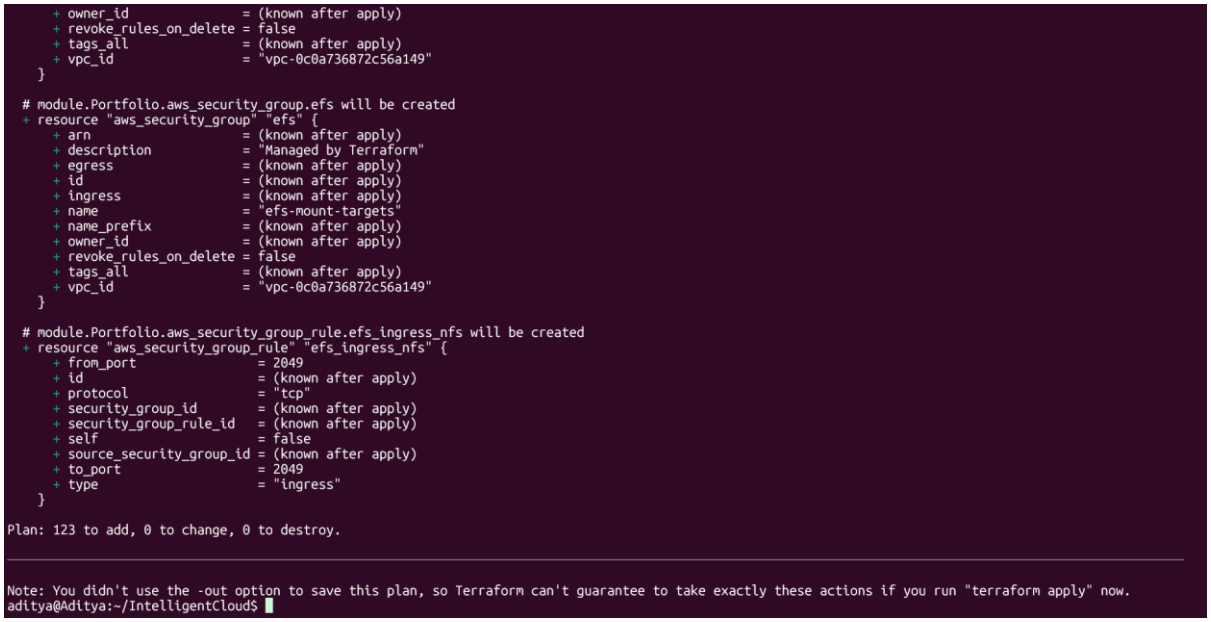
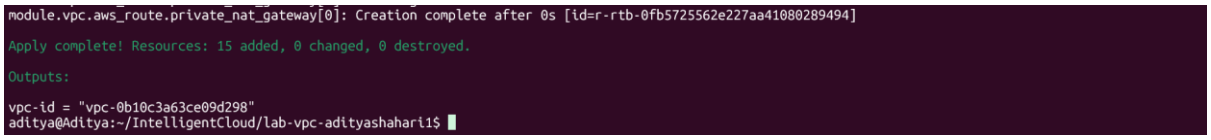
(Task 1)

Screenshot of Terraform output which refers to the Lab: Storage resources using a module.module_name prefix



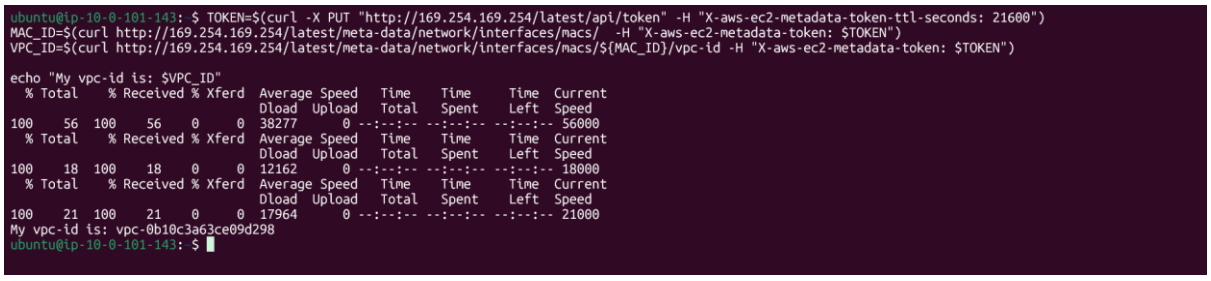
(Task 2)

Screenshot of the VPC ID in Terraform outputs



(Task 3)

Screenshot of the script outputting VPC ID

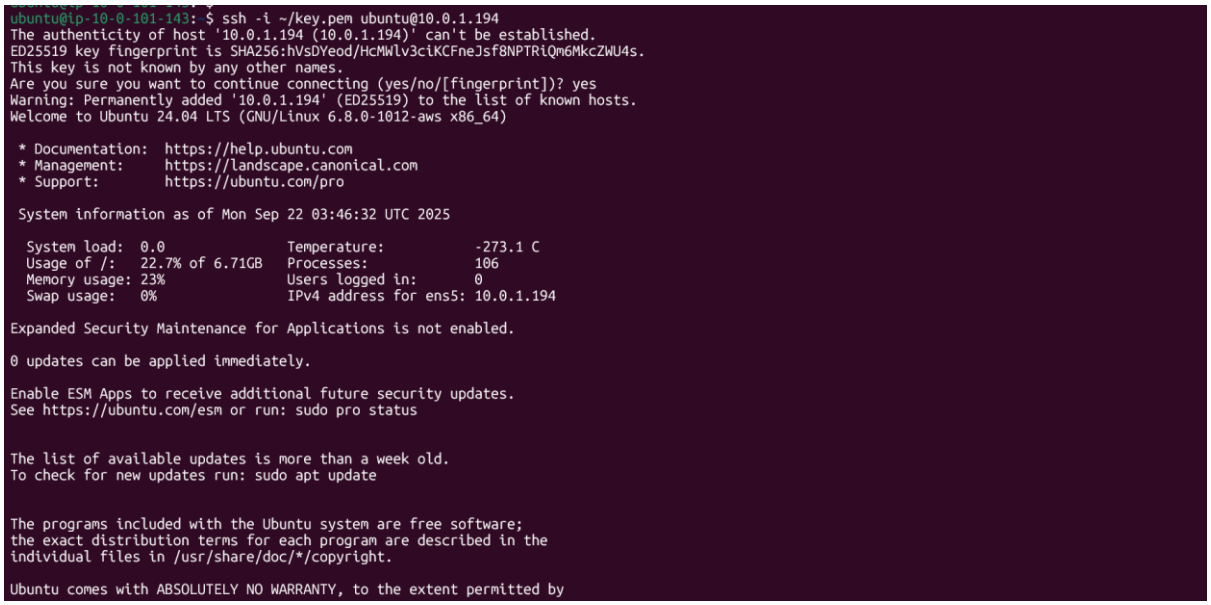


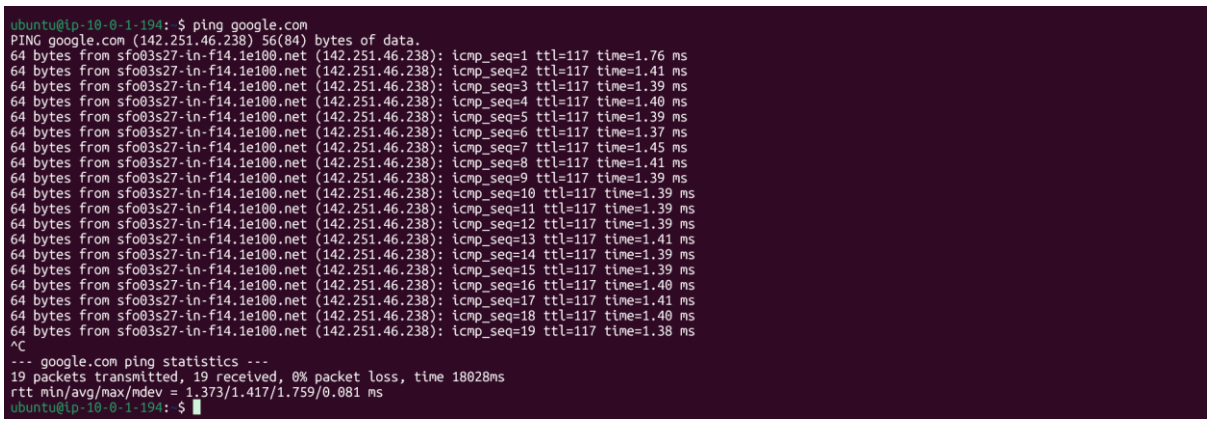
(Task 4)

Screenshot of the ping successfully hitting the private IP address

(Task 5)

Screenshot of the successful SSH into private instance and screenshot of ping hitting google.com





1. One of the pain points of this lab was copying over old code from Lab: Compute and modifying some hard coded values to adjust it to our needs. Use what you learned from the self-study articles and today's lab to propose a cleaner way to create the EC2 instances and security groups.

Ans -

Copy-pasting old code was messy. A cleaner way is to use variables and modules instead of hard coding. For example, an EC2 module could take subnet_id, sg_ids, and name as inputs. Then creating a public or private instance is just a module call with different values. This keeps the code reusable, consistent, and much easier to maintain.

2. The VPC module automatically creates route tables for the subnets. What is the destination for the route to external traffic in the route table associated with the private subnet?

Ans -

The private subnet’s route table sends all external traffic (0.0.0.0/0) to the NAT Gateway. This lets instances in the private subnet reach the internet, while still preventing inbound connections from the outside.