Terraform Task

VPC 10.0.0.0/16
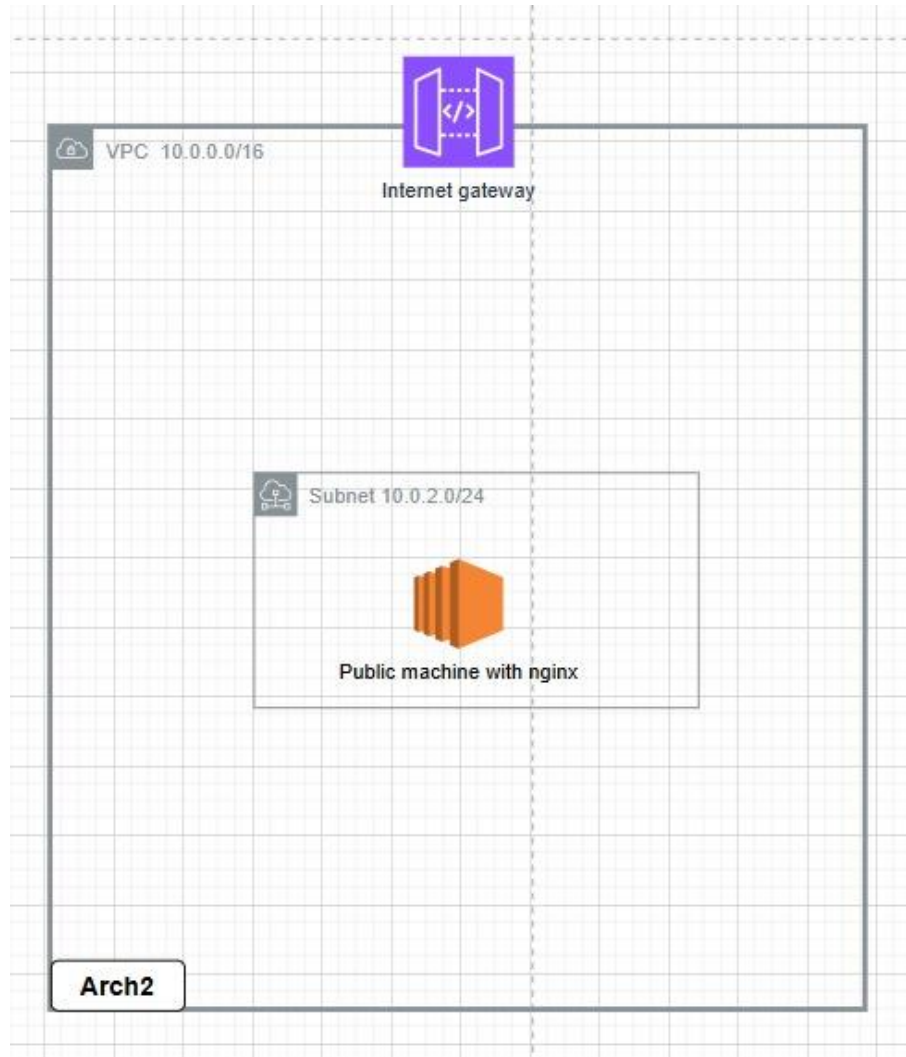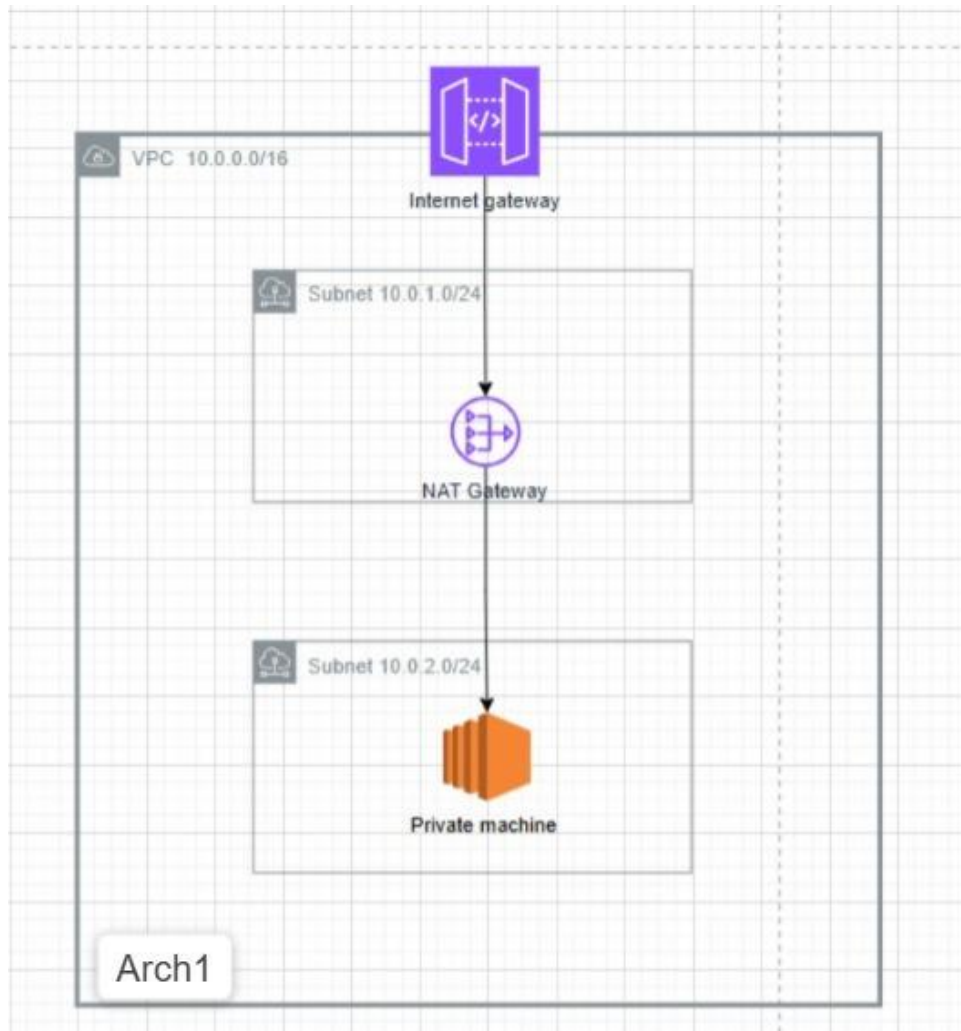
Internet gateway

Subnet 10.0.2.0/24

Public machine with nginx

Arch2

1. Create Arch1* using Terraform and ensure all variables are managed using a *.tfvars* file.

2. Research Terraform modules and explore how they can be used for better reusability and maintainability.

3. Using a module, create *Arch2* and install *Nginx* on the machine using Terraform.

4. Collaborate with your teammate: Since your teammate will contribute to *Arch2, find the proper way to **share the state file* and implement it.

5. Destroy Arch1 using only the Terraform command (terraform destroy) *without deleting the EC2 instance*. You are not allowed to edit any Terraform files.

6. Arch1: Prevent NAT Gateway deletion – Research and implement a method to *prevent the NAT Gateway from being deleted* even when running terraform destroy.