

Capstone Project Selection Secured by AWS Security

Student: German Alvarenga

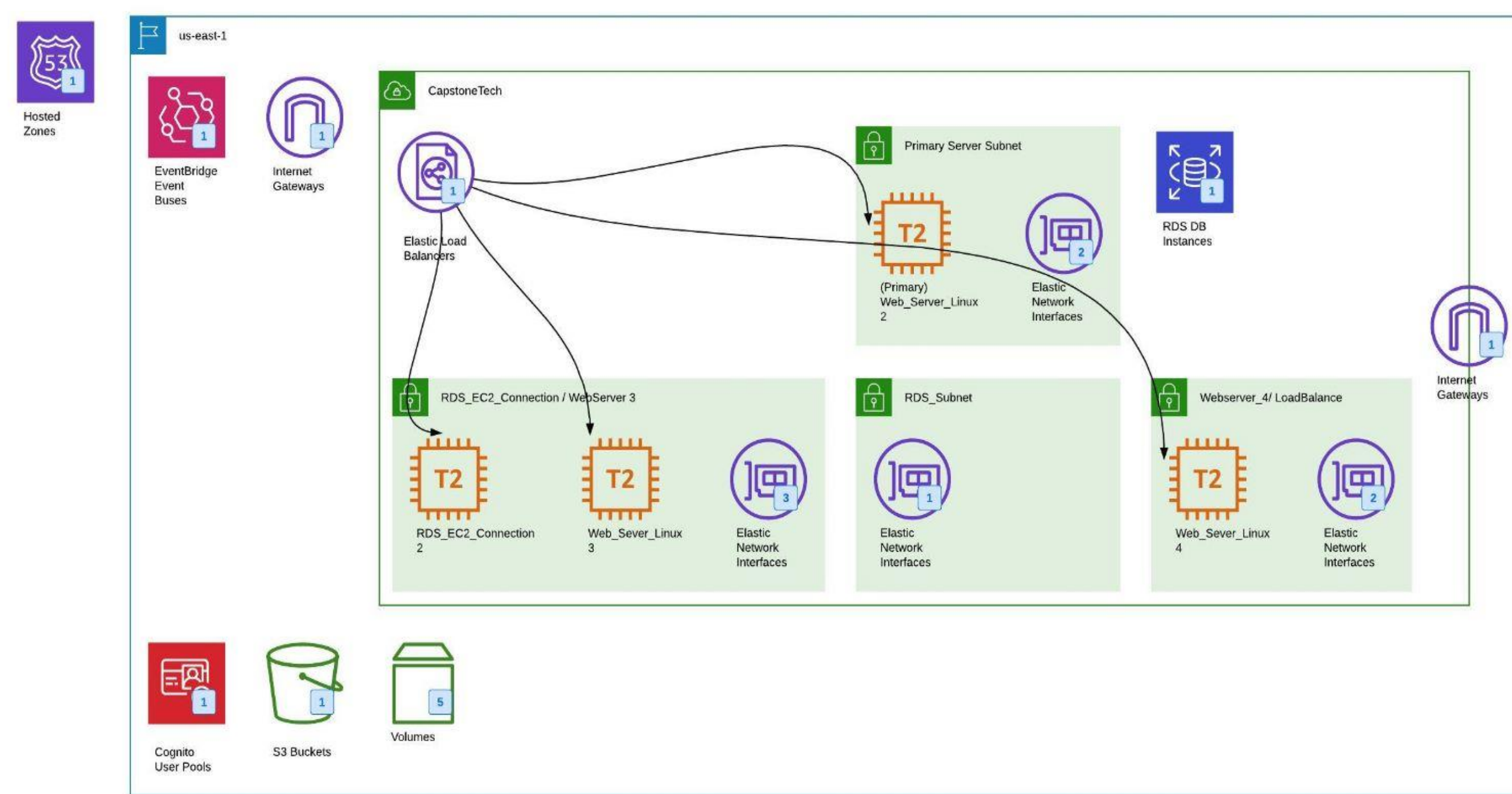
Instructor/Faculty: *Seyed-masoud Sadjadi*, Florida International University

CURRENT SYSTEM SECURITY ISSUES

PROBLEM

The current way of selecting projects for the Capstone1&2 students is lacking in security, where anybody can get into the spreadsheet and edit students' information. This leads to students being confused on the tasks.

SYSTEM DESIGN



IMPLEMENTATION



REQUIREMENTS

First the user would require internet access to a browser like google chrome, after they would need to know there FIU credentials to login to select project.

OBJECT DESIGN

[illegible]



Sign in with your email or phone number and password

Email or Phone number

Password

[Forgot your password?](#)

[Sign in](#)

Need an account? [Sign up](#)

RISK ANALYSIS

	Negligible	Moderate	Severe
Very Likely	Student signs in using non-FIU account	Students alter other student's information	Student deletes all information on excel
Somewhat Likely	Student signs in using another student's account	Student accesses AWS account that hosts the website and resources	Student emails classmates fake link leading to malicious site
Unlikely	Non-FIU student signs in and alters information	Students to DDOS server	Students access AWS using unsecure ports (80, 443, 3306, 22)

SUMMARY

In summary, It all began with our decision to revamp the selection system, prioritizing stability and usability. Initially, we substituted a login process that each student would need to create a secure account that would bring them to a page, allowing students to input their project decisions with ease. However, as time went by, we expanded the scope of the project to prevent potential confusion and user errors in the future. To prevent the rejection of oversized project groups, we incorporated a project selection algorithm into the project's back-end. Furthermore, we developed a user-friendly website that guides students through the necessary steps of project selection. At the end of the semester each student should enjoy their projects with ease.

CONTRIBUTION

After trying to follow the AWS modules, I tried working on Implementing EC2 buckets to our website to keep the buckets secure of malware.