**ASSIGNMENT NO. 01**

**01.**

**● Create one IAM user and one IAM Group using Terraform.**

**● Make sure you will use variables for names of IAM users and Group.**

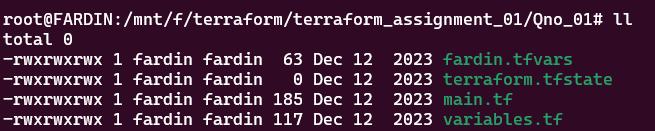
**● Note: - Below files are required.**

**- main.tf**

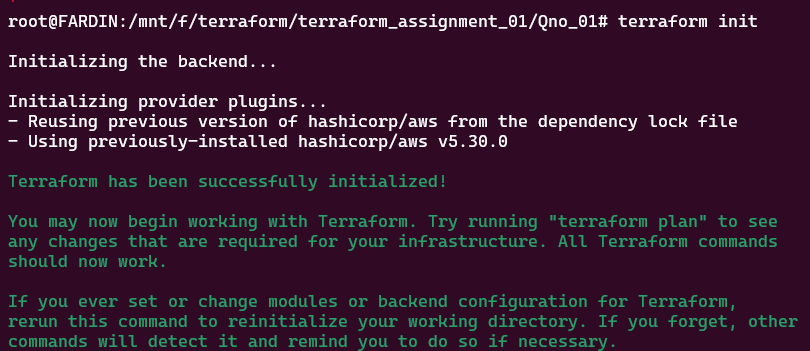
**- variables.tf**

**- your\_name\_custom.tfvars**

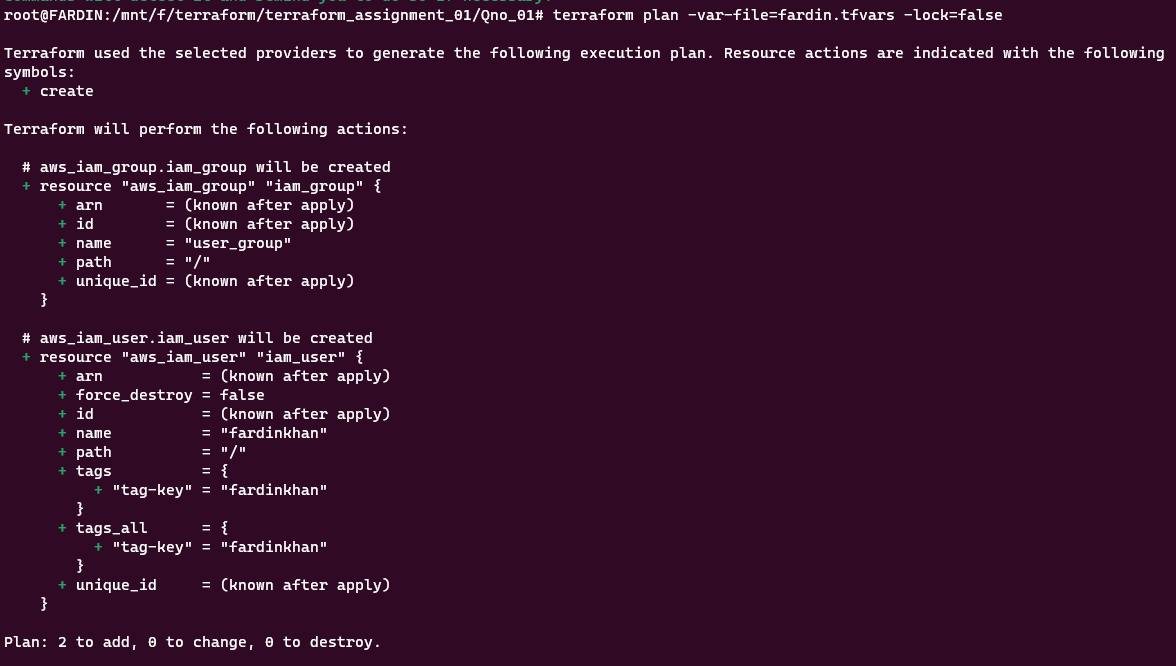
ANS:-



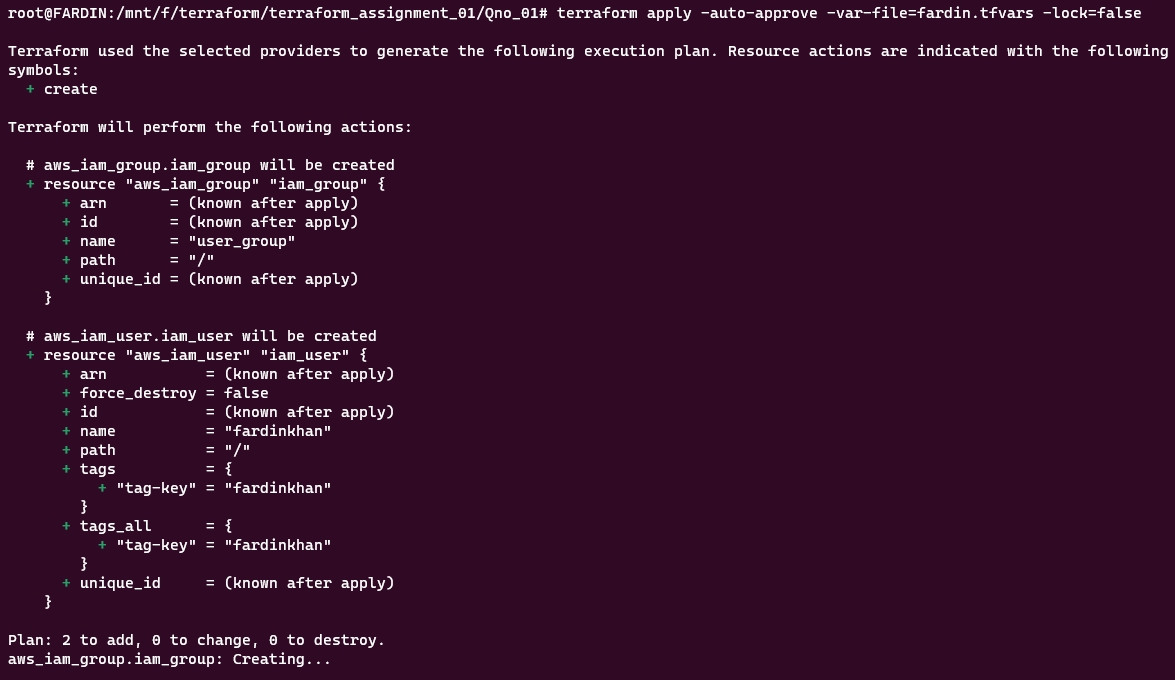
**terraform init**

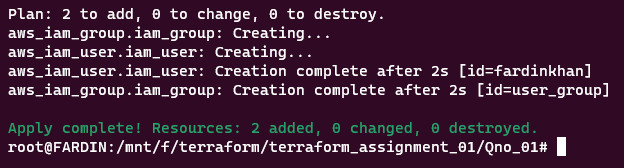


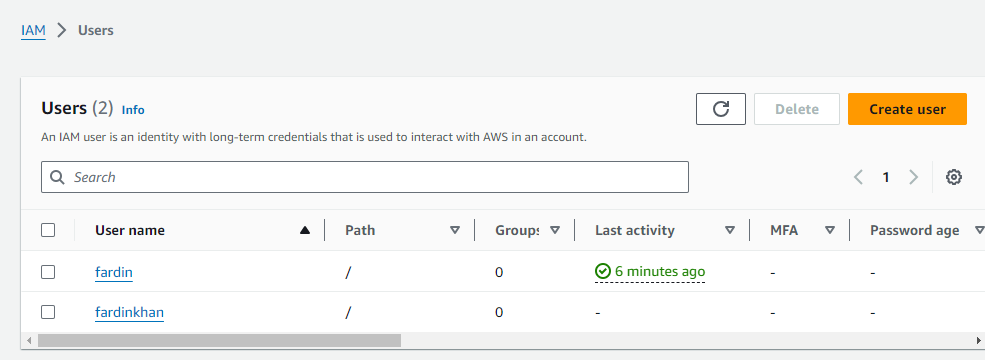
**terraform plan**

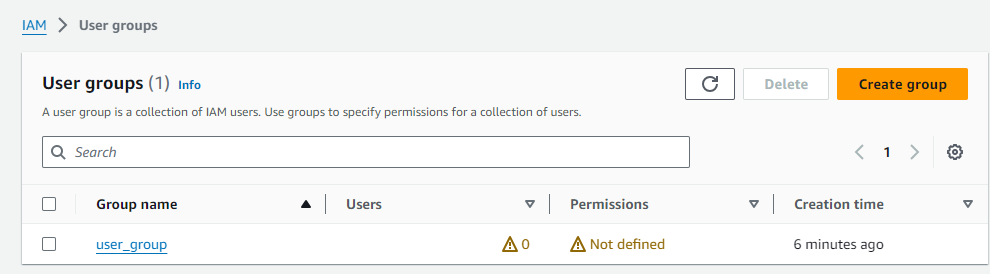


**terraform apply**





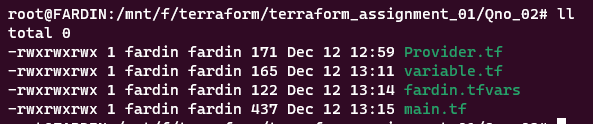




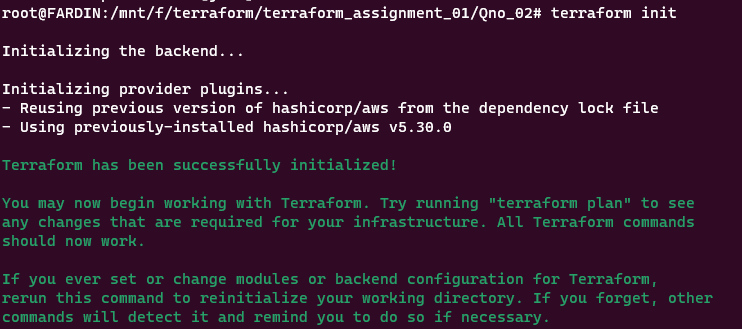
**02.**

**● Create one EC2 Instance and Elastic IP using Terraform**

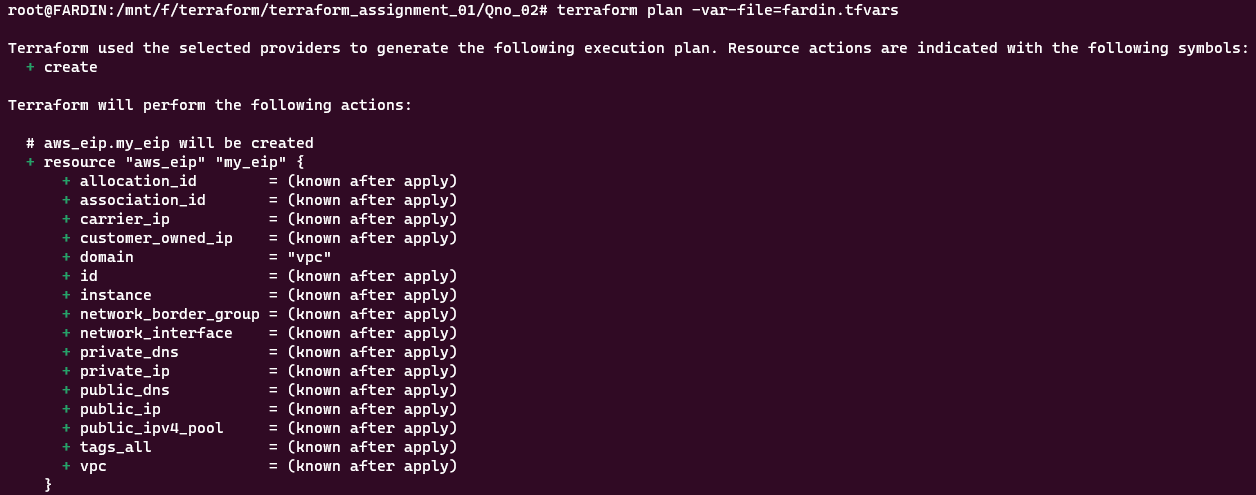
**● Map elastic IP with EC2 instance.**

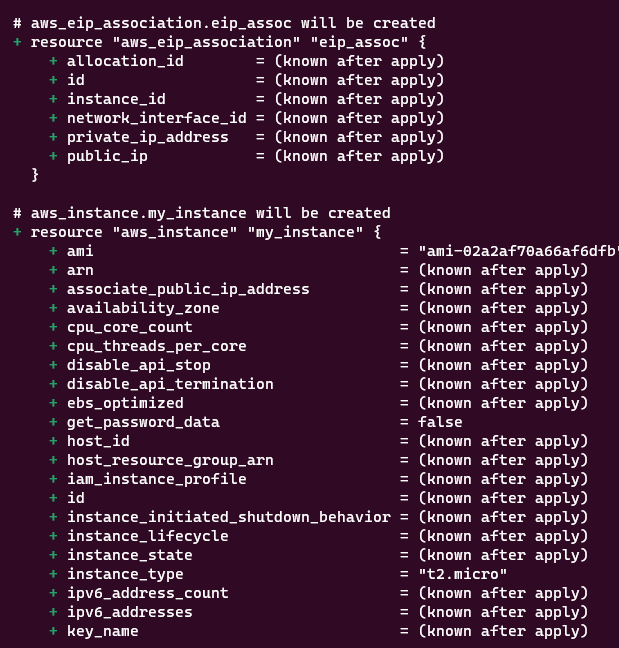


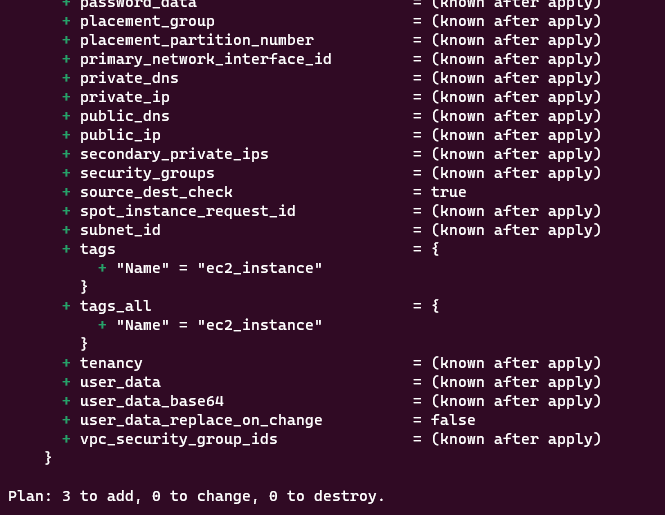
**terraform init**



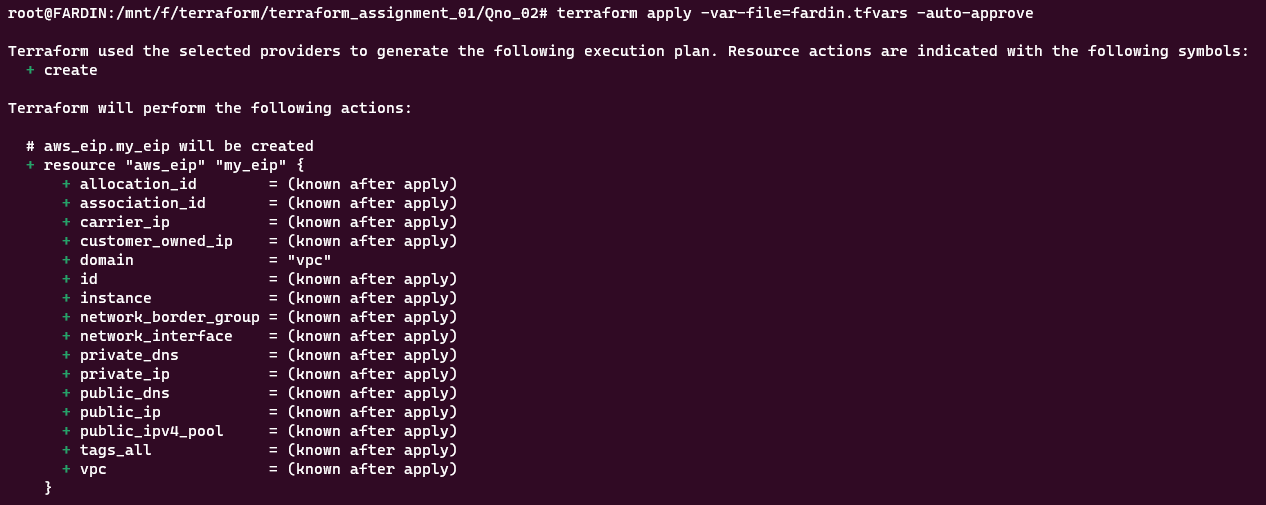
terraform plan



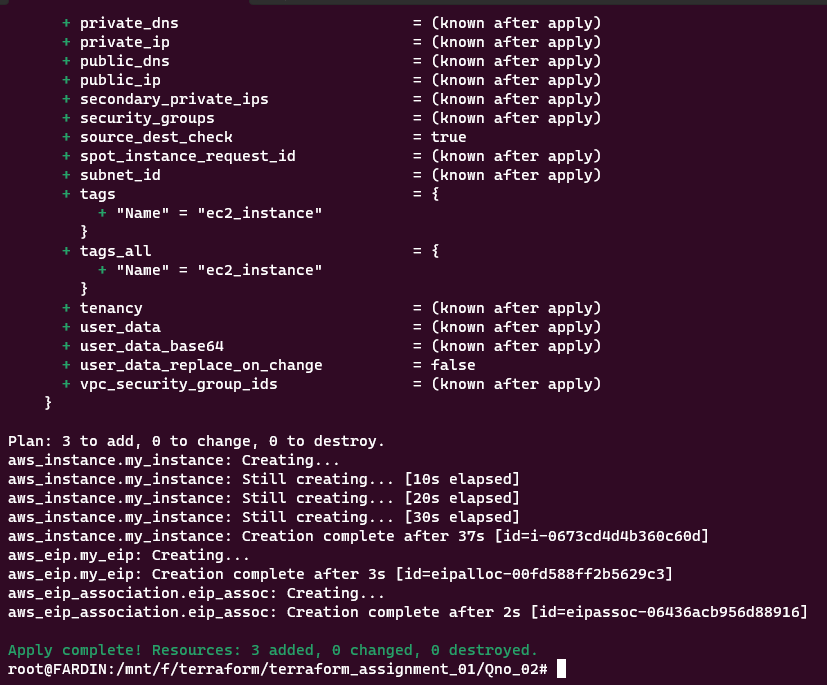


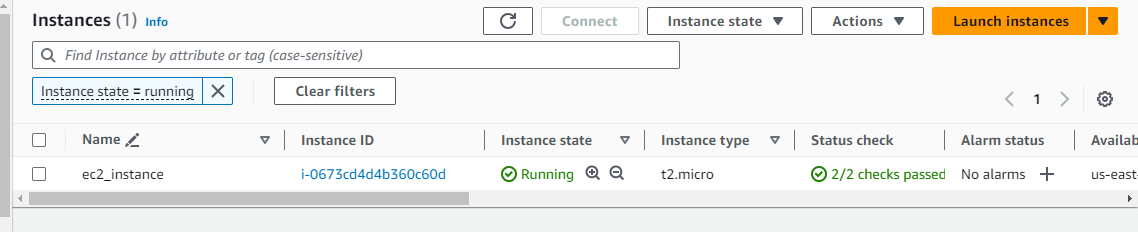


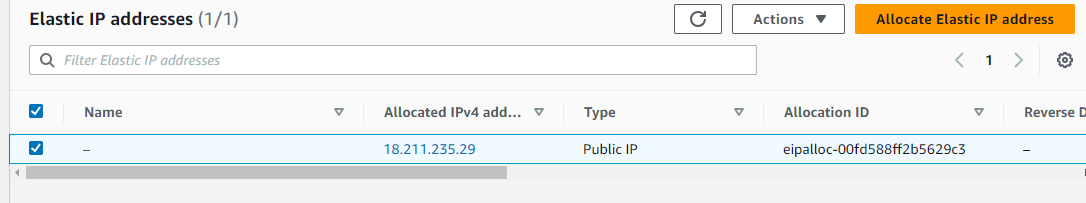
**terraform apply**

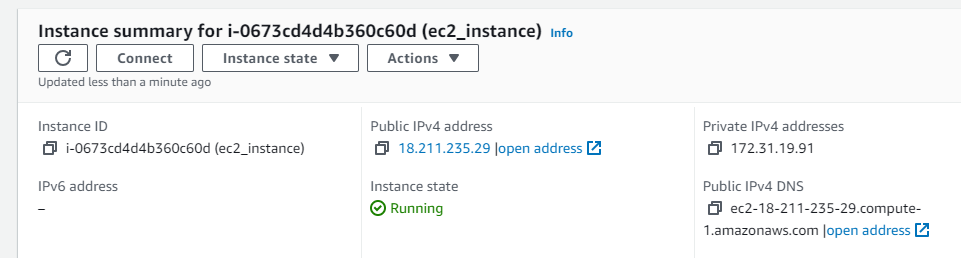












**03.**

**● Create AWS VPC with Terraform.**

**● Please follow the given link for more on AWS VPC creation.**

**1. Create a VPC.**

**2. Create 2 Public Subnet & Create 2 Private Subnet.**

**3. Create IGW (Internet Gateway) & Attach to the VPC.**

**4. Create Public and Private Route Table.**

**5. Add IGW in Public Route table (0.0.0.0/0).**

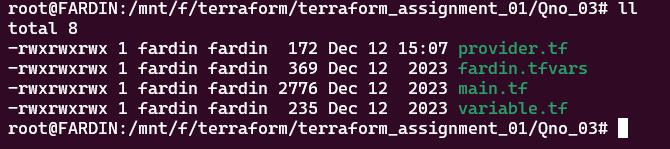
**6. Add Public Subnet (1a & 1b) in Route table.**

**7. Create a NAT Gateway in Public Subnet.**

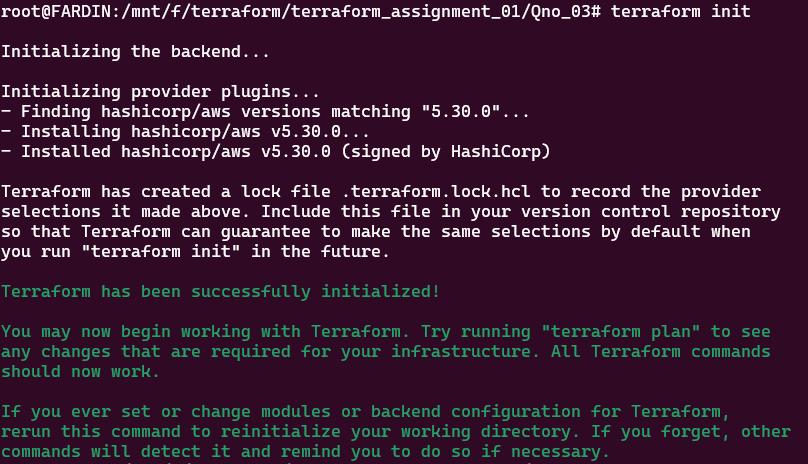
**8. Add NAT GW into the Private Route Table.**

**9. Add Private Subnet in Private Route Table.**

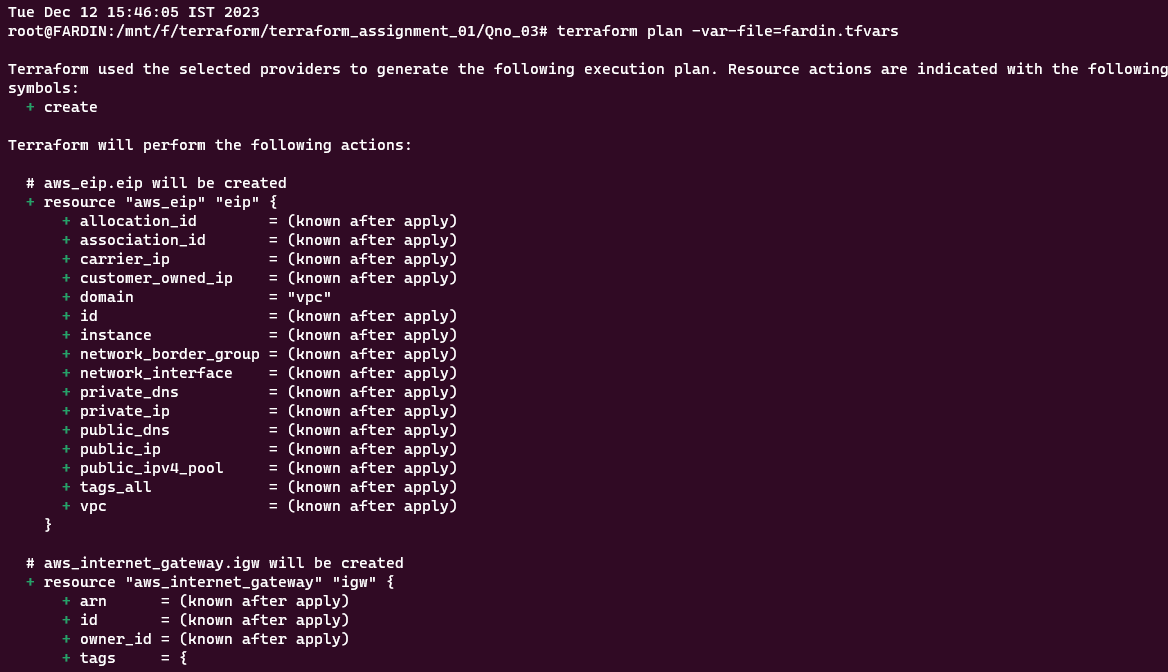
**ANS:-**

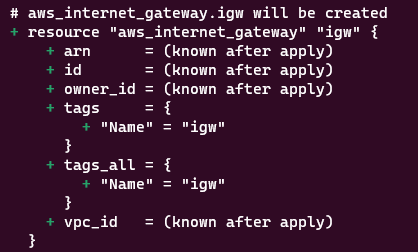
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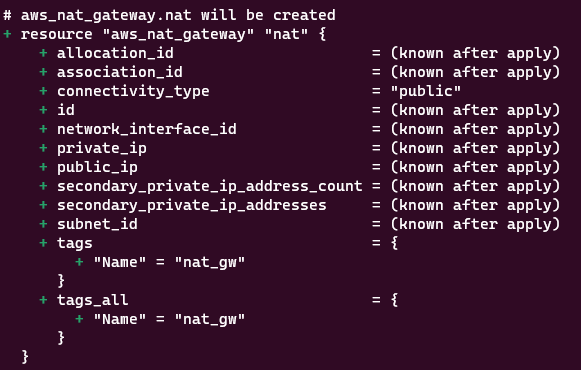
**Terraform init**

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**Terraform plan**

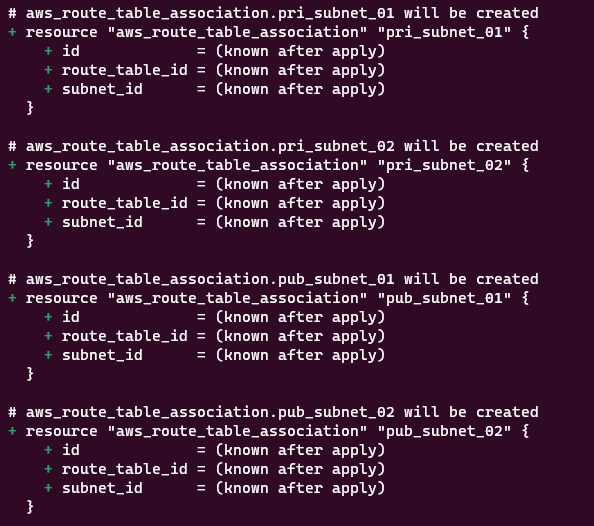
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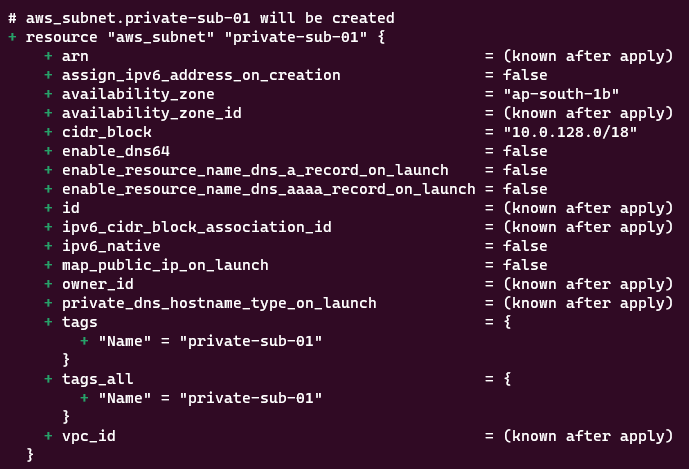
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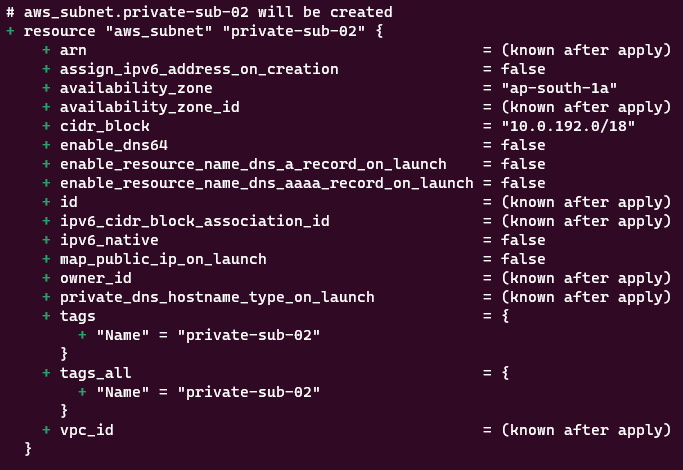
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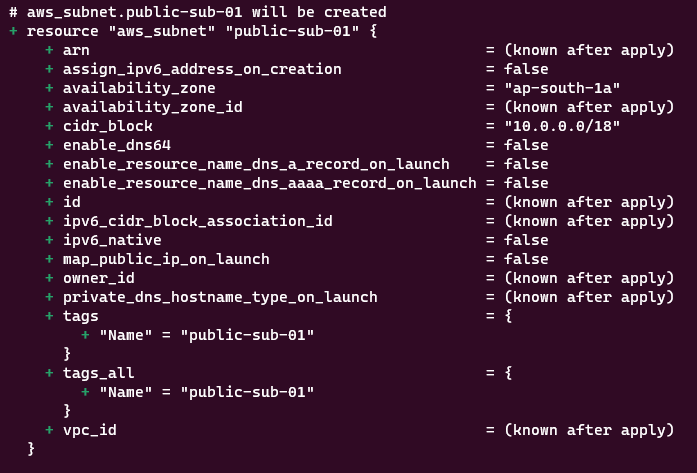
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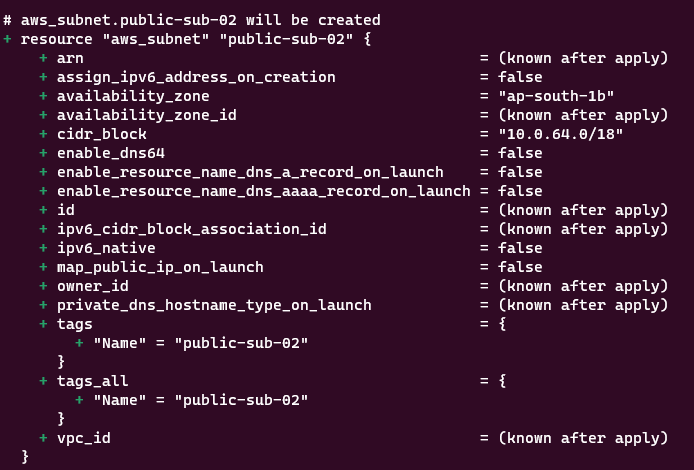
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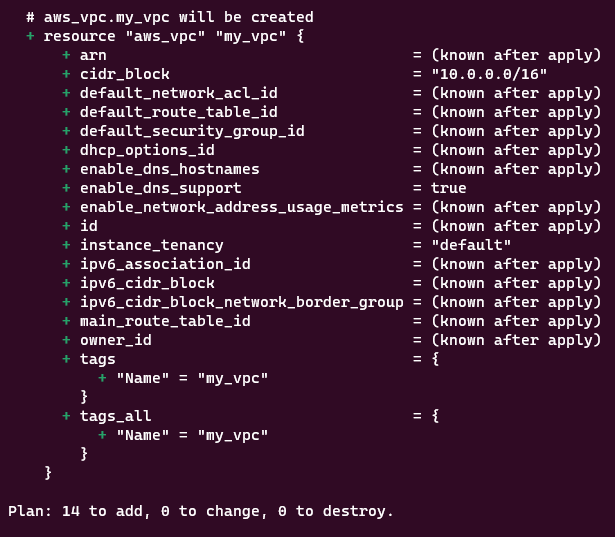
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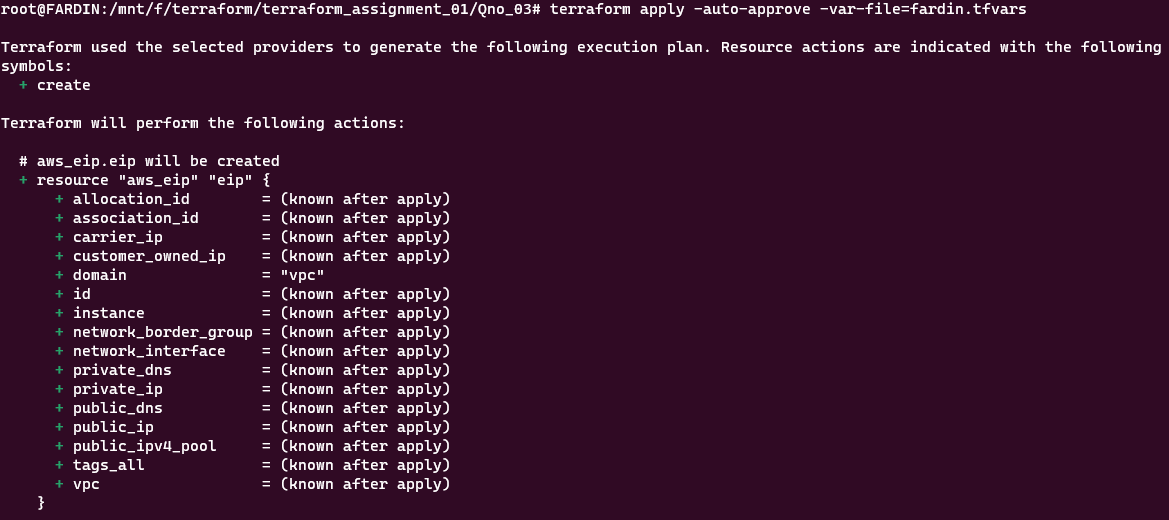
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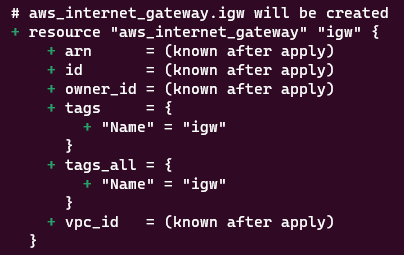
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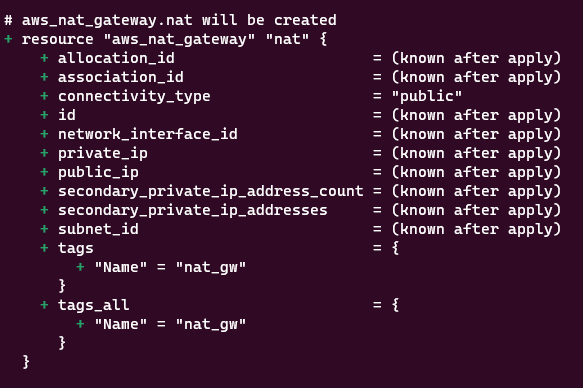
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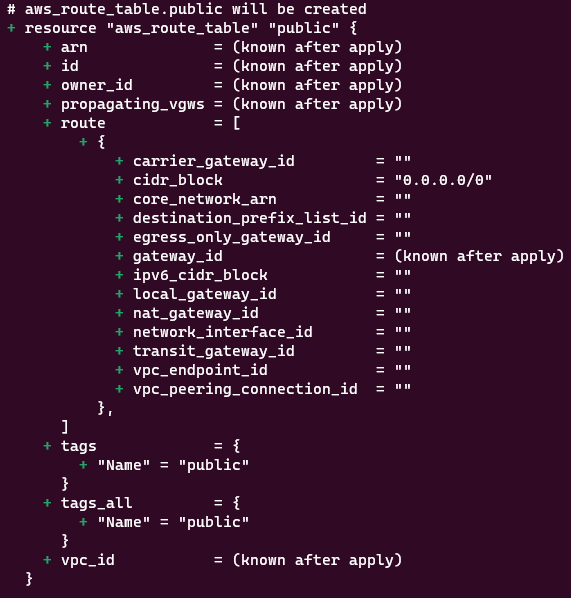
**Terraform apply**

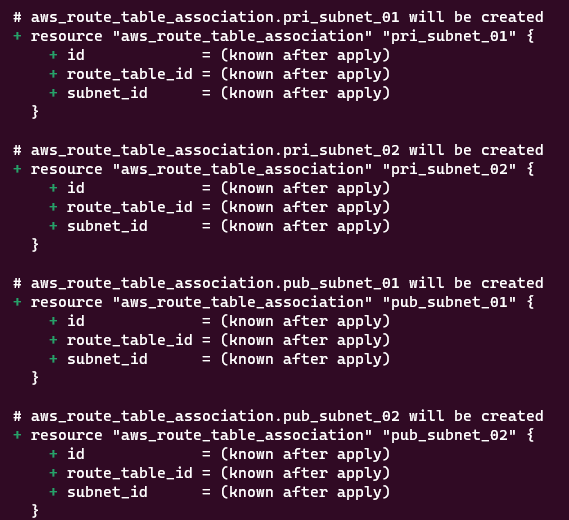
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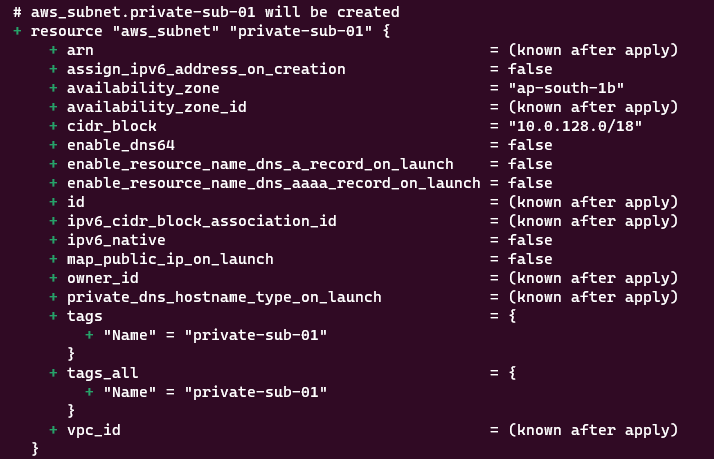
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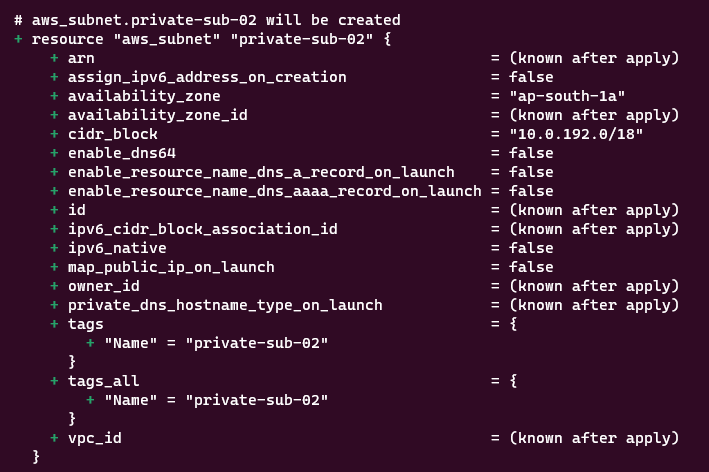
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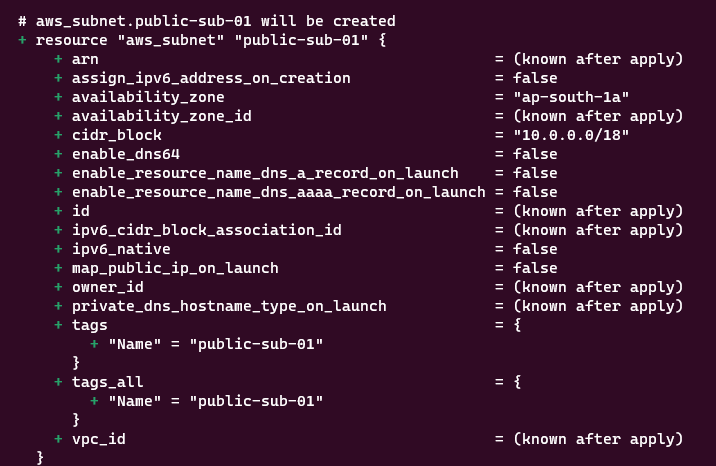
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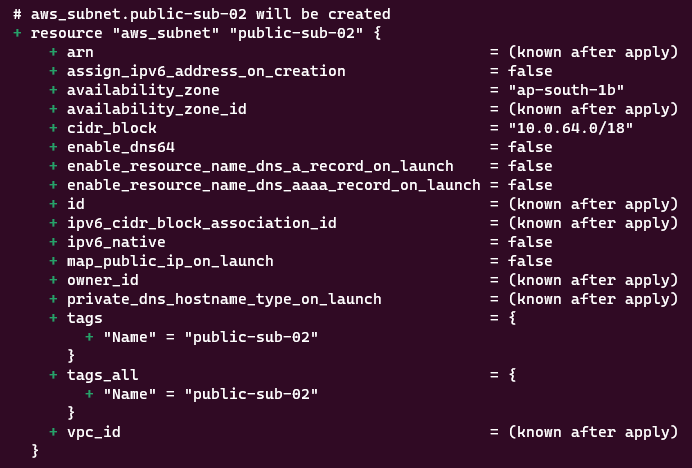
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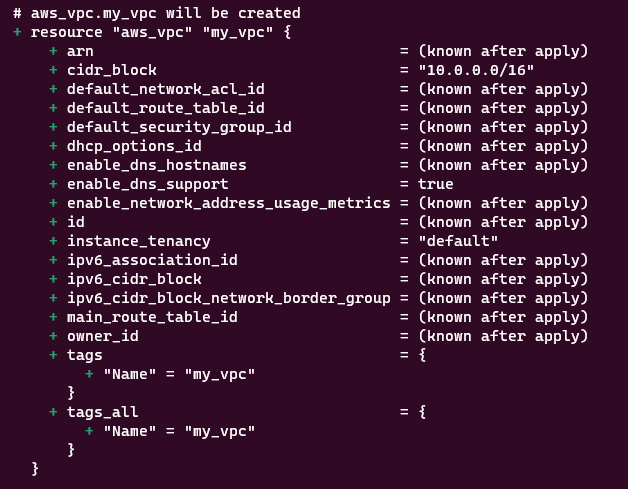
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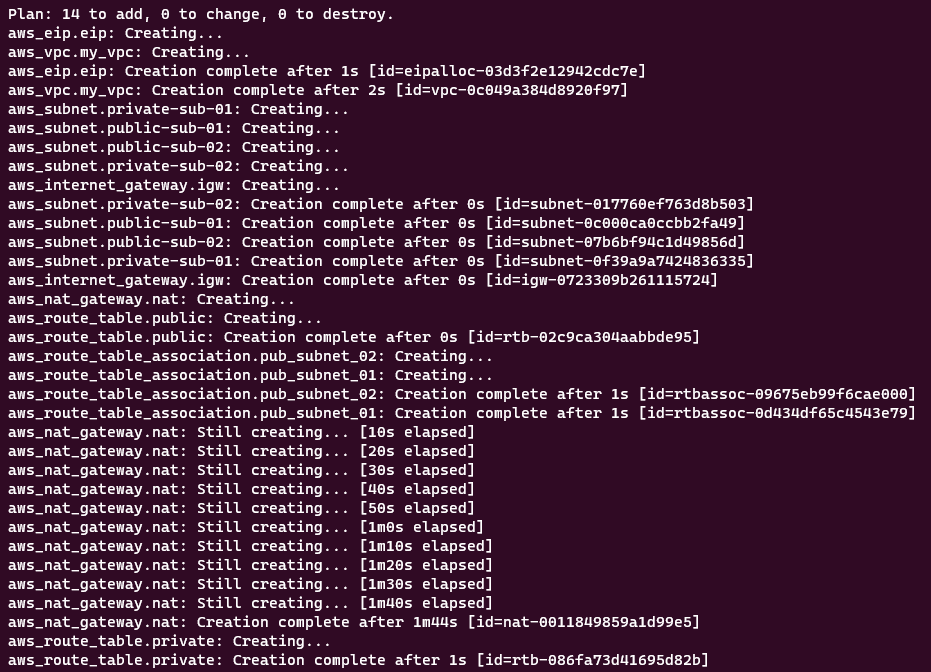
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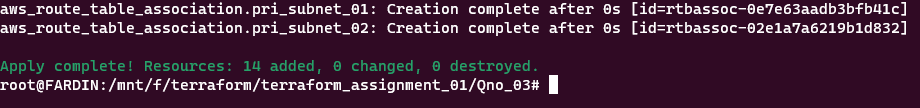
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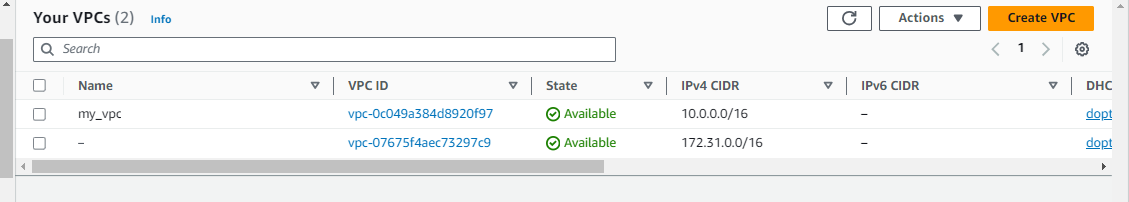
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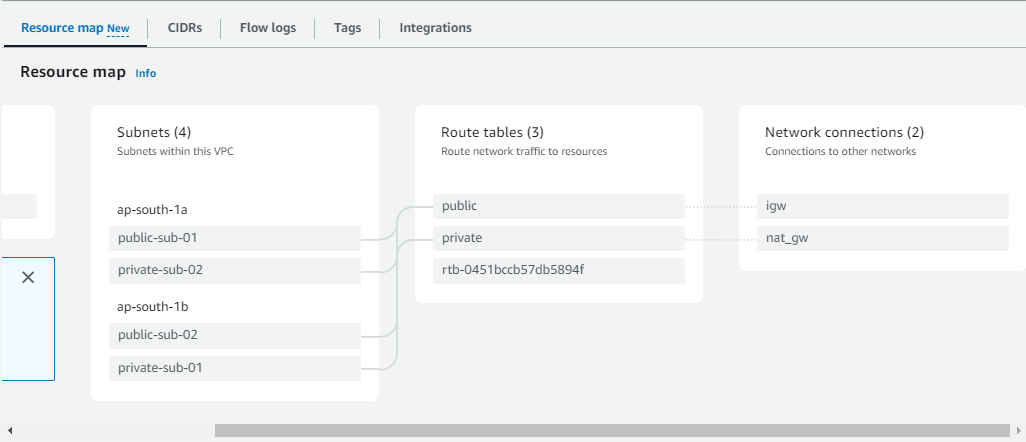
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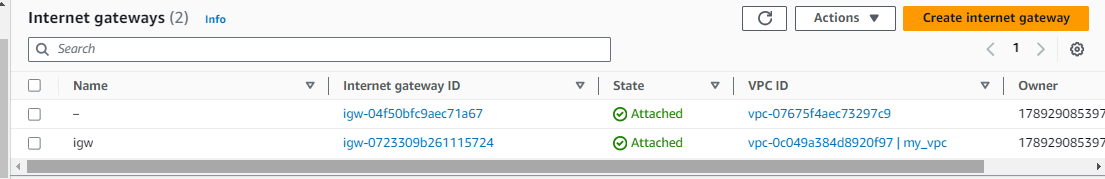
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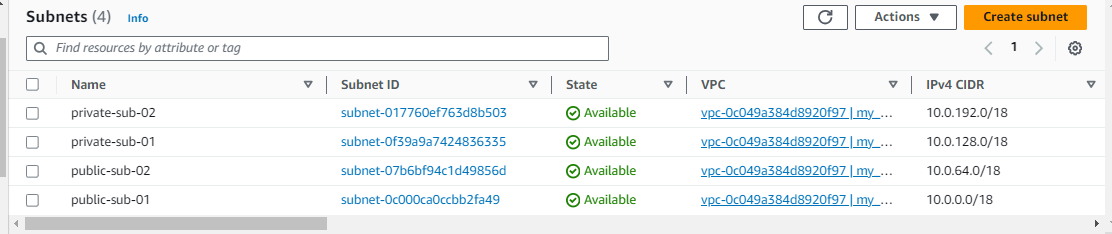
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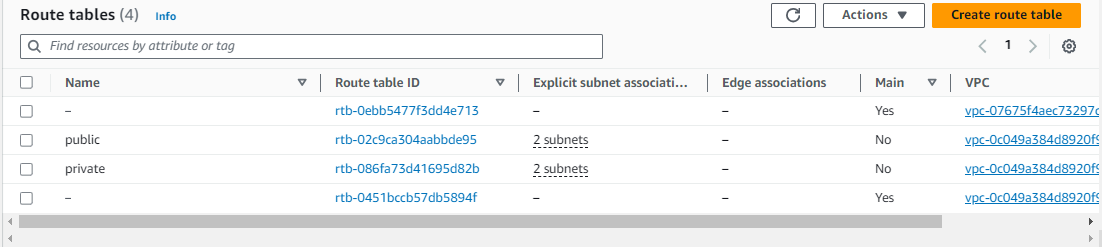
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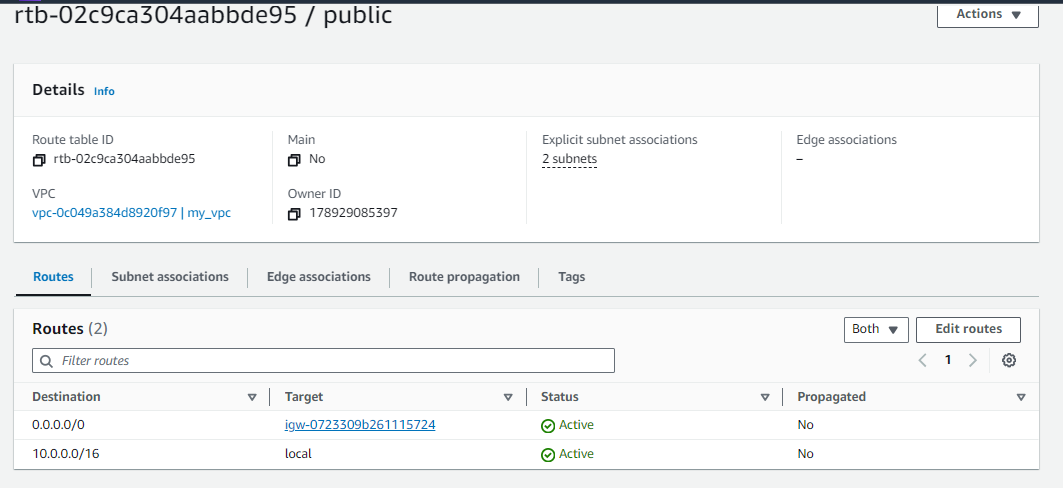
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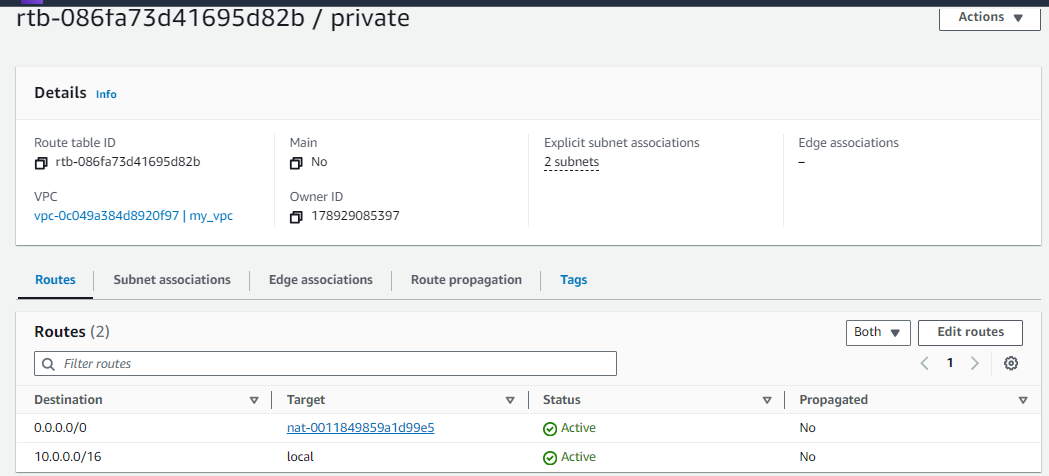
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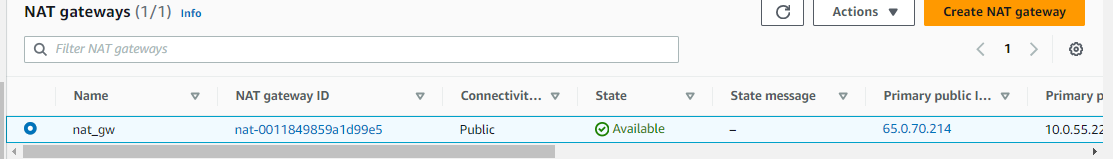
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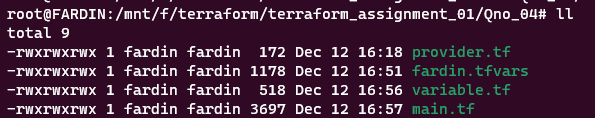
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**04.**

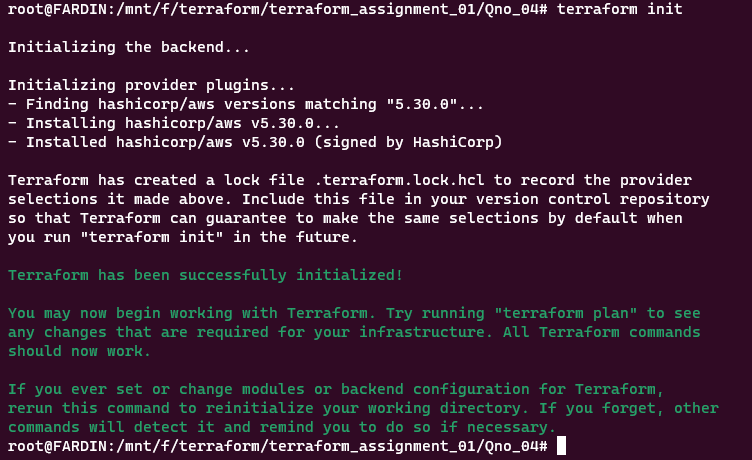
**● Create EC2 instance one of the public Subnets of VPC that you have created**

**● Validate your Connection using SSH.**

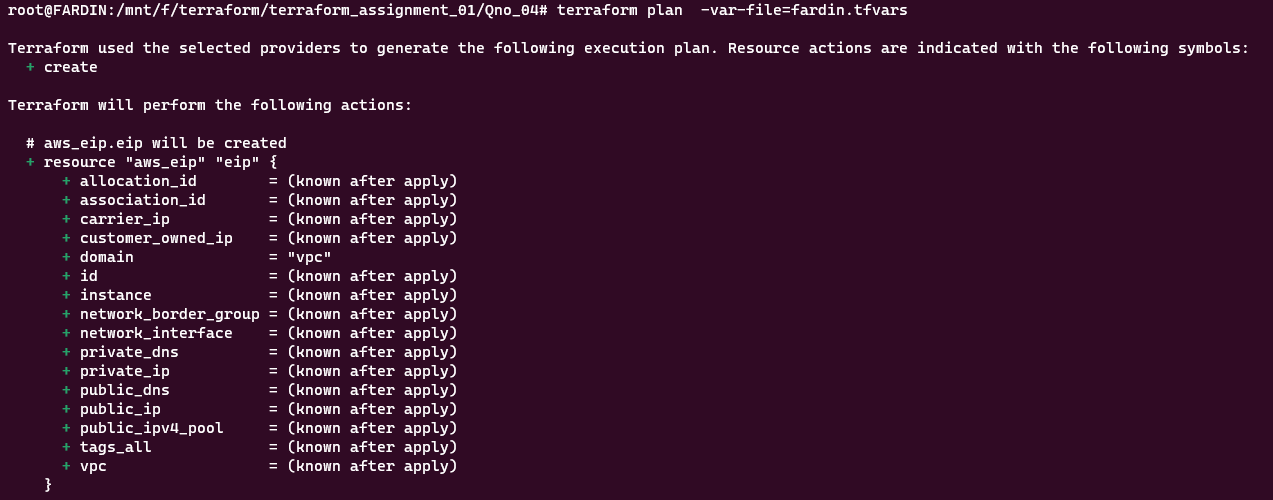
**ANS:-**

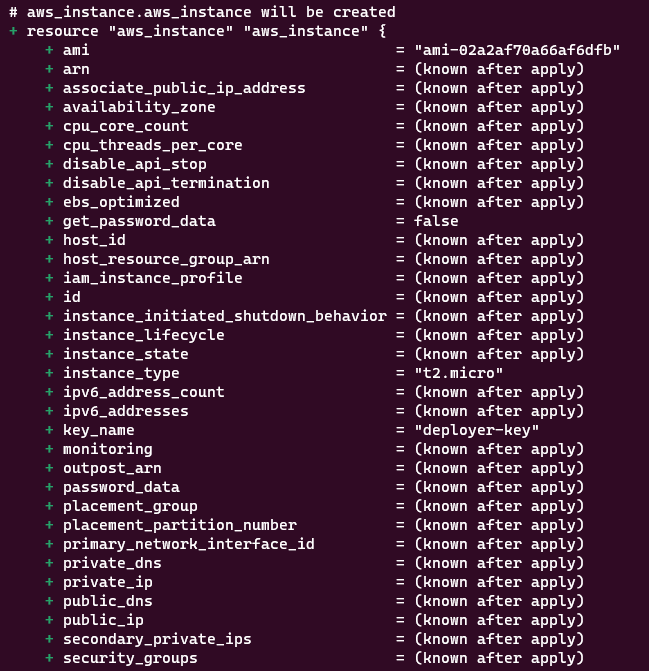
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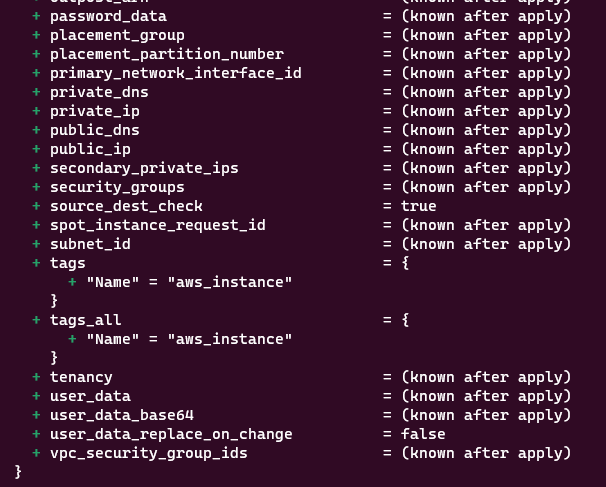
**Terraform init**

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**Terraform plan**

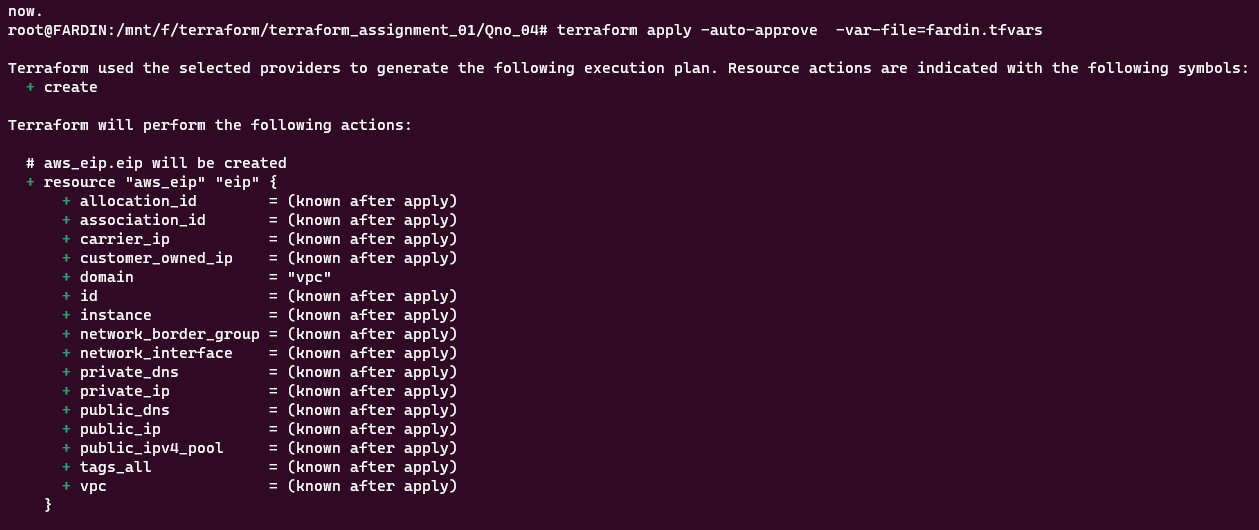
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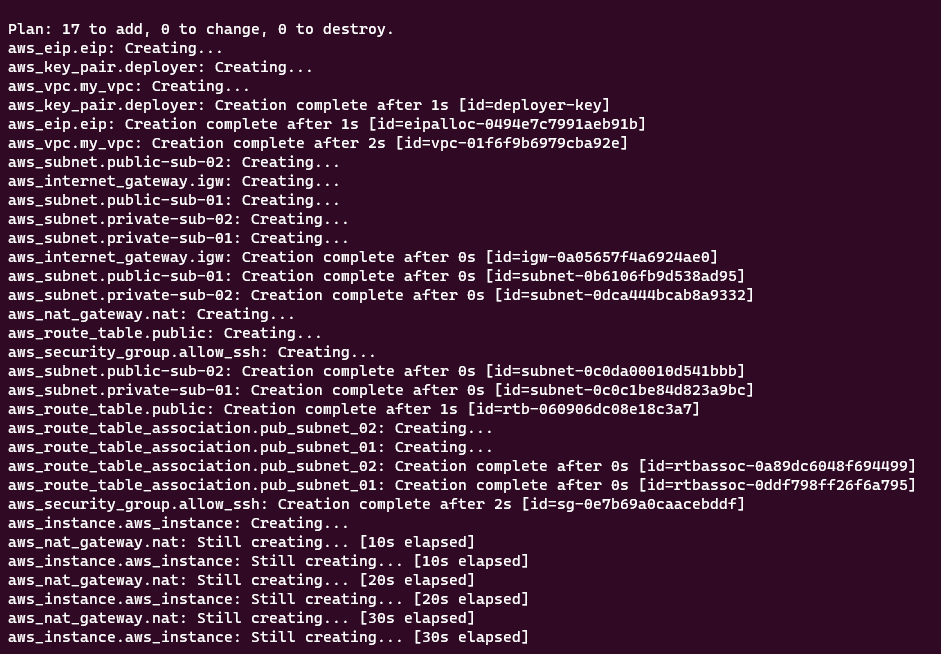
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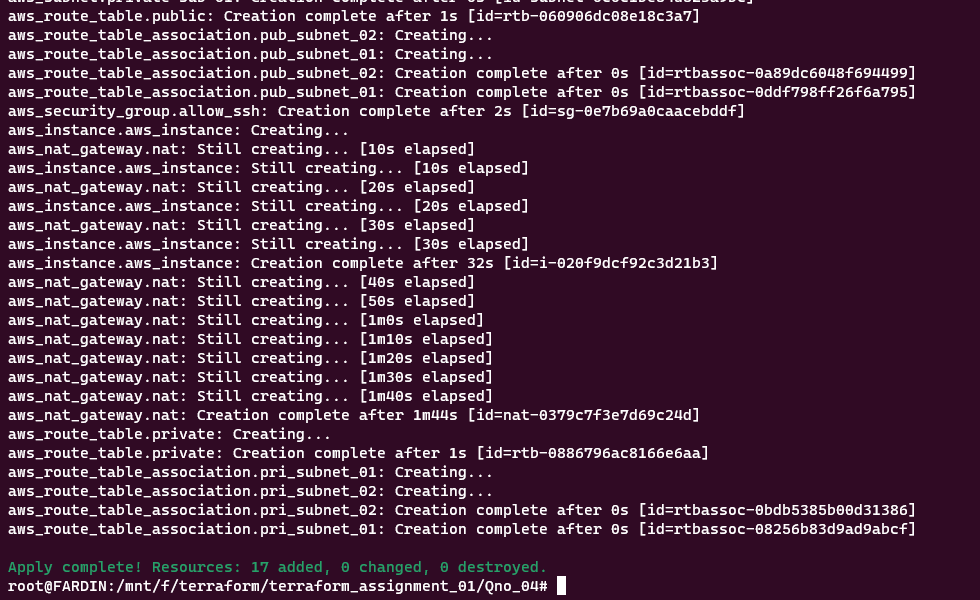
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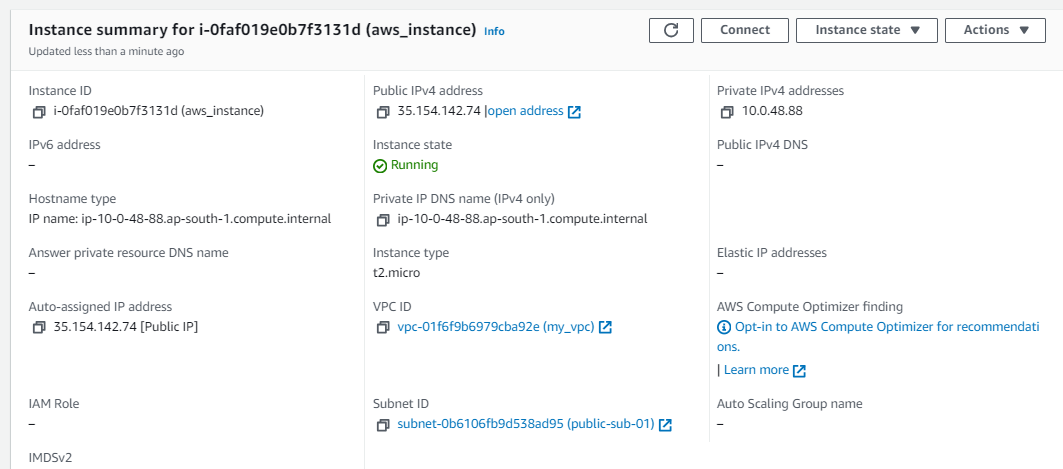
**Terraform apply**

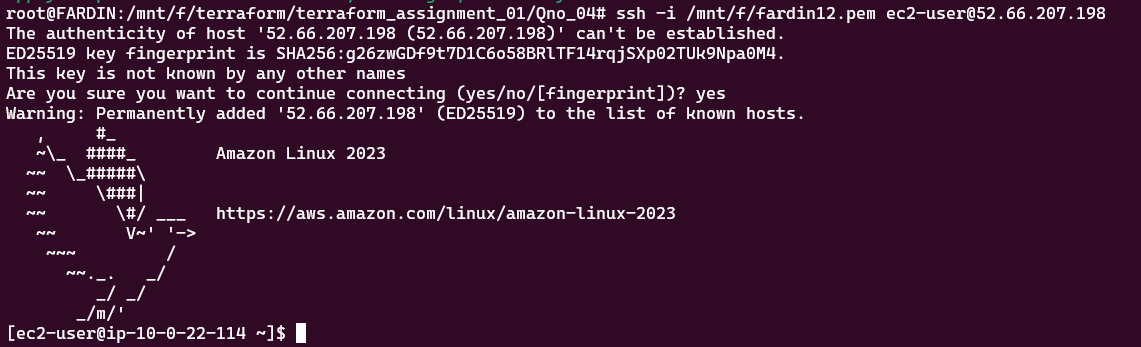
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