rg_names ek variable hai

`*.auto.tfvars` → `terraform.tfvars` → `default` → `cli`

`rg_name = "rg-dingdong" - string`

Without Loop

List + Without Loop

```
resource "azurerm_resource_group" "resource_group" {
  name     = var.rg_name
  location = "Central India"
}
```

With Loop

Count + List

Input

`rg_names = [ "rg1", "rg2", "rg3", "rg4", "rg4" ] -> LIST`

```
resource "azurerm_resource_group" "resource_group" {

  count    = length(var.rg_names)  - meta_argument

  name     = var.rg_names[count.index] - required_argument

  location = "Central India" - required_argument

}
```

delete karte time game bj jata hai...

ForEach + List

Input

`rg_names = [ "rg1", "rg2", "rg3", "rg4", "rg4" ] - LIST`

```
resource "azurerm_resource_group" "resource_group" {
  for_each = toset(var.rg_names)  - MAP/SET OF STRINGS
  name     = each.key
  location = "West Europe"
}
```

Delete wala problem solve..

5 RG ek hi region me bana sakte hai.. matlab alg alg region me nahi bn paega rg...

ForEach + Map

RG ALG ALG REGION ME BANA NA HAI..

Input

rg_names variable hai
```
rg_names = {
     "rg1" = "WestEurope"
     "rg2" = "CentralIndia"
     "rg3" = "CanadaCentral"
}
```

```
resource "azurerm_resource_group" "resource_group" {

  for_each = var.rg_names - {"rg2" = "CentralIndia"}

  name     = each.key = rg1

  location = each.value = WestEurope

}
```

Input Alg tarike wala

rg_names variable hai uske andar me map me hum log ek key hai rg_ka_naam uska value portal p rg1 hona chahiye...
```
rg_names = {
     "rg_ka_naam" = "rg1"
     "rg_ka_location" = "WestEurope"
}
```

```
resource "azurerm_resource_group" "resource_group" {

  for_each = var.rg_names - {"rg2" = "CentralIndia"}

  name     = each.key = rg1

  location = each.value = WestEurope

}
```

Ye JSON hai..

```
"rg_names" : {
      "roti": "sabji"
      "chawal": "dal"
      "rajma": "chawal"
      "kadi": "chawal"
}
```

MAP Kya hai?

```
{
    key = value
    key =  value
    key = value
}
```

```
{
    "monu" = "ladka hai" - string value
    "tonu"  = 30 - number value
    "rinku" = true - bool value
    "tinku" = [ "one", "two"] - list value
}
```

KEY IS ALWAYS A STRING

VALUE KUCH BHI HO SAKTI HAI

List Kya hai?

`[ "dal", "chawal", "sabji", "roti"]`

```
{
    "rg1" = "WestEurope"
    "rg2" = "CentralIndia"
    "rg3" = "CanadaCentral"
}
```

FOR_EACH

SET OF STRINGS

Jitni set me elements hote hai utti baar chalta hai...

MAP

Jitni keys hoti hai, utni baar foreach chlta hai...

```
resource "azurerm_resource_group" "rgs" {
    for_each = {
        "rg1" = "West Europe"
        "rg2" = "Central India"
        "rg3" = "Canada Central"
        "rg4" = "East US"
    }
    name     = each.key
    location = each.value
}
```

"rg1" = "West Europe"

```
+ resource "azurerm_resource_group" "rgs" {
    + id       = (known after apply)
    + location = each.value
    + name     = each.key
}
```
each.key = rg1

each.value = West Europe

"rg2" = "Central India"

```
+ resource "azurerm_resource_group" "rgs" {
    + id       = (known after apply)
    + location = each.value
    + name     = each.key
}
```
each.key = rg2

each.value = Central India

"rg3" = "Canada Central"

```
+ resource "azurerm_resource_group" "rgs" {
    + id       = (known after apply)
    + location = "westeurope"
    + name     = "dhondhu"
}
```
each.key = rg3

each.value = Canada Central

"rg4" = "East US"

```
+ resource "azurerm_resource_group" "rgs" {
    + id       = (known after apply)
    + location = "westeurope"
    + name     = "dhondhu"
}
```
each.key = rg4

each.value = East US

CHILD MODULES

RG,
VNET
subnet
Vnet Peering,
VPN Gateway,
KeyVault
Bastion
Storage Account
VM, VMSS
Azure Functions, Logic Apps, AKS, ACI
Web App and App Service Plans
Loadbalancer
Application Gateway
FrontDoor
Traffic Manager
NSG, ASG, Firewall
Azure Policies (Builtin and Custom)
Azure SQL Database, Cosmos DB
Azure Monitor, Log Analytics Workspace,
KQL Query, Prometheus+Grafana, PromQL
Backup Vaults, ASR, Azure Backups
Azure Sentinal, Defender, Advisor, Cost Calculator

Azure ka Resources samajhne ke lie kahi se bhi videos dekh sakte hai..

1 resource group banane ke lie....

name - required

location - required

tags - optional

managed_by - optional

Nested Map