

1. First you can create a file named machine.tf and add the following contents to the file

Remember to ensure that you already have a storage account in place and replace the name of the storage account accordingly in the below configuration file. Also replace other values wherever it is applicable for your environment

```
variable "storage_account_name" {  
    type=string  
    default="az400terraform120522"  
}
```

```
variable "network_name" {  
    type=string  
    default="terraform_network"  
}
```

```
variable "vm_name" {  
    type=string  
    default="ubuntu-terraform-vm"  
}
```

```
provider "azurerm"{  
    version = "=2.0"  
    subscription_id = ""  
    tenant_id      = ""  
    features {}  
}
```

```
resource "azurerm_virtual_network" "terraform_network" {  
    name            = var.network_name  
    address_space   = ["10.0.0.0/16"]  
    location        = "North Europe"  
    resource_group_name = "az400_terraform_grp"
```

```
}
```

```
resource "azurerm_subnet" "default" {  
  name          = "default"  
  resource_group_name = " az400_terraform_grp"  
  virtual_network_name = azurerm_virtual_network.staging.name  
  address_prefix  = "10.0.0.0/24"  
}
```

```
resource "azurerm_network_interface" "interface" {  
  name          = "default-interface"  
  location      = "North Europe"  
  resource_group_name = " az400_terraform_grp"
```

```
  ip_configuration {  
    name          = "interfaceconfiguration"  
    subnet_id      = azurerm_subnet.default.id  
    private_ip_address_allocation = "Dynamic"  
  }  
}
```

```
resource "azurerm_virtual_machine" "vm" {  
  name          = var.vm_name  
  location      = "East US"  
  resource_group_name = " az400_terraform_grp"  
  network_interface_ids = [azurerm_network_interface.interface.id]  
  vm_size       = "Standard_DS1_v2"
```

```
  storage_image_reference {  
    publisher = "Canonical"  
    offer     = "UbuntuServer"
```

```

sku      = "18.04-LTS"
version  = "latest"
}
storage_os_disk {
  name      = "osdisk1"
  caching    = "ReadWrite"
  create_option = "FromImage"
  managed_disk_type = "Standard_LRS"
}
os_profile {
  computer_name = "ubuntu-terraform-vm"
  admin_username = "makarand"
  admin_password = "makarand@1234"
}
os_profile_linux_config {
  disable_password_authentication = false
}
}

```

2. In Azure Cloud shell you can execute the following commands

a. Initialize terraform

```
terraform init
```

b. Create the terraform plan

```
terraform plan -out machine.tfplan
```

c. Apply the terraform plan

```
terraform apply "machine.tfplan"
```