Under networking folder🡪Create vpc.tf

resource "google\_compute\_network" "main-vpc" {

name = "amit-01-vpc" # Name of the VPC

auto\_create\_subnetworks = false # Set to false for custom subnets

description = "Main VPC for Amit" # Optional description

# Optional tags for reference

}

resource "google\_compute\_subnetwork" "subnet-1" {

name = "amit-subnet-1" # Name of the subnet

ip\_cidr\_range = "10.0.0.0/24" # Subnet CIDR range

region = "asia-south1" # Region for the subnet

network = google\_compute\_network.main-vpc.id # Reference to the VPC

description = "Subnet 1 for Amit"

# Enable private Google access (optional, like mapping private IPs)

private\_ip\_google\_access = true

}

resource "google\_compute\_router" "main-router" {

name = "amit-router"

region = "asia-south1"

network = google\_compute\_network.main-vpc.id

}

resource "google\_compute\_router\_nat" "main-nat" {

name = "amit-nat"

region = "asia-south1"

router = google\_compute\_router.main-router.name

nat\_ip\_allocate\_option = "AUTO\_ONLY" # Option to automatically allocate a NAT IP

source\_subnetwork\_ip\_ranges\_to\_nat = "ALL\_SUBNETWORKS\_ALL\_IP\_RANGES"

}

Run: terraform apply

Check: terraform state list

Check on gcp console resource is created

Check on gcp console gcs bucket for state file