### **TASKS ON TERRAFORM**

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**DATE:** 30/07/2025

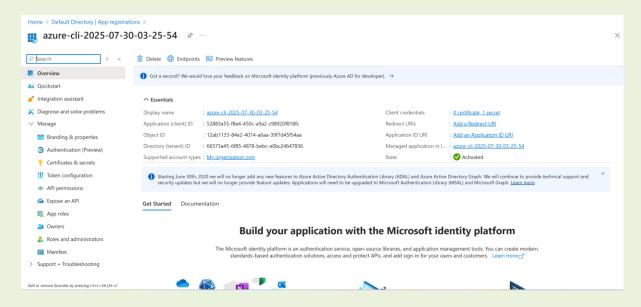
**\*** BATCH: 11

**❖ NO.OF TASKS: 1** 

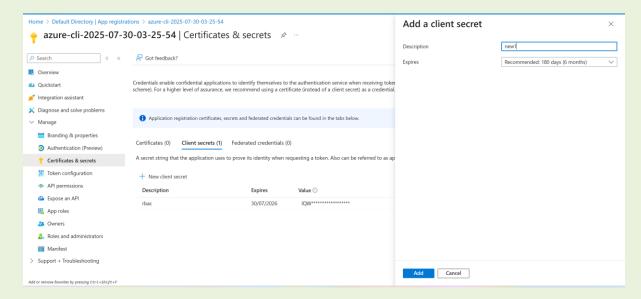
## Task 1: Create a Virtual machine using terraform

Connect to azure CLI and create an app registration

## The details of App registration is as follows



### Click on Certificates & secrets, Click on New Client Secret



Save the following

Value= z1v8Q~Hv7~QBbbb9Akoew9lbauFR5b74oCOmGalC

Secret ID= e200391f-a972-457c-b869-92fb374a253a

Add the **environment variables** as follows

```
export ARM_CLIENT_ID="52883a55-f8e4-450c-a9a2-c98920f818fc"
```

export ARM\_CLIENT\_SECRET="z1v8Q~Hv7~QBbbb9Akoew9lbauFR5b74oCOmGalC"

export ARM\_TENANT\_ID="66573a45-6f85-4878-bebc-e0bc24647836"

export ARM\_SUBSCRIPTION\_ID="5d1b700e-5c37-4a48-a430-e148b56e5404"

```
      hussain [ ~ ]$ export ARM_CLIENT_ID="52883a55-f8e4-459c-a9a2-c98920f818fc"

      export ARM_CLIENT_SECRET="21Ng2-HV7-QBbbb9Akoew0]baufF8b74oComGalC"

      export ARM_FRANKT ID="66573a45-665e-4878-bebc-e8bc24647836" =

      export ARM_SUBSCRIPTION_ID=" 5d1b700e-5c37-4a48-a430-e148b56e5404"

      hussain [ ~ ]$ [
```

### **Create VNet**

Create a file named **vnet.tf** using **vi vnet.tf** and enter the configuration as follows

```
variable vnetname{
```

```
default = "vanettf"
}
variable addressspace{
```

```
default = ["10.1.0.0/16"]
type = list(string)
```

```
resource "azurerm_virtual_network" "example" {
                 name = var.vnetname
                 resource_group_name = var.rgname
                     location = var.location
                 address_space = var.addressspace
                 }
    variable vnetname{
	default = "vanettf"
     ariable addressspace{
	default = ["10.1.0.0/16"]
	type = list(string)
           "azurenm_virtual_network" "example" {
    name = var.vnetname
    resource_group_name = var.rgname
    location = var.location
    address_space = var.addressspace
Create Resource Group
Create a file named rg.tf using vi rg.tf and enter the configuration as follows
variable rgname{
                default = "terraformrg"
variable location{
                     default = "West US 2"
resource "azurerm_resource_group" "example" {
                       name
                                   = var.rgname
                       location = var.location
               default = "terraformrg"
                }
m_resource_group" "example" {
  name = var.rgname
  location = var.location
```

### **Add Providers**

Create a file named providers.tf using vi providers.tf and enter the configuration as follows

```
terraform {
  required_providers {
    azurerm = {
       source = "hashicorp/azurerm"
       version = "4.37.0"
    }
}

provider "azurerm" {
  features {}
}
```

Run the commands terraform init and terraform apply

```
hussain [ -/azure ]$ terraform init
Initializing the backend ..
Initializing provider plugins...
- Reusing provious version of hashicorp/azurerm from the dependency lock file
- Using previous version of hashicorp/azurerm v4.37.0

Terraform has been successfully initialized!
You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
```

### **Provide Implicit Dependency**

Modify file named **vnet.tf** using **vi vnet.tf** and enter the configuration as follows

Implicit dependency in our Terraform configuration

• In our azurerm\_virtual\_network resource block, we set

```
resource_group_name = azurerm_resource_group.example.name.
```

- This reference to **azurerm\_resource\_group.example.name** creates an implicit dependency on the resource group.
- Terraform will automatically know it must create the resource group before creating the virtual network because the virtual network depends on the resource group's name.

```
variable "vnetname" {
  default = "vanettf"
}
variable "addressapce" {
  default = ["10.1.0.0/16"]
  type = list(string)
}
resource "azurerm_virtual_network" "example" {
  name = var.vnetname
  resource_group_name = azurerm_resource_group.example.name
  location = var.location
  address_space = var.addressspace
}
```

# No need to apply

## **Create subnet**

Create a file named **snet.tf** using **vi snet.tf** and enter the configuration as follows

Create a file named **pip.tf** using **vi pip.tf** and enter the configuration as follows

## Run terraform apply

esource "azurerm\_public\_ip" "example" {
 name = var.pip
 resource\_group\_name = azurerm\_resource\_group.example.name
 location = azurerm\_resource\_group.example.location
 allocation\_method = "Static"

```
azurerm_public_ip.example: Creation complete after 3s [id=/subscriptions/5dib700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network/public/PAddresses/pipname)

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
hussain [ -/azure | S |
```

### **Create NSG**

```
Create a file named nsg.tf using vi nsg.tf and enter the configuration as follows
variable "nsg" {
default = "nsgname"
resource "azurerm_network_security_group" "example" {
 name
              = var.nsg
 location
              = azurerm_resource_group.example.location
 resource_group_name = azurerm_resource_group.example.name
 security_rule {
  name
                  = ''test456''
                  = 100
  priority
              = "Inbound"
  direction
           = ''Allow''
  access
  protocol
                  = ''Tcp''
  source_port_range
  destination_port_range = "22"
  source_address_prefix
  destination_address_prefix = "*"
 }
```

```
baseain [ -/azure ] & terraform apply aruner mesource group example: Refreshing state... [id=/subscriptions/5dlb700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network/virtualNetworkstrl] azurerm public ip.example: Refreshing state... [id=/subscriptions/5dlb700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virt
```

```
| Plan: 1 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?

Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.

Enter a value: yes

azurerm network security group example: Creating...
azurerm network security group example: Creating...
azurerm network security group example: Creation complete after 6s [id=/subscriptions/5dlb700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network/networkscourityGroups/nsgname]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.

hussain [ -/azure ] $ []
```

### **Create NIC**

Create a file named **nic.tf** using **vi nic.tf** and enter the configuration as follows

```
variable "nic" {
 default = "nicname"
variable "ipconfigname" {
 default = "ipname"
resource "azurerm_network_interface" "example" {
              = var.nic
 name
 location
              = azurerm_resource_group.example.location
 resource_group_name = azurerm_resource_group.example.name
 ip_configuration {
                    = var.ipconfigname
  name
  subnet_id
                      = azurerm_subnet.example.id
  private_ip_address_allocation = "Dynamic"
```

```
variable "nic" {
    default = "nicname"
}
variable "ipconfigname" {
    default = "ipname" {
        default = "ipname"
}
resource "azurerm_network interface" "example" {
        name = var.nic
        location = azurerm_resource_group.example.location
        resource_group_name = azurerm_resource_group.example.name

ip_configuration {
        name = var.ipconfigname
        subnet_id = azurerm_subnet.example.id
        private_ip_address_allocation = "Dynamic"
}
}
```

}

```
+ private_ip_address_version = "TPV4" = "/subscriptions/5d1b700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network/virtualNetworks/vanettf/subnets/snettf"
}

Plan: 1 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.

Enter a value: yes
azurerm_network_interface.example: Creating... [00m10s elapsed]
azurerm_network_interface.example: Creatin complete after 16s [id=/subscriptions/5d1b700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network/network_interface.example: Creation complete after 16s [id=/subscriptions/5d1b700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network_interface.example: Creation complete after 16s [id=/subscriptions/5d1b700e-5c37-4a48-a430-e148b56e5404/resourceGroups/te
```

### **Connecting NIC and NSG**

Create a file named nicnsg.tf using vi nicnsg.tf and enter the configuration as follows

(connecting NIC and NSG)

resource "azurerm\_network\_interface\_security\_group\_association" "example" {

network\_interface\_id = azurerm\_network\_interface.example.id

network\_security\_group\_id = azurerm\_network\_security\_group.example.id
}

```
resource "azurerm_network_interface_security_group_association" "example" {
    network_interface_id = azurerm_network_interface.example.id
    network_security_group_id = azurerm_network_security_group.example.id
}
```

• The **network\_interface\_id** argument takes the ID of our Azure network interface resource (should be defined elsewhere as **azurerm\_network\_interface.example**).

- The **network\_security\_group\_id** argument takes the ID of your Azure network security group resource (should be defined elsewhere as azurerm\_network\_security\_group.example).
- This block creates an association between the specific **NIC** and the **NSG** so that the security group's rules apply to any traffic handled by the interface.

```
| Install | -/ature | 3 terraform apply aurenm public of presenting state... [id-/subscriptions/sdib700e-5c37-4a48-a430-c148b56c5404/resourcoGroups/terraformrg/providers/Microsoft.Network/publicIPAddres aurenm public ip example: Refreshing state... [id-/subscriptions/5dib700e-5c37-4a48-a430-c148b56c5404/resourcoGroups/terraformrg/providers/Microsoft.Network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/network/networ
```

## **Generate SSH key**

Generate SSH key using ssh-keygen -t rsa

To check the contents of key

cd ../.ssh/

cat id\_rsa

## Add the SSH key

Create a file named ssh.tf using vi ssh.tf and enter the configuration as follows

```
variable sshname{
     default = "sshkey"
     }
resource "azurerm_ssh_public_key" "example" {
     name = var.sshname
     location = azurerm_resource_group.example.location
     resource_group_name = azurerm_resource_group.example.name
     public_key = file("~/.ssh/id_rsa.pub")
}
```

### Run terraform apply

```
Numeria [-/anire ]$ terraform apply
summing reasons group example: Refreshing state... [id-/subscriptions/5dlb700e-5c37-4a48-a430-c148b56c5404/resourceGroups/terraformig/providers/Microsoft.Network/virtuals
anirem_virtual_npteric, example: Refreshing state... [id-/subscriptions/5dlb700e-5c37-4a48-a430-c148b56c5404/resourceGroups/terraformig/providers/Microsoft.Network/virtuals
anirem_network_security_group_example: Refreshing state... [id-/subscriptions/5dlb700e-5c37-4a48-a430-c148b56c5404/resourceGroups/terraformig/providers/Microsoft.Network/network/securityGroups/nagiamse]
anirem_public ip_example: Refreshing state... [id-/subscriptions/5dlb700e-5c37-4a48-a430-c148b56c5404/resourceGroups/terraformig/providers/Microsoft.Network/networks/netts/subscriptions/5dlb700e-5c37-4a48-a430-c148b56c5404/resourceGroups/terraformig/providers/Microsoft.Network/network/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/networks/network
```

```
Do you want to perform these actions?

Terraform will perform the actions described above.

Only 'yes' will be accepted to approve.

Enter a value: yes

azurerm ssh public key.example: Creating...

azurerm ssh public key.example: Creating...

azurerm ssh public key.example: Creation complete after 5s [id=/subscriptions/5dlb700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Compute/shPublicKey/sshkey]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.

hussain [ ~/azure ] $ []
```

```
Modify NIC configuration (Add dependency)
Modify nic.tf using vi nic.tf
variable "nic" {
 default = "nicname"
}
variable "ipconfigname" {
 default = "ipname"
resource "azurerm_network_interface" "example" {
                     = var.nic
 name
 location
                     = azurerm_resource_group.example.location
 resource_group_name = azurerm_resource_group.example.name
 ip_configuration {
                              = var.ipconfigname
   name
   subnet_id
                                = azurerm_subnet.example.id
   private_ip_address_allocation = "Dynamic"
   public_ip_address_id = azurerm_public_ip.example.id
 }
      source "azurerm_netwotk_interface" "example" {
name = var.nic
location = azurerm_resource_group.example.location
resource_group_name = azurerm_resource_group.example.name
          tiguration (

et_id = var.ipconfigname

et_id = azurerm subnet.example.id

ate_ip_address_allocation = "Dynamic"

ic_ip_address_id = azurerm_public_ip.example.id
```

# **Dependencies:**

The references to azurerm\_resource\_group.example, azurerm\_subnet.example, and azurerm\_public\_ip.example create implicit dependencies, so Terraform will ensure those resources are created before this network interface.

```
Numerain [ -/anume 18 terraform apply attraction apply authors of the success of the properties of the success of the success
```

```
Plan: 0 to add, 1 to change, 0 to destroy.

Do you want to perform these actions?

Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.

Enter a value: yes

azurerm network_interface.example: Modifying... [id=/subscriptions/5dlb700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network/Interaces/nicname]
azurerm network_interface.example: Modifications complete after 4s [id=/subscriptions/5dlb700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network/networkInterfaces/nicname]

Apply complete! Resources: 0 added, 1 changed, 0 destroyed.

hussain [ ~/azure ] S
```

## **Creating VM**

Create a file named vm.tf using vi vm.tf and enter the configuration as follows

```
variable "vmname" {
  default = "vmname"
}

variable "size" {
  default = "Standard_D2ls_v5"
}

variable "username" {
  default = "mujju"
}

variable "image" {
  default = {
    publisher = "Canonical"
    offer = "0001-com-ubuntu-server-jammy"
    sku = "22_04-lts-gen2"
    version = "latest"
```

```
}
 type = object({
  publisher = string
  offer = string
  sku = string
  version = string
})
resource "azurerm_linux_virtual_machine" "example" {
name
              = var.vmname
 resource_group_name = azurerm_resource_group.example.name
 location
              = azurerm_resource_group.example.location
 size
            = var.size
 admin_username = var.username
 network_interface_ids = [
  azurerm_network_interface.example.id,
]
 admin_ssh_key {
  username = var.username
  public_key = azurerm_ssh_public_key.example.public_key
 }
 os_disk {
  caching
          = "ReadWrite"
  storage_account_type = "Standard_LRS"
 }
 source_image_reference {
  publisher = var.image.publisher
```

```
offer = var.image.offer
sku = var.image.sku
version = var.image.version
}
```

```
os_disk {
    caching = "ReadWrite"
    storage_account_type = "Standard_LRS"
}
source_image_reference {
    publisher = var.image.publisher
    offer = var.image.offer
    sku = var.image.sku
    version = var.image.exo
```

# Run the command terraform apply

```
### Nature 18 terraform spably active memory of the providers will be considered by the providers of the pro
```

## Add outputs.tf

Create a file named outputs.tf using vi outputs.tf and enter the configuration as follows

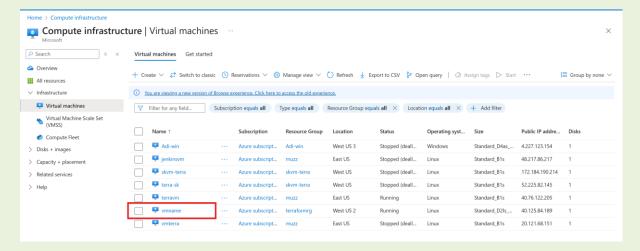
```
output "pip" {
  value = azurerm_public_ip.example.ip_address
}
```

```
output "pip" (
value = azurerm_public_ip.example.ip_address )
```

## Run terraform apply

```
hussain [ -/azure ]$ terraform apply
auron_nesource group example: Mefreshing state... [id-/subscriptions/5dlb700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Compute/sshPublic
Reys/sshBevg)
auron_network security_group.example: Refreshing state... [id-/subscriptions/5dlb700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network/network/network/security_group.example: Refreshing state... [id-/subscriptions/5dlb700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network/network/network/network/security/groups/sagname]
auron_nubloic_po_sample: Refreshing state... [id-/subscriptions/5dlb700e-5c37-4a48-a430-e148b56e5404/resourceGroups/terraformrg/providers/Microsoft.Network/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks/virtualNetworks
```

#### The VM is created



### **Connect to VM**

## Connect to VM using

### ssh mujju@40.125.84.189

```
Diseasin [ -/azure | 8 msh mrjju840.125.84.189 (do.125.84.189) The authenticity of host '40.125.84.189 (do.125.84.189)' can't be established.

1255518 Msy interprint is SUMASS-14750Wg/SIGNETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSSEMETSS
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