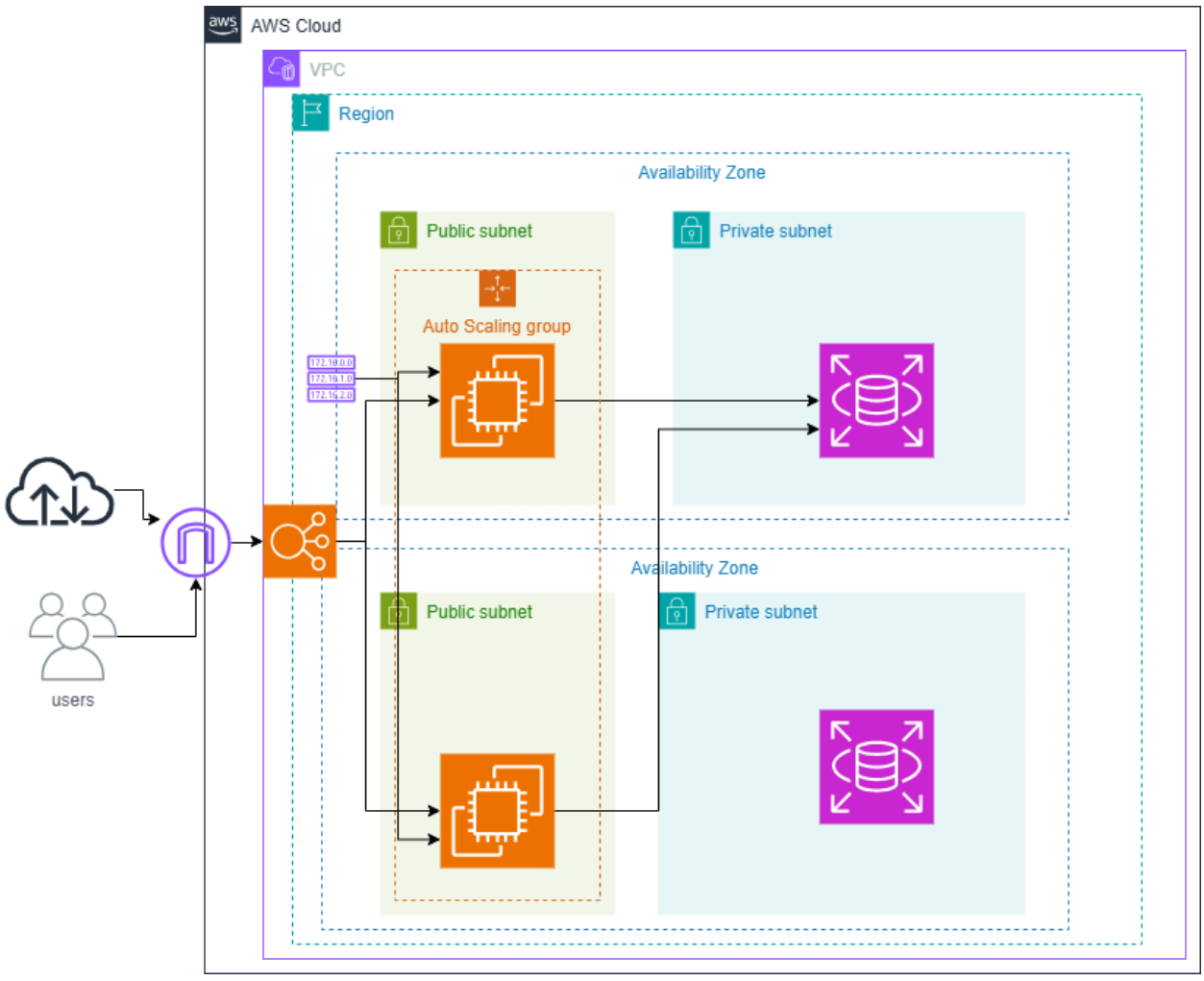
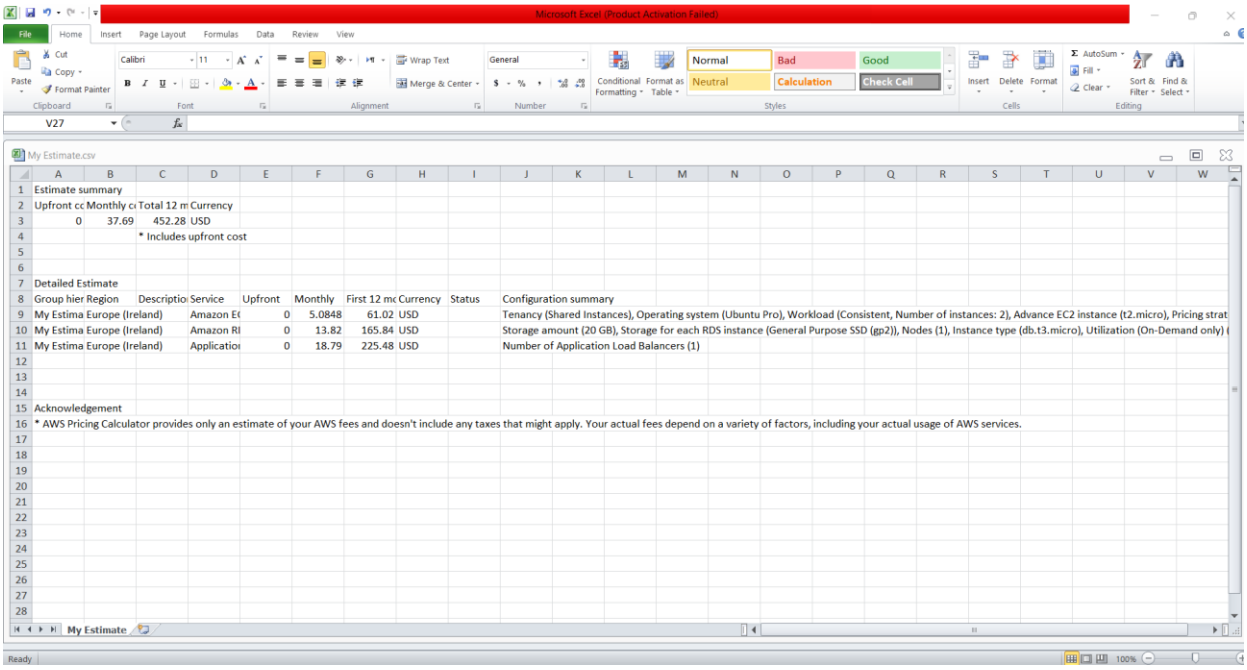
Report

Phase 1: Planning the design and estimating cost

Task 1: Creating an architectural diagram



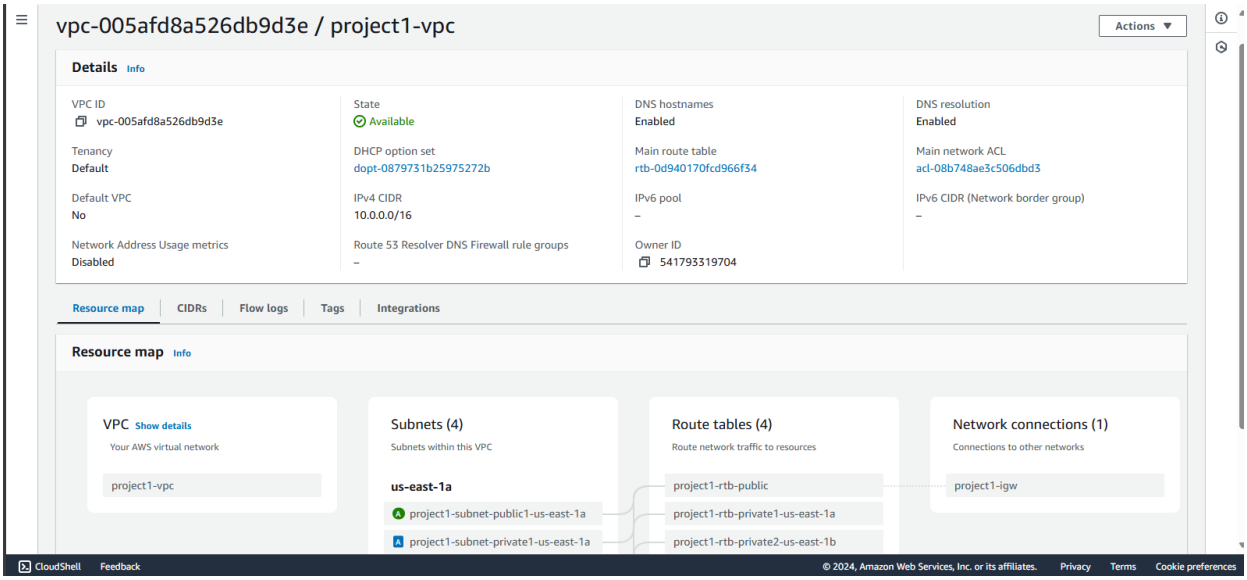
Task 2: Developing a cost estimate



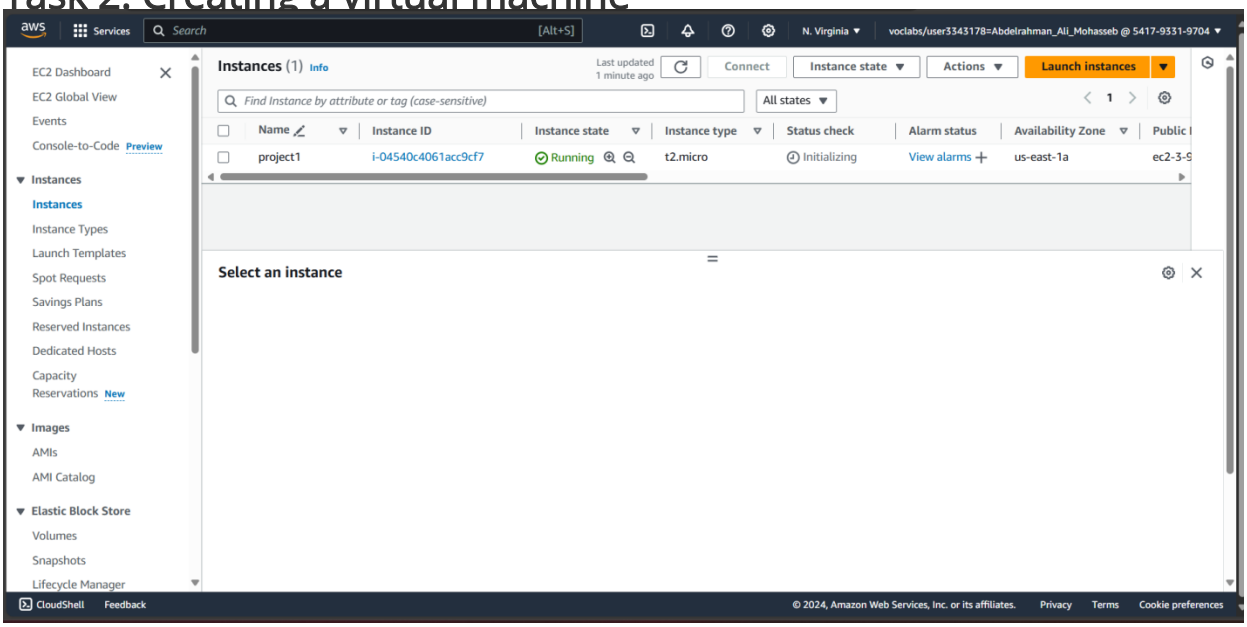
	A	B	C	D	E	F	G	H	I	J
1	Estimate summary									
2	Upfront cc	Monthly ci	Total 12 m	Currency						
3	0	37.69	452.28	USD						
4			* Includes upfront cost							
5										
6										
7	Detailed Estimate									
8	Group hier	Region	Descriptio	Service	Upfront	Monthly	First 12 mc	Currency	Status	Configuration summary
9	My Estima	Europe (Ireland)		Amazon E(	0	5.0848	61.02	USD		Tenancy (Shared Instances), Operating system (Ubuntu Pro), Workload (Consistent, Number of instances: 2), Advance EC2 instance (t2.micro), Pricing strat
10	My Estima	Europe (Ireland)		Amazon RI	0	13.82	165.84	USD		Storage amount (20 GB), Storage for each RDS instance (General Purpose SSD (gp2)), Nodes (1), Instance type (db.t3.micro), Utilization (On-Demand only) (
11	My Estima	Europe (Ireland)		Applicatio	0	18.79	225.48	USD		Number of Application Load Balancers (1)
12										
13										
14										
15	Acknowledgement									
16	* AWS Pricing Calculator provides only an estimate of your AWS fees and doesn't include any taxes that might apply. Your actual fees depend on a variety of factors, including your actual usage of AWS services.									

Phase 2: Creating a basic functional web application

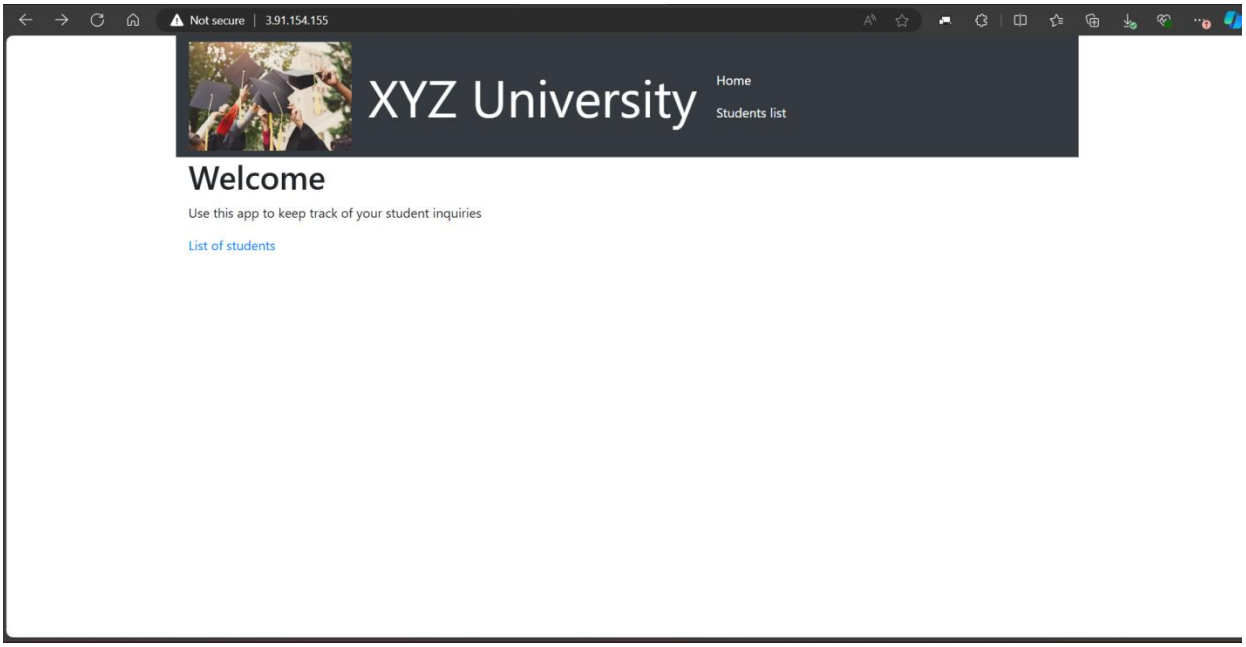
Task 1: Creating a virtual network



Task 2: Creating a virtual machine

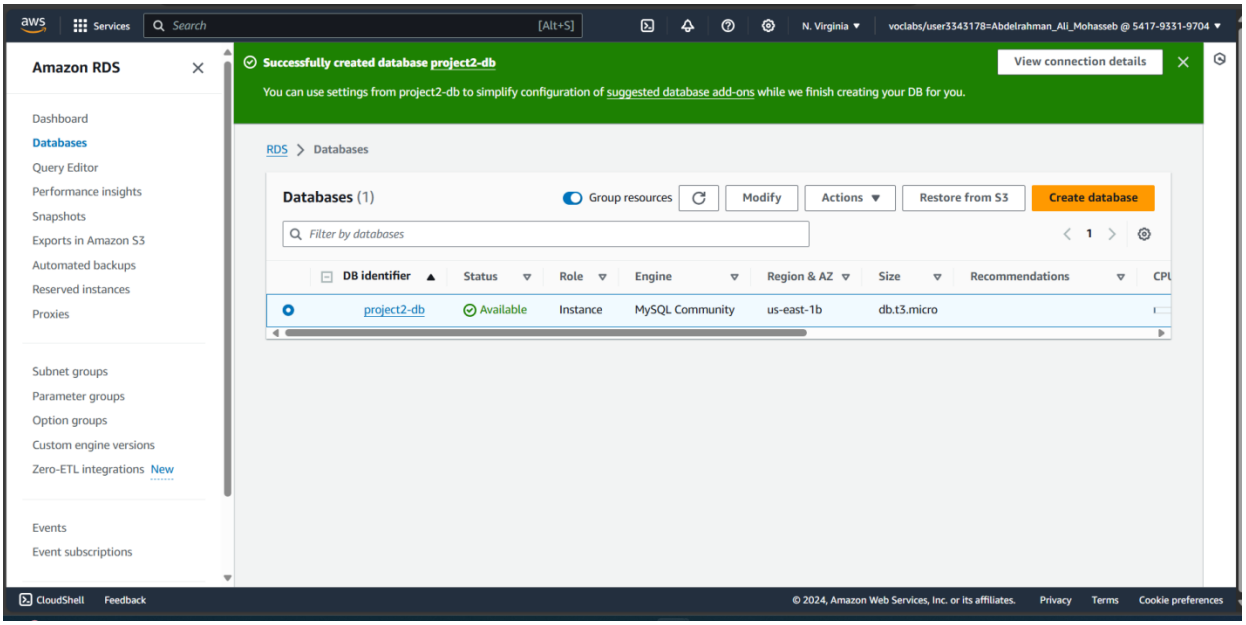


Task 3: Testing the deployment

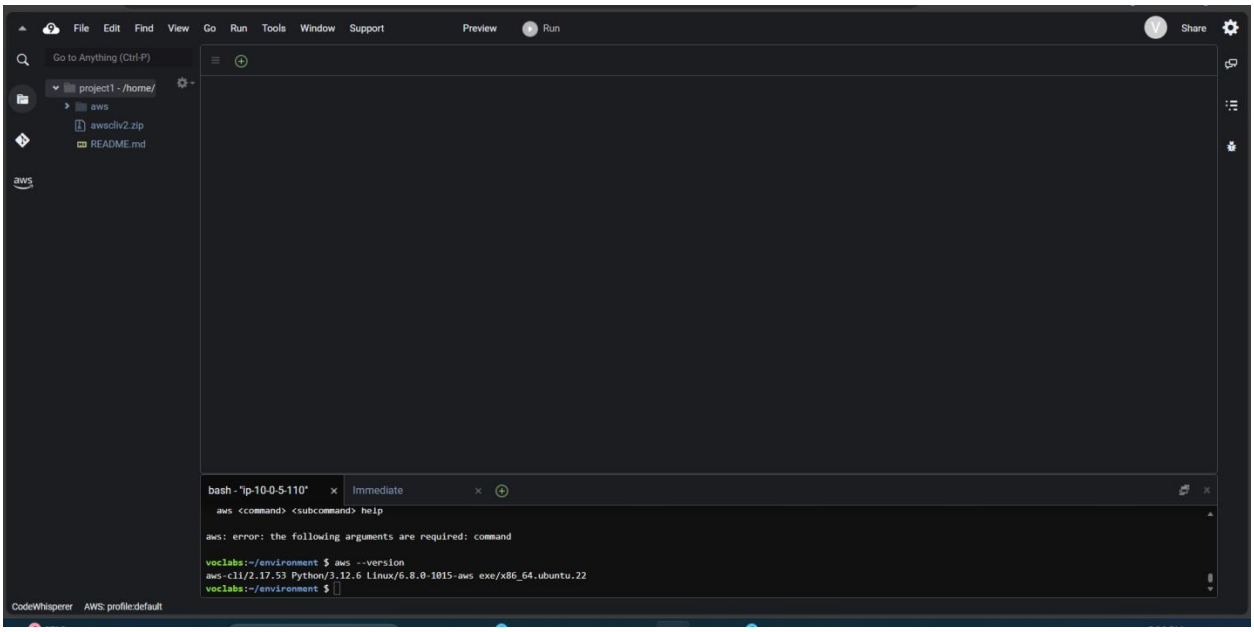


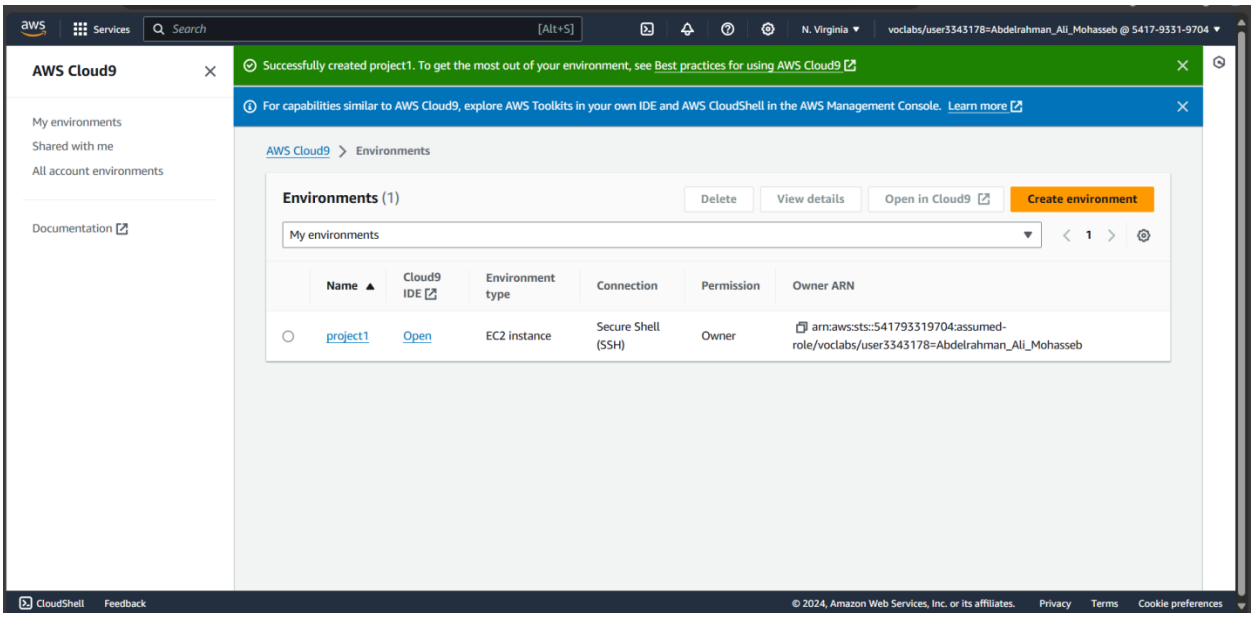
Phase 3: Decoupling the application components

Task 2: Creating and configuring the Amazon RDS database

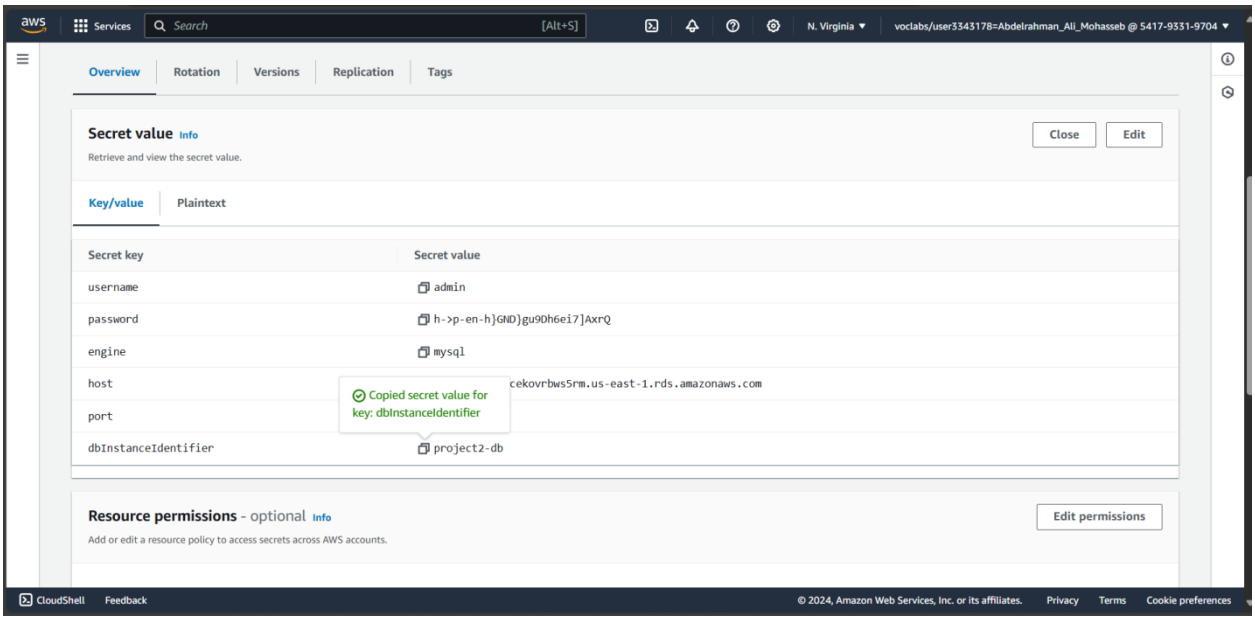


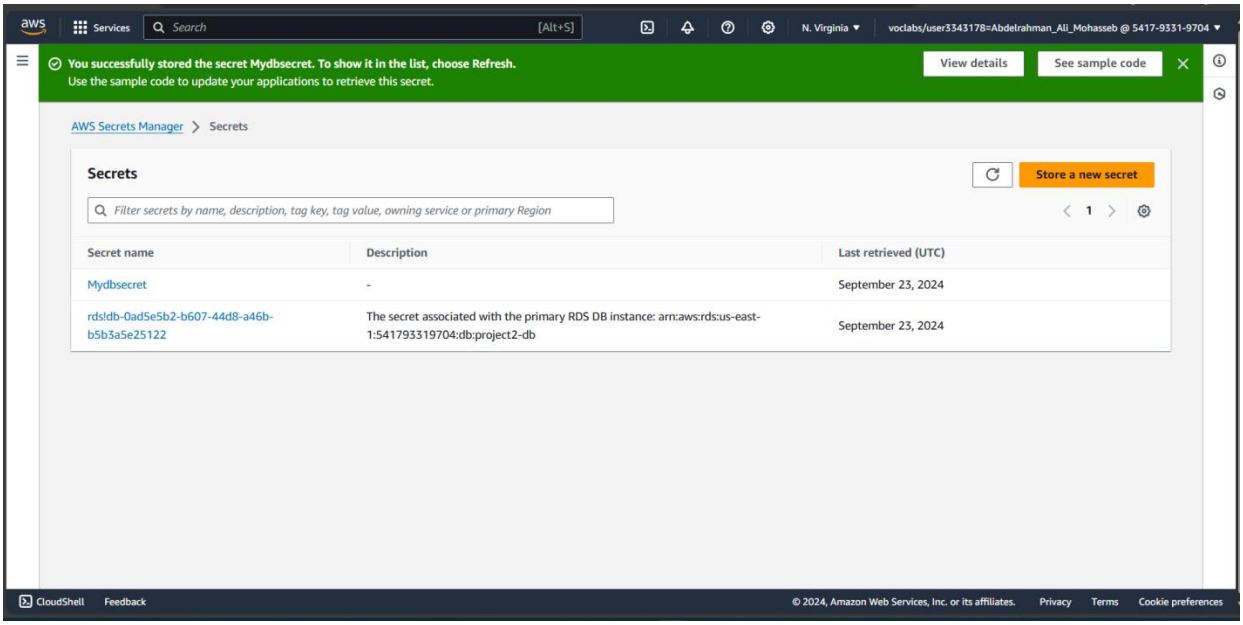
Task 3: Configuring the development environment



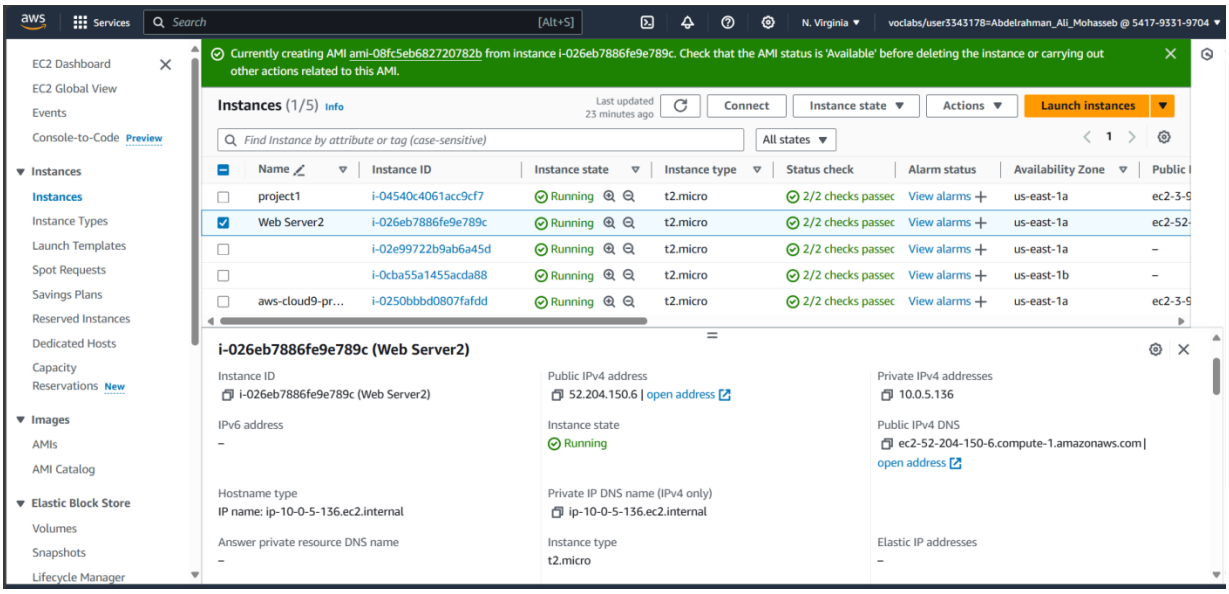


Task 4: Provisioning Secrets Manager

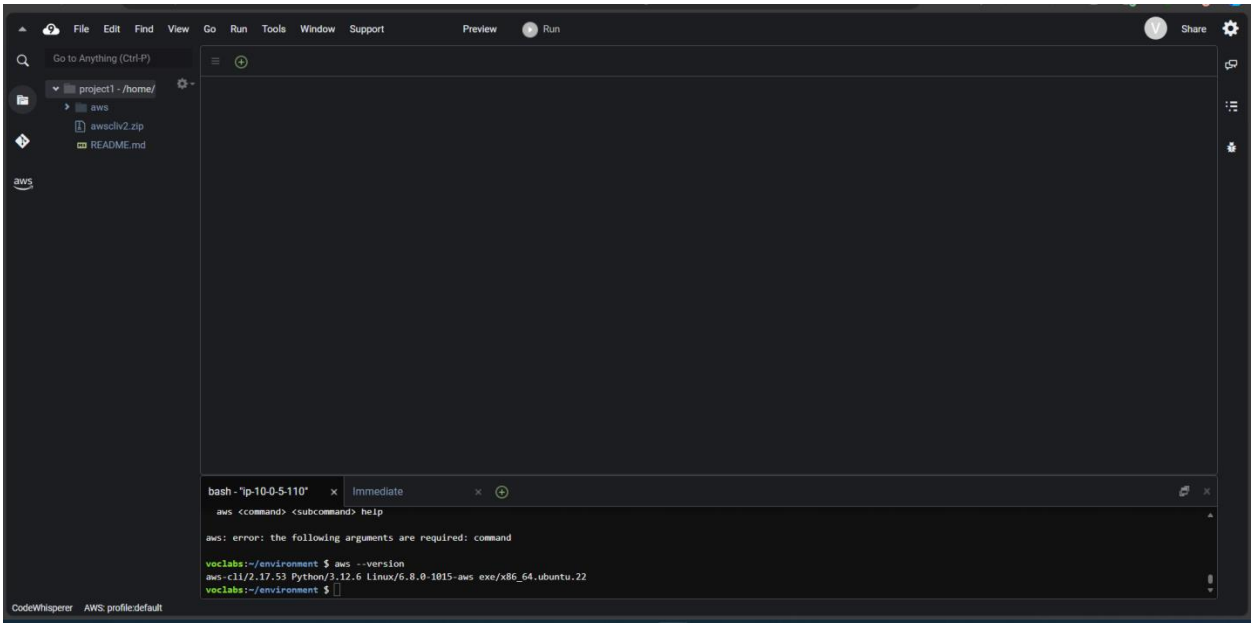




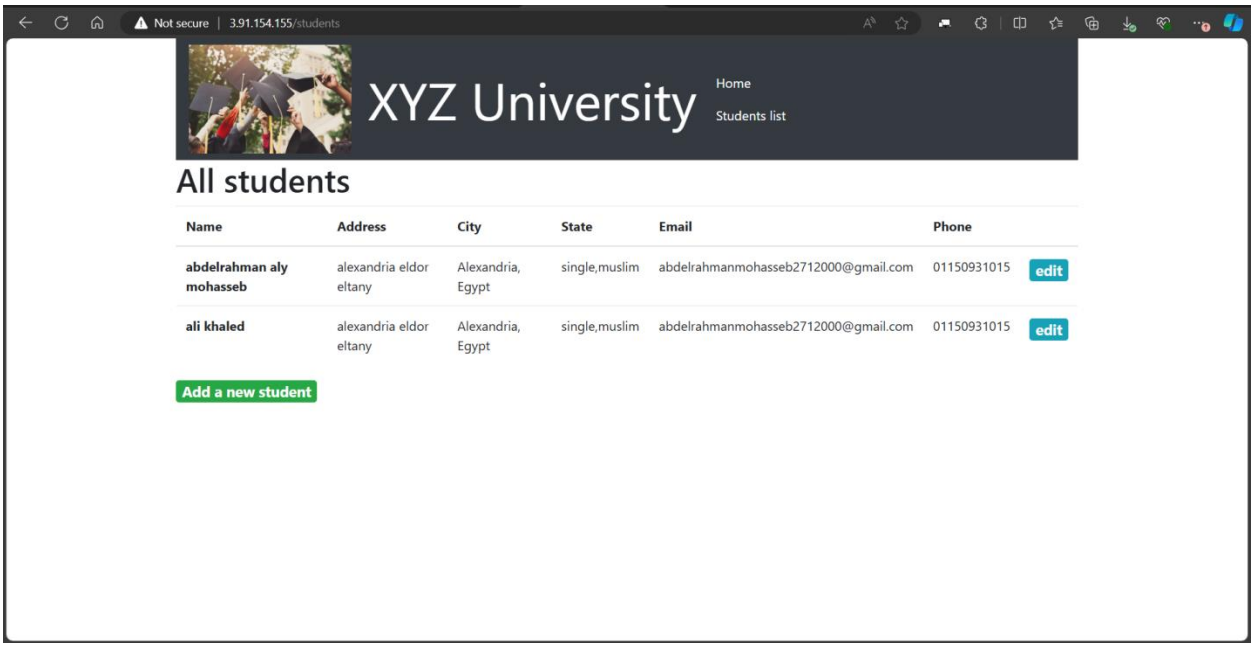
Task 5: Provisioning a new instance for the web server



Task 6: Migrating the database

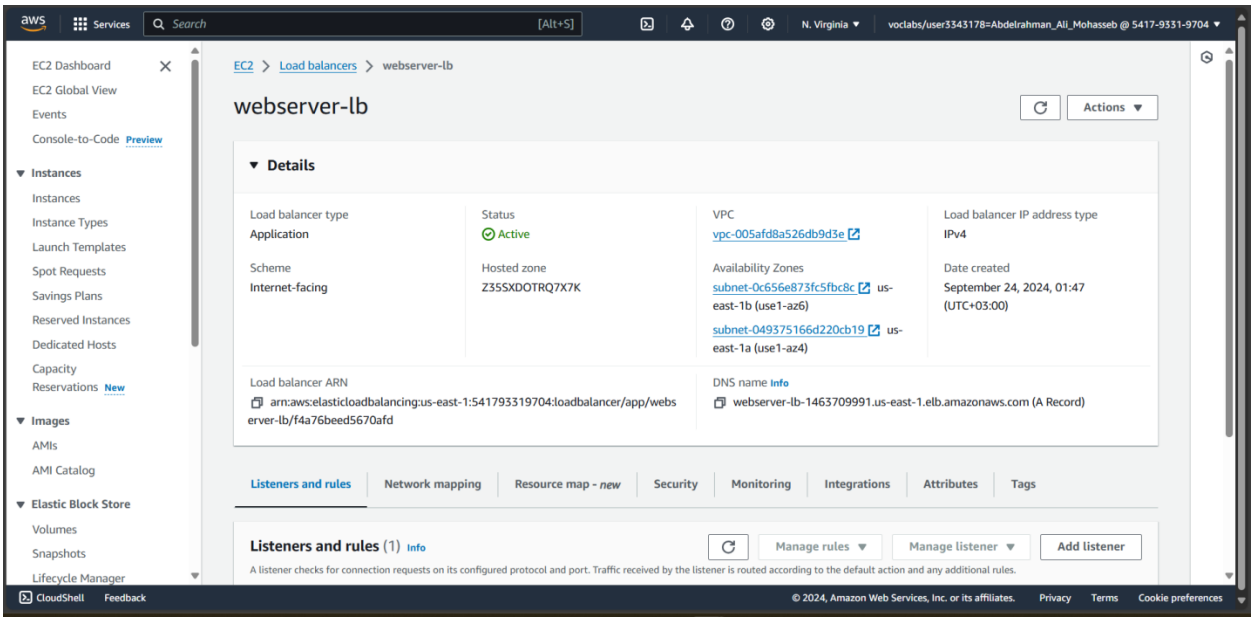


Task 7: Testing the application

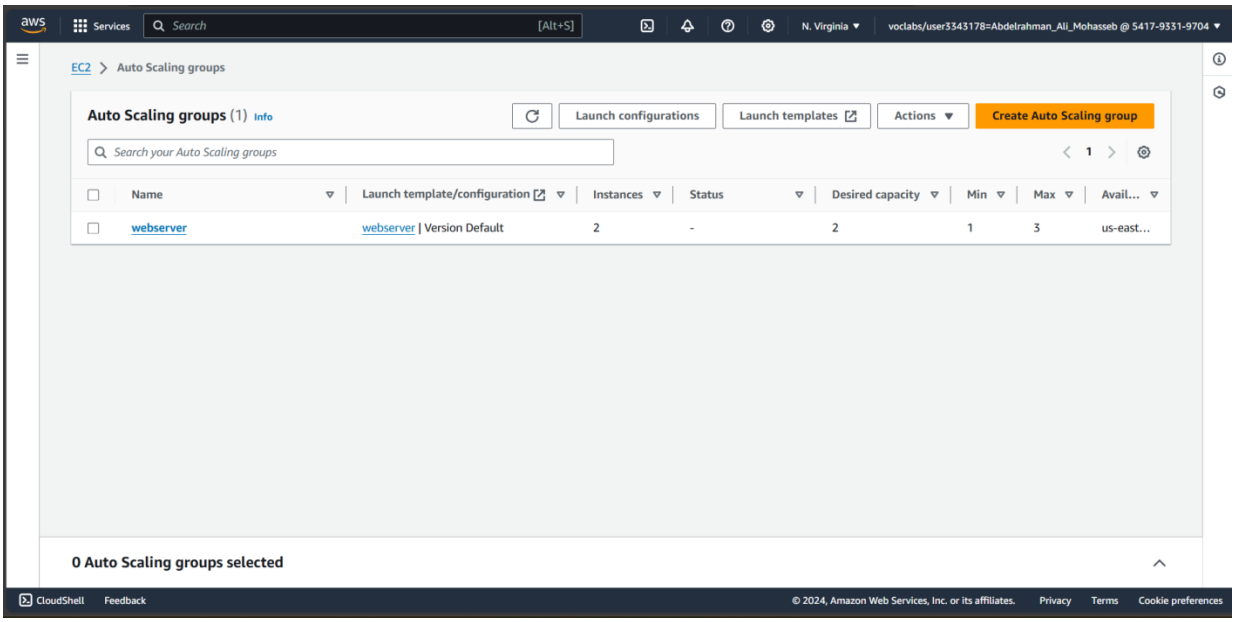


Phase 4: Implementing high availability and scalability

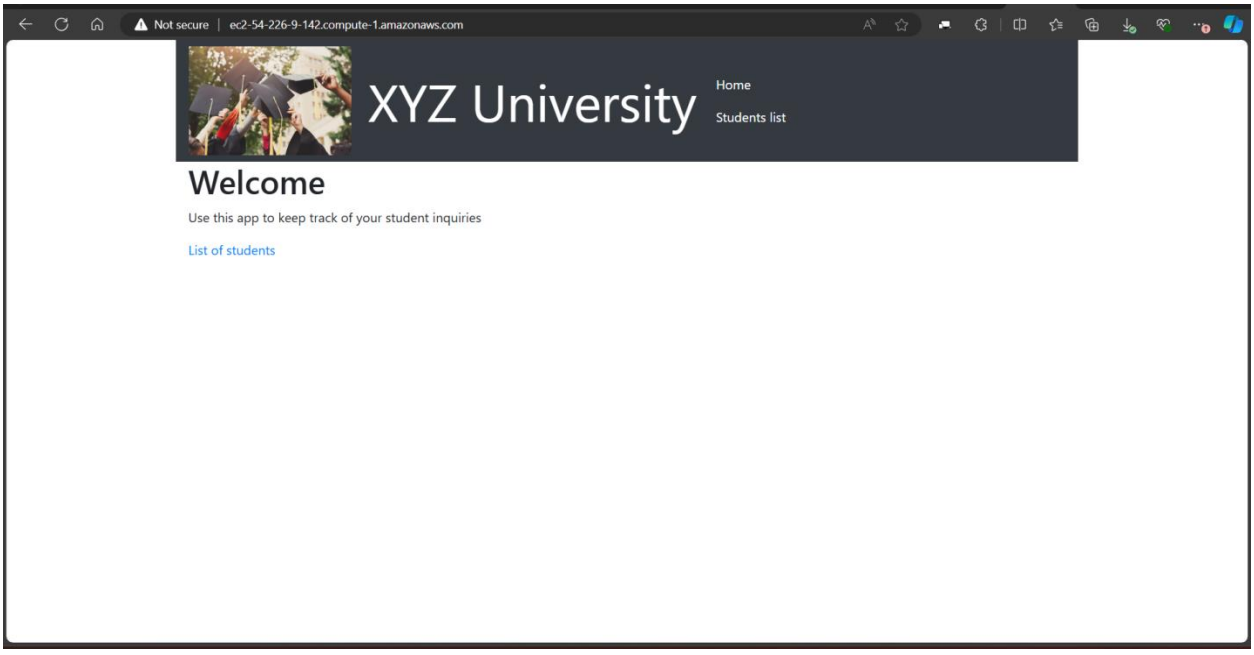
Task 1: Creating an Application Load Balancer



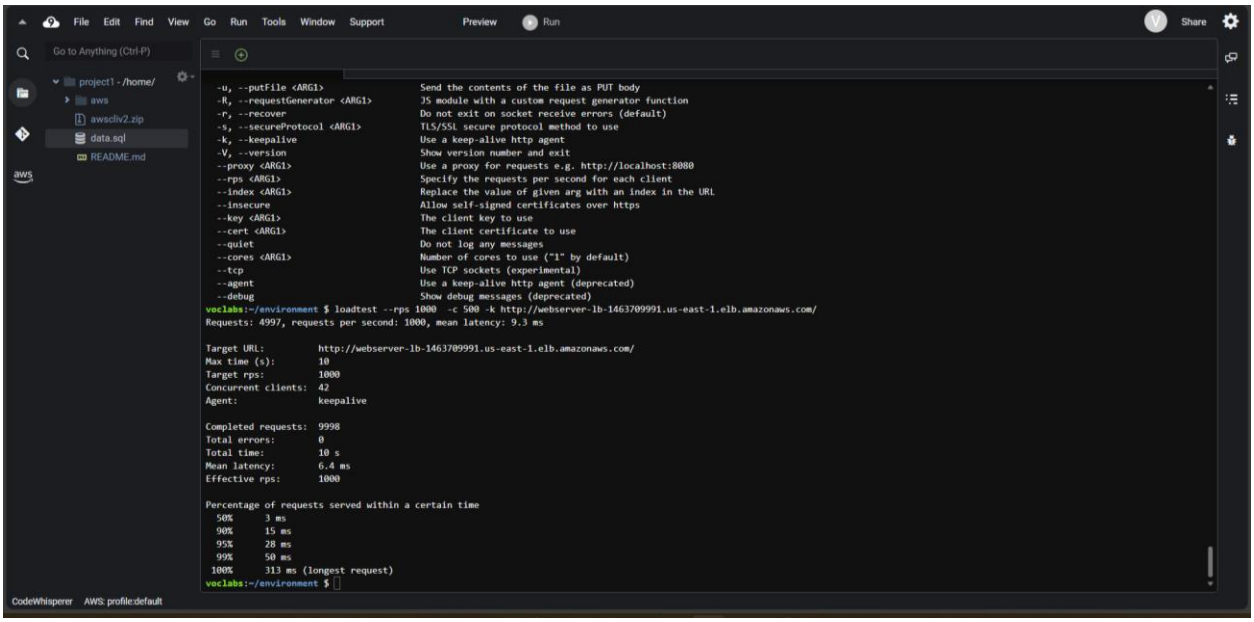
Task 2: Implementing Amazon EC2 Auto Scaling



Task 3: Accessing the application



Task 4: Load testing the application



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