Kytos Web User Interface (UI)

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Sprint Planning meeting.

- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend
- - How this should be reflected on the user story definition in Mingle:
 - The stories will be moved over to Sprint 4 as they have not been 100% completed yet. Progress will continue to be shared with POs daily.

Sprint 5

Sprint 5 Planning Meeting Minutes:

Sprint Planning Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

After discussion, the velocity of the team was estimated to be 15 story points

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

The team members indicated their willingness to work on the following user stories.

- Anthony Cardona
 - **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend
- Ignacio Guzman
 - **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- Carolina Camarda
 - **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint

Sprint 5 Daily Standup Meetings

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on Get request to get EVC IDs Story012
- What is planned to be done until the next scrum meeting?
 - Raise question to lead developer about CI pipeline Unit Tests
 - Get a singular get EVC ID per each request Story012
- What are the hurdles?
 - Documentation is outdated, need to ask senior developer

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Working on implementing circuit
 - Working on connecting from drop-down menu
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
 - What are the hurdles?
 - Learning Kytos SDN framework^{[P]_{SEP}}

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Work on get request for active EVCs
- What is planned to be done until the next scrum meeting?
 - Suggestions from team to get singular EVC per get request
- What are the hurdles?
 - Documentation

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Working on connecting e-line circuit
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
- What are the hurdles?
 - Learning Kytos SDN platform

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Successfully displayed if end points that are input are already in use
 - Met with developer to showcase work and discuss implementation of US012
 - Need to validate both the interfaceID and the port number
- What is planned to be done until the next scrum meeting?
 - Implement check for both interfaceID and port number for both endpoints
- What are the hurdles?
 - Documentation

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on UNI selection for EVC
- What is planned to be done until the next scrum meeting?
 - Be ready to meet with project owner by day5
- What are the hurdles?
 - Work schedule

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Updated pending pull request per suggestion of lead developer
- What is planned to be done until the next scrum meeting?
 - Update get request to also check for endpoint ports
- What are the hurdles?
 - Documentation

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on EVC connection
- What is planned to be done until the next scrum meeting?
 - Post questions on Kytos Slack channel
- What are the hurdles?
 - Learning Kytos SDN framework

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Update get request to also check for endpoint ports
- What is planned to be done until the next scrum meeting?
 - Combining Functionality of checking availability before sending EVC creation request
- What are the hurdles?
 - Documentation

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Working on connecting EVC
- What is planned to be done until the next scrum meeting?
 - Need to ask questions on Slack channel
- What are the hurdles?
 - Work schedule

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
 - What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
 - What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
 - What are the hurdles?
 - Learning the Kytos SDN framework
-

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Work on Ajax function to complete get request before post request
- What is planned to be done until the next scrum meeting?
 - Finish combining functionality of Get and Post request for EVC creation
- What are the hurdles?
 - Documentation

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Prepping for demo on Tuesday with POs
- What is planned to be done until the next scrum meeting?
 - Go over hurdles with POs and team.
- What are the hurdles?
 - Work schedule interfering
 - Problems setting up EVC

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?

- Meeting with POs
 - Showcase progress
- What is planned to be done until the next scrum meeting?
 - Finish ajax call for both get and post request
- What are the hurdles?
 - Handling both get and post request with one action

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Met with POs
 - Went over UI documentation
 - Played around with User Network Interface
- What is planned to be done until the next scrum meeting?
 - Work on drop down menu
- What are the hurdles?
 - Work schedule

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Trying to use both GET request and POST request on click action
- What is planned to be done until the next scrum meeting?
 - Finish ajax call for both get and post request
- What are the hurdles?
 - Handling both get and post request with one action

Carolina Camarda:

- How many hours did I work since the last meeting?

- 2
- What was done since the last scrum meeting?
 - Worked on EVC selection from drop down menu
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
- What are the hurdles?
 - Work schedule

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Discussed with developer implementation of US012
 - Added POST request to GET request call back
- What is planned to be done until the next scrum meeting?
 - Finish ajax call for both get and post request
- What are the hurdles?
 - Ajax syntax
 - Documentation

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on UI documentation
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
- What are the hurdles?
 - None

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
 - What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
 - What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
 - What are the hurdles?
 - Learning the Kytos SDN framework
-

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Finished POST request to GET request call back for US012
 - Created PR for new feature
- What is planned to be done until the next scrum meeting?
 - Start new Feature US017
- What are the hurdles?
 - Documentation

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Working on UI for drop down menu from Kytos UI documentation
- What is planned to be done until the next scrum meeting?
 - Finish story011 and communicate with POs for any necessary changes.
- What are the hurdles?
 - None.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
 - What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
 - What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
 - What are the hurdles?
 - Learning the Kytos SDN framework
-

Sprint 5 Backlog Grooming Meeting Minutes

Sprint Backlog Grooming Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:15 pm

End time: 12:45 pm

The following user stories were created/discussed/refined/prioritized.

- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

Sprint 5 Retrospective Meeting Minutes

Sprint Retrospective Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:45pm

End time: 1:00pm

What went wrong?

- Did we do a good job estimating our team's velocity?
 - No, we are still learning the application and some stories are being backlogged
- Did we do a good job estimating the points (time required) for each user story?
 - No, the team is still learning the application and the complexity of the new framework and its dependencies is becoming more apparent with further development
- Did each team member work as scheduled?
 - Yes

What went right?

- Communication with the PO which provided us with more documentation and resources to help our progress

How to address the issues in the next sprint?

- How to improve the process?
 - Give feedback for outdated documentation
 - Communicate more with senior developers to aid in the development of these new features
- How to improve the product?
 - Document any new developments
 - Understand and learning the inner workings of the new application

Sprint 5 Review Meeting Minutes

Sprint Review Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:15pm

End time: 12:45pm

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners:

- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Sprint Planning meeting.

- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
 - How this should be reflected on the user story definition in Mingle:
 - The stories will be moved over to Sprint 4 as they have not been 100% completed yet. Progress will continue to be shared with POs daily.

Sprint 6

Sprint 6 Planning Meeting Minutes:

Sprint Planning Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

After discussion, the velocity of the team was estimated to be 15 story points.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- **Story017:** As a network operator user, I want the Kytos E-Line EVC UI to show all current EVCs installed
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing

The team members indicated their willingness to work on the following user stories.

- Anthony Cardona
 - **Story017:** As a network operator user, I want the Kytos E-Line EVC UI to show all current EVCs installed
- Ignacio Guzman
 - **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- Carolina Camarda
 - **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint

Sprint 6 Daily Standup Meetings

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Reached out to PO for feedback
 - Started working on U017
 - Able to retrieve EVC information
- What is planned to be done until the next scrum meeting?
 - Format the EVC data in a table format
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Working on UI for drop down menu from Kytos UI documentation
- What is planned to be done until the next scrum meeting?
 - Keep working on final story011 points.
- What are the hurdles?
 - None.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Start documenting code changes
- What is planned to be done until the next scrum meeting?
 - Get feedback from developer and complete pull request
- What are the hurdles?
 - none

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on UI documentation
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
- What are the hurdles?
 - None

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00pm

End time: 12:15pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Rebase and push code for US012
 - Documentation, pending feedback
 - Working on US017
- What is planned to be done until the next scrum meeting?
 - Once i receive feedback, create a PR
- What are the hurdles?

- None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on story011 documentation
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
- What are the hurdles?
 - None

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00pm

End time: 12:15pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Update pending PR
 - Work on US017
- What is planned to be done until the next scrum meeting?
 - Work with developer do display existing EVCs
- What are the hurdles?
 - Kytos does not have an inbuilt table

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Requested additional meeting with POs
 - Worked on story 011 documentation.
- What is planned to be done until the next scrum meeting?
 - Finish story 011.

- What are the hurdles?
 - None.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman
 Start time: 12:00pm
 End time: 12:15pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Update pending PR
 - Work on US017
- What is planned to be done until the next scrum meeting?
 - Work with developer do display existing EVCs
- What are the hurdles?
 - Kytos does not have an inbuilt table
 -

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Spoke to POs about development
- What is planned to be done until the next scrum meeting?
 - Finish story011
- What are the hurdles?
 - Family problem.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?

- Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00pm

End time: 12:15pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Met with junior developer tried to resolve notification for EVC creation
- What is planned to be done until the next scrum meeting?
 - Refactor code to appropriately display notifications
- What are the hurdles?
 - New notification feature does not have documentation

Carolina Camarda

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on story011
- What is planned to be done until the next scrum meeting?
 - Finish story011
- What are the hurdles?
 - Studying for exams

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00pm

End time: 12:15pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Tried to resolve notification issues
- What is planned to be done until the next scrum meeting?
 - Fix notification issues
- What are the hurdles?
 - New notification feature does not have documentation

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Working on finishing UI for story011.
- What is planned to be done until the next scrum meeting?
 - Meet with POs to discuss progress.
- What are the hurdles?
 - Studying for exams.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00pm

End time: 12:15pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Tried implementing new Notification functionality
- What is planned to be done until the next scrum meeting?
 - Resolve notification functionality
- What are the hurdles?

- Notification documentation

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on documentation of story011
- What is planned to be done until the next scrum meeting?
 - Prepare for presentation with POs on Tuesday
 - Upload completed development
- What are the hurdles?
 - Studying for exams

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
 - What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
 - What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
 - What are the hurdles?
 - Learning the Kytos SDN framework
-

Sprint 6 Backlog Grooming Meeting Minutes

Sprint Backlog Grooming Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

The following user stories were created/discussed/refined/prioritized.

- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story017:** As a network operator user, I want the Kytos E-Line EVC UI to show all current EVCs installed

Sprint 6 Retrospective Meeting Minutes

Sprint Retrospective Meeting Minutes

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:45 pm

End time: 1:00 pm

What went wrong?

- Did we do a good job estimating our team's velocity?
 - No, we are still learning the application and some stories are being backlogged
- Did we do a good job estimating the points (time required) for each user story?
 - No, the team is still learning the application and the complexity of the new framework and its dependencies is becoming more apparent with further development
- Did each team member work as scheduled?
 - Yes, everyone completed their daily minimum 2 hour workload

What went right?

- Communication with the PO which provided us with more documentation and resources to help our progress

How to address the issues in the next sprint?

- How to improve the process?
 - Give more feedback for any development problems we run into.
 - Give feedback on outdated documentation.
 - Work more with senior developers to aid development of new features.
- How to improve the product?
 - Keep documenting new developments and communicating with the team.
 - Understand and learn the inner workings of the new application.

Sprint 6 Review Meeting Minutes

Sprint Review Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:15pm

End time: 12:45pm

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners:

- **Story012:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Sprint Planning meeting.

- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
 - How this should be reflected on the user story definition in Mingle:
 - The stories will be moved over to Sprint 7 as they have not been 100% completed yet. Progress will continue to be shared with POs daily. Story points must be finished by the end of this Sprint in order to have a complete final presentation.

Sprint 7

Sprint 7 Planning Meeting Minutes:

Sprint Planning Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

After discussion, the velocity of the team was estimated to be 15 story points.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- **Story017:** As a network operator user, I want the Kytos E-Line EVC UI to show all current EVCs installed
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing

The team members indicated their willingness to work on the following user stories.

- Anthony Cardona
 - **Story017:** As a network operator user, I want the Kytos E-Line EVC UI to show all current EVCs installed
- Ignacio Guzman
 - **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- Carolina Camarda
 - **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint

Sprint 7 Daily Standup Meetings

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on board
 - Started working on U017
 - Able to retrieve EVC information
- What is planned to be done until the next scrum meeting?
 - Format the EVC data in a table format
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on final story011 details for presentation with POs
- What is planned to be done until the next scrum meeting?
 - Present to POs and get feedback from them
- What are the hurdles?
 - studying for final exams

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:15 pm

End time: 12:30 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Made pull to update kytos to version 1.4
 - Got feedback how to create table
- What is planned to be done until the next scrum meeting?
 - Input data into table
- What are the hurdles?
 - No documentation for k-table
 - Inputting table data into table

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Spoke to Kytos team about my story points
 - Working on pull request
- What is planned to be done until the next scrum meeting?
 - Keep working on story011
- What are the hurdles?
 - Studying for exams

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:15 pm

End time: 12:30 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Finished implementation of table
 - Completed US017
- What is planned to be done until the next scrum meeting?
 - Work on notifications for EVC creation
 - Work on notifications for EVC creation failure

- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on UI documentation
- What is planned to be done until the next scrum meeting?
 - Finish documentation for story011
- What are the hurdles?
 - Studying for exams

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:15 pm

End time: 12:30 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Finished implementation of table
 - Completed US017
- What is planned to be done until the next scrum meeting?
 - Work on notifications for EVC creation
 - Work on notifications for EVC creation failure
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?

- Finished up some changes for story011
 - Worked on documentation
- What is planned to be done until the next scrum meeting?
 - Finish story011 and installation guide
- What are the hurdles?
 - Studying for final exams

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:15 pm

End time: 12:30 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Updating CSS for Connection table
- What is planned to be done until the next scrum meeting?
 - Finish Table CSS implementation
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on documentation
 - Worked on installation guide video for presentation
- What is planned to be done until the next scrum meeting?
 - Finish final documentation
- What are the hurdles?
 - Studying for final exams

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2

- What was done since the last scrum meeting?
 - Continue learning the Kytos SDN framework
 - Continue working on Story 010
- What is planned to be done until the next scrum meeting?
 - Continue working on Story 010
- What are the hurdles?
 - Learning the Kytos SDN framework

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:15 pm

End time: 12:30 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Finish updating the table CSS
- What is planned to be done until the next scrum meeting?
 - Gather feedback from PO and push code
 - Work on documentation
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on installation guide video
- What is planned to be done until the next scrum meeting?
 - Upload installation guide video
- What are the hurdles?
 - Studying for final exams

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Prepared presentation for project shortcoming video
- What is planned to be done until the next scrum meeting?
 - finalized shortcoming video
 - upload video
- What are the hurdles?
 - Preparing for semester finals

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:15 pm

End time: 12:30 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Work on project documentation
- What is planned to be done until the next scrum meeting?
 - Work on project documentation
 - Work on project Videos
- What are the hurdles?
 - Finals

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Attended dress rehearsal for presentation
 - Worked on documentation
 - Worked on installation video
- What is planned to be done until the next scrum meeting?
 - Finish individual poster
 - Finish any remaining documentation
- What are the hurdles?
 - Studying for final exams

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Participated in the rehearsal meeting
 - worked on individual poster
- What is planned to be done until the next scrum meeting?
 - finalized individual poster
- What are the hurdles?
 - Semester final exams

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2

- What was done since the last scrum meeting?
 - Work on project documentation
 - Finished the Notification implementation
- What is planned to be done until the next scrum meeting?
 - Work on project documentation
 - Work on project Videos
- What are the hurdles?
 - Finals

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Finished all videos
 - Worked on documentation
 - Senior Project showcase presentations
- What is planned to be done until the next scrum meeting?
 - Finish documentation
- What are the hurdles?
 - Studying for final exams

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
 - What was done since the last scrum meeting?
 - Worked on documentation
 - What is planned to be done until the next scrum meeting?
 - Finalize documentation
 - What are the hurdles?
 - semester final exams
-

Sprint 7 Backlog Grooming Meeting Minutes

Sprint Backlog Grooming Meeting Minutes:

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:15 pm

End time: 12:45 pm

The following user stories were created/discussed/refined/prioritized.

- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story017:** As a network operator user, I want the Kytos E-Line EVC UI to show all current EVCs installed
- **Story015:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the EVC was requested AND enabled
- **Story016:** As a network operator user, I want to see any error on the requests I sent as well as returned errors from the controller so that I can have a clear view about the system status.

Sprint 7 Retrospective Meeting Minutes

Sprint Retrospective Meeting Minutes

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:45 pm

End time: 1:00 pm

What went wrong?

- Did we do a good job estimating our team's velocity?
 - No, we are still learning the application and some stories are being backlogged
- Did we do a good job estimating the points (time required) for each user story?
 - No, the team is still learning the application and the complexity of the new framework and its dependencies is becoming more apparent with further development
- Did each team member work as scheduled?
 - Yes, everyone completed their daily minimum 2 hour workload

What went right?

- Communication with the PO and mentors, was able to bring in more user stories from the backlog to develop than originally planned.

How to address the issues in the next sprint?

- How to improve the process?
 - Give more feedback for any development problems we run into.
 - Work more with senior developers to aid development of new features.
- How to improve the product?
 - Keep documenting new developments and communicating with the team.
 - Understand and learn the inner workings of the new application.

Sprint 7 Review Meeting Minutes

Sprint Review Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:15pm

End time: 12:45pm

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners:

- **Story015:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the EVC was requested AND enabled
- **Story016:** As a network operator user, I want to see any error on the requests I sent as well as returned errors from the controller so that I can have a clear view about the system status.
- **Story017:** As a network operator user, I want the Kytos E-Line EVC UI to confirm the availability of the VLAN identifier (integer) before sending the request to the Kytos's backend

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Sprint Planning meeting.

- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint

Sprint 8

Sprint 8 Planning Meeting Minutes:

Sprint Planning Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:15 pm

End time: 12:45 pm

After discussion, the velocity of the team was estimated to be 15 story points.

- **Story022:** As a user, I want video recordings of the new functionality that has been added to the Kytos E Line NApp and its corresponding documentation.
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The product owner chose the following user stories to be done during the next sprint next semester. They are ordered based on their priority.

- **Story020:** As a network operator user, I want to use the Kytos E-Line EVC UI to disable one or more EVCs
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing

The team members indicated their willingness to work on the following user stories.

- Anthony Cardona
 - **Working on finalizing team documentation for submission.**
- Ignacio Guzman
 - **Working on finalizing team documentation for submission.**
- Carolina Camarda
 - **Working on finalizing team documentation for submission.**

Sprint 8 Daily Standup Meetings

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on Documentation
 - Research Deletion of EVC connection
- What is planned to be done until the next scrum meeting?
 - Work on pending PR
- What are the hurdles?
 - Finals

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on case diagram and sequence diagram.
- What is planned to be done until the next scrum meeting?
 - Work on finishing one user story, one case diagram, one class diagram, and one sequence diagram
- What are the hurdles?
 - Finals.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - worked on project documentation
- What is planned to be done until the next scrum meeting?
 - pending project documentation
- What are the hurdles?
 - semester final exams

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?

- Worked on Documentation
 - Research Deletion of EVC connection
- What is planned to be done until the next scrum meeting?
 - Work on pending PR
- What are the hurdles?
 - Finals

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on case diagram and sequence diagram.
- What is planned to be done until the next scrum meeting?
 - Work on finishing one user story, one case diagram, one class diagram, and one sequence diagram
- What are the hurdles?
 - Finals.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - worked on project documentation
- What is planned to be done until the next scrum meeting?
 - pending project documentation
- What are the hurdles?
 - semester final exams

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on Documentation and videos
 - Research Deletion of EVC connection
- What is planned to be done until the next scrum meeting?
 - Work on pending PR
- What are the hurdles?
 - Finals

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2

- What was done since the last scrum meeting?
 - Worked on case diagram and sequence diagram.
- What is planned to be done until the next scrum meeting?
 - Work on finishing one user story, one case diagram, one class diagram, and one sequence diagram
- What are the hurdles?
 - Finals.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - worked on project documentation
- What is planned to be done until the next scrum meeting?
 - pending project documentation
- What are the hurdles?
 - semester final exams

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - User manual
- What is planned to be done until the next scrum meeting?
 - Finish documentation
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on finishing one user story, one case diagram, one class diagram, and one sequence diagram
- What is planned to be done until the next scrum meeting?
 - Finish final touched for documentation.
- What are the hurdles?
 - None.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?

- worked on sequence diagram
- What is planned to be done until the next scrum meeting?
 - finalized project documentation
- What are the hurdles?
 - none

Daily Scrum Meeting Minutes:

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:00 pm

End time: 12:15 pm

Anthony Cardona:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Finished documentation
- What is planned to be done until the next scrum meeting?
 - Turn in documentation
- What are the hurdles?
 - None

Carolina Camarda:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Worked on finishing one user story, one case diagram, one class diagram, and one sequence diagram
- What is planned to be done until the next scrum meeting?
 - Turn in final documentation
- What are the hurdles?
 - None.

Ignacio Guzman:

- How many hours did I work since the last meeting?
 - 2
- What was done since the last scrum meeting?
 - Finished documentation
- What is planned to be done until the next scrum meeting?
 - Turn in documentation
- What are the hurdles?
 - None

Sprint 8 Retrospective Meeting Minutes

Sprint Retrospective Meeting Minutes

Attendees: Anthony Cardona, Carolina Camarda, Ignacio Guzman

Start time: 12:45 pm

End time: 1:00 pm

What went wrong?

- Did we do a good job estimating our team's velocity?
 - Yes, documentation was finalized and completed
- Did we do a good job estimating the points (time required) for each user story?
 - Yes, all work was completed
- Did each team member work as scheduled?
 - Yes

What went right?

- Communication with the PO and mentors, allowed us to document the application

Sprint 8 Review Meeting Minutes

Sprint Review Meeting Minutes

Attendees: Anthony Cardona; Carolina Camarda; Ignacio Guzman

Start time: 12:30pm

End time: 12:45pm

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners: All.

- **User Story 22:** As a user, I want video recordings of the new functionality that has been added to the Kytos E Line NApp and its corresponding documentation.

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Spring Planning meeting.

- **Story020:** As a network operator user, I want to use the Kytos E-Line EVC UI to disable one or more EVCs
- **Story011:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the User Network Interfaces (UNI) by using a dropdown menu after selecting the EVC's endpoint
- **Story010:** As a network operator user, I want to create a Kytos E-Line EVC by selecting the EVC endpoints (nodes or switches) by clicking in the Kytos topology drawing
 - How this should be reflected on the user story definition in Mingle: