# Order of Creation

- Terraform tries to create the resources in parallel if there are no dependencies.
- To specify dependencies we have two ways
  - implicit
  - explicit dependency
- To use the reference of one resouce in terraform we use `<resource-type>.<name>`
- Explicit dependency can be created by adding `depends_on` in the resource syntax

```
resource "<type>" "name" {
    ...
    ...
    depends_on = [ depend_type.name ]
}
```

- Implicit depdency: This can be used for creating implicit dependency by using attributes of one resource in another
- Best Practices:
  - Try to always define explicit depenecies even if there are implicit dependencies
- Refer Here for the changes done to storage account creation with dependencies.

Creating a Virtual Network in Azure

- This activity will be part of a larger activity which multi region ntier application

- As of now lets create a basic network in Azure
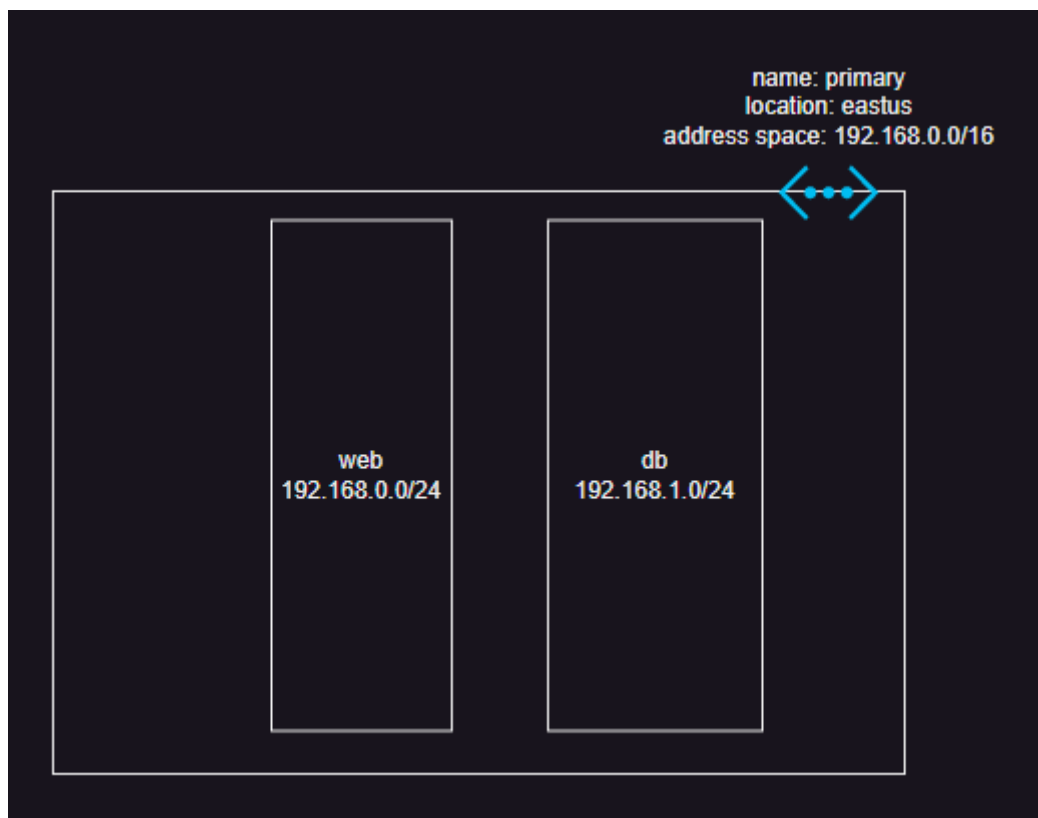
- For manual steps refer classroom video

- Refer Here for the changes done in Terraform to create a virtual network with 2 subnets

- The template above works well but always creates the network with same cidr ranges

- Lets make this template dynamic by asking user to pass the cidr range.
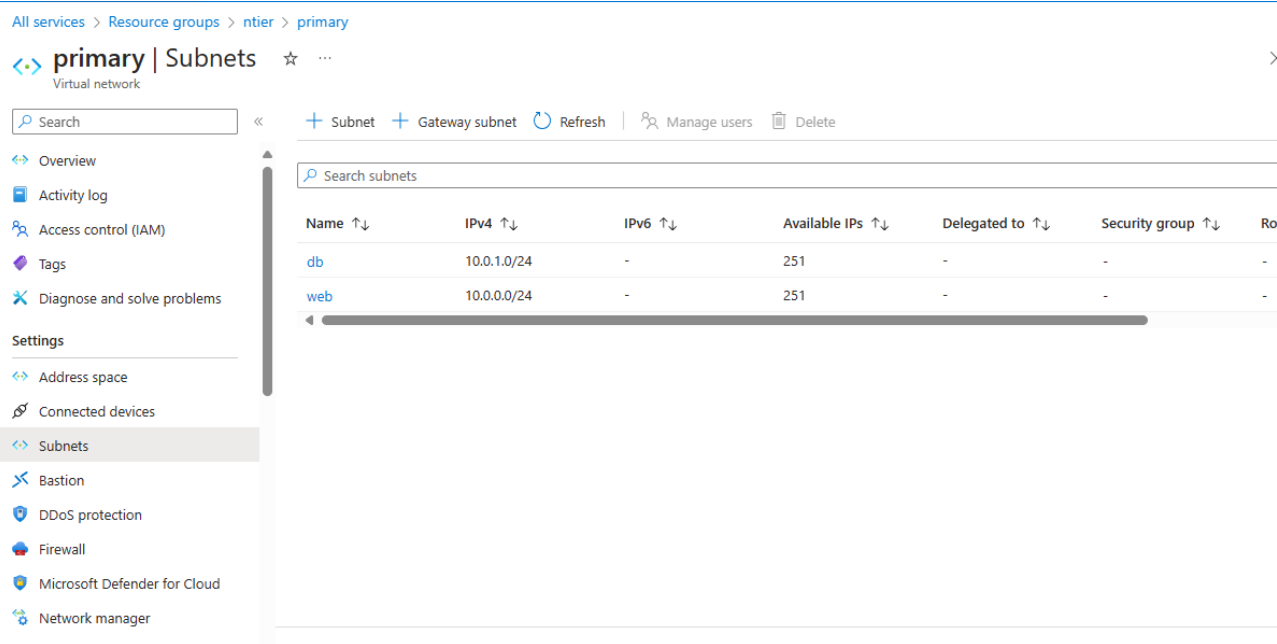
- We have use the following command `terraform apply -var-file="dev.tfvars"`

- Refer Here for the changes.

Exercise

- Try creating a variable for acception the region/location of creation. and resource group name

Terraform Variables

- Refer Here for official docs
- variable creation syntax

```
variable "<name>" {
    type = "string|number|boolean|list|map|set"
    description = "..............."
    default = ""
}
```

- Variable usage syntax `var.<variable-name>`
- Generally create all the variable values in `<env>.tfvars` and use it while creating/updating infra