

Policy Definition: <https://github.com/pjsaha1976/laC/tree/main/policy-definition>

Results:

odl_user [~/laC/policy-definition]\$ terraform apply

var.client_id

The user id of the Service Principal identity that terraform will run under

Enter a value: 566b6c6e-5123-4c97-9cf5-60efa9284c57

var.client_secret

The password/client_secret of the Service Principal identity that terraform will run under

Enter a value: kL~8Q~T.i.tCGderzbJRTqH DU-UgfJSFUBcQKbqL

var.policy_name

The name of the Azure Policy Definition

Enter a value: tagging-policy

var.subscription_id

The subscription id of that is in scope for this Azure Policy Definition

Enter a value: 456cc604-544c-45f8-99d0-c1b73aeec440

var.tenant_id

The tenant id of the Service Principal identity that terraform will run under

Enter a value: f958e84a-92b8-439f-a62d-4f45996b6d07

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

+ create

Terraform will perform the following actions:

```
# azurerm_policy_definition.require_tags_on_resources will be created
+ resource "azurerm_policy_definition" "require_tags_on_resources" {
  + description      = "Ensures that all indexed resources have tags. Denies deployment if
tags are missing."
  + display_name     = "Require tags on all resources"
  + id               = (known after apply)
  + metadata         = jsonencode(
    {
      + category = "Tags"
      + version  = "1.0.0"
    }
  )
  + mode            = "Indexed"
  + name            = "tagging-policy"
```

```

+ policy_rule      = jsonencode(
  {
    + if = {
      + exists = "false"
      + field  = "tags"
    }
    + then = {
      + effect = "deny"
    }
  }
)
+ policy_type      = "Custom"
+ role_definition_ids = (known after apply)
}

```

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_policy_definition.require_tags_on_resources: Creating...
azurerm_policy_definition.require_tags_on_resources: Still creating... [00m10s elapsed]
azurerm_policy_definition.require_tags_on_resources: Still creating... [00m20s elapsed]
azurerm_policy_definition.require_tags_on_resources: Still creating... [00m30s elapsed]
azurerm_policy_definition.require_tags_on_resources: Still creating... [00m40s elapsed]
azurerm_policy_definition.require_tags_on_resources: Still creating... [00m50s elapsed]
azurerm_policy_definition.require_tags_on_resources: Still creating... [01m00s elapsed]
azurerm_policy_definition.require_tags_on_resources: Still creating... [01m10s elapsed]
azurerm_policy_definition.require_tags_on_resources: Still creating... [01m20s elapsed]
azurerm_policy_definition.require_tags_on_resources: Still creating... [01m30s elapsed]
azurerm_policy_definition.require_tags_on_resources: Creation complete after 1m34s [id=/
subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/providers/Microsoft.Authorization/
policyDefinitions/tagging-policy]

```

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

odl_user [~/laC/policy-definition]\$ az policy assignment create --policy tagging-policy

Readonly attribute scope will be ignored in class <class

'azure.mgmt.resource.policy.v2021_06_01.models._models_py3.PolicyAssignment'>

```

{
  "description": null,
  "displayName": null,
  "enforcementMode": "Default",
  "id": "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/providers/
Microsoft.Authorization/policyAssignments/N0XJbDdYQ4OzGoTjkGisQg",
  "identity": null,
  "location": null,
  "metadata": {
    "createdBy": "265db5af-82ad-416d-86fc-13630f699cf7",

```

```

    "createdOn": "2025-07-30T09:28:52.693257Z",
    "updatedBy": null,
    "updatedOn": null
  },
  "name": "N0XJbDdYQ4OzGoTjkGisQg",
  "nonComplianceMessages": null,
  "notScopes": null,
  "parameters": null,
  "policyDefinitionId": "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/providers/
Microsoft.Authorization/policyDefinitions/tagging-policy",
  "scope": "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440",
  "systemData": {
    "createdAt": "2025-07-30T09:28:52.676655+00:00",
    "createdBy": "566b6c6e-5123-4c97-9cf5-60efa9284c57",
    "createdByType": "Application",
    "lastModifiedAt": "2025-07-30T09:28:52.676655+00:00",
    "lastModifiedBy": "566b6c6e-5123-4c97-9cf5-60efa9284c57",
    "lastModifiedByType": "Application"
  },
  "type": "Microsoft.Authorization/policyAssignments"
}

```

odl_user [~/laC/policy-definition]\$ az policy assignment list

```

[
  {
    "description": null,
    "displayName": null,
    "enforcementMode": "Default",
    "id": "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/providers/
Microsoft.Authorization/policyAssignments/N0XJbDdYQ4OzGoTjkGisQg",
    "identity": null,
    "location": null,
    "metadata": {
      "createdBy": "265db5af-82ad-416d-86fc-13630f699cf7",
      "createdOn": "2025-07-30T09:28:52.693257Z",
      "updatedBy": null,
      "updatedOn": null
    },
    "name": "N0XJbDdYQ4OzGoTjkGisQg",
    "nonComplianceMessages": null,
    "notScopes": null,
    "parameters": null,
    "policyDefinitionId": "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/providers/
Microsoft.Authorization/policyDefinitions/tagging-policy",
    "scope": "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440",
    "systemData": {
      "createdAt": "2025-07-30T09:28:52.676655+00:00",
      "createdBy": "566b6c6e-5123-4c97-9cf5-60efa9284c57",
      "createdByType": "Application",
      "lastModifiedAt": "2025-07-30T09:28:52.676655+00:00",
      "lastModifiedBy": "566b6c6e-5123-4c97-9cf5-60efa9284c57",
      "lastModifiedByType": "Application"
    }
  }
]

```

```

    },
    "type": "Microsoft.Authorization/policyAssignments"
  },
  {
    "description": "cloudevops674-285063-PolicyDefinition",
    "displayName": "cloudevops674-285063-PolicyDefinition",
    "enforcementMode": "Default",
    "id": "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/providers/
Microsoft.Authorization/policyAssignments/cloudevops674-285063-PolicyDefinition",
    "identity": null,
    "location": null,
    "metadata": {
      "createdBy": "f797eca9-5d09-44b6-b23f-98732363911c",
      "createdOn": "2025-07-30T09:03:45.6891574Z",
      "updatedBy": null,
      "updatedOn": null
    },
    "name": "cloudevops674-285063-PolicyDefinition",
    "nonComplianceMessages": null,
    "notScopes": null,
    "parameters": null,
    "policyDefinitionId": "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/providers/
Microsoft.Authorization/policyDefinitions/cloudevops674-285063-PolicyDefinition",
    "scope": "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440",
    "systemData": {
      "createdAt": "2025-07-30T09:03:45.674056+00:00",
      "createdBy": "0609ced8-c8f7-49fd-91c2-c484ddad694d",
      "createdByType": "Application",
      "lastModifiedAt": "2025-07-30T09:03:45.674056+00:00",
      "lastModifiedBy": "0609ced8-c8f7-49fd-91c2-c484ddad694d",
      "lastModifiedByType": "Application"
    },
    "type": "Microsoft.Authorization/policyAssignments"
  }
]
odl_user [ ~/laC/policy-definition ]$

```

packer build server.json

pjsaha@web-svr:~/laC/packer-template\$ packer build server.json

==> Wait completed after 5 minutes 1 second

==> Builds finished. The artifacts of successful builds are:

--> azure-arm: Azure.ResourceManagement.VMImage:

OSType: Linux

ManagedImageResourceGroupName: Azuredevops

ManagedImageName: packer-ubuntu-server

ManagedImageId: /subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/
Azuredevops/providers/Microsoft.Compute/images/packer-ubuntu-server
ManagedImageLocation: East US

terraform plan -out solution.plan

jsaha@web-svr:~/laC/terraform-template\$ terraform plan -out solution.plan

var.admin_password

Admin password for the VM

Enter a value:

var.client_id

The user id of the Service Principal identity that terraform will run under

Enter a value: a150f3db-9352-4bc0-9bea-ae879693a190

var.client_secret

The password/client_secret of the Service Principal identity that terraform will run under

Enter a value: pfa8Q~6.rymPq-2XhBj0V5B0tWtWx1BSi0xiPb4N

var.subscription_id

The subscription id of that is in scope for this Azure Policy Definition

Enter a value: 456cc604-544c-45f8-99d0-c1b73aeec440

var.tenant_id

The tenant id of the Service Principal identity that terraform will run under

Enter a value: f958e84a-92b8-439f-a62d-4f45996b6d07

data.azurearm_image.packer_image: Reading...

data.azurearm_image.packer_image: Read complete after 0s [id=/subscriptions/
456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/
Microsoft.Compute/images/packer-ubuntu-server]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

+ create

Terraform will perform the following actions:

```
# azurearm_availability_set.main_avset will be created
+ resource "azurearm_availability_set" "main_avset" {
  + id                = (known after apply)
  + location          = "eastus"
  + managed           = true
  + name              = "demo-avset"
  + platform_fault_domain_count = 2
```

```

+ platform_update_domain_count = 2
+ resource_group_name          = "Azuredevops"
}

# azure_rm_lb.main_lb will be created
+ resource "azure_rm_lb" "main_lb" {
+ id                = (known after apply)
+ location           = "eastus"
+ name               = "demo-lb"
+ private_ip_address = (known after apply)
+ private_ip_addresses = (known after apply)
+ resource_group_name = "Azuredevops"
+ sku                 = "Basic"
+ sku_tier            = "Regional"

+ frontend_ip_configuration {
+ gateway_load_balancer_frontend_ip_configuration_id = (known after apply)
+ id                                                  = (known after apply)
+ inbound_nat_rules                                = (known after apply)
+ load_balancer_rules                              = (known after apply)
+ name                                               = "PublicIPAddress"
+ outbound_rules                                   = (known after apply)
+ private_ip_address                               = (known after apply)
+ private_ip_address_allocation                     = (known after apply)
+ private_ip_address_version                       = (known after apply)
+ public_ip_address_id                             = (known after apply)
+ public_ip_prefix_id                             = (known after apply)
+ subnet_id                                         = (known after apply)
}
}

# azure_rm_lb_backend_address_pool.main_bepool will be created
+ resource "azure_rm_lb_backend_address_pool" "main_bepool" {
+ backend_ip_configurations = (known after apply)
+ id                        = (known after apply)
+ inbound_nat_rules        = (known after apply)
+ load_balancing_rules      = (known after apply)
+ loadbalancer_id          = (known after apply)
+ name                     = "demo-bepool"
+ outbound_rules           = (known after apply)
}

# azure_rm_linux_virtual_machine.main_vm will be created
+ resource "azure_rm_linux_virtual_machine" "main_vm" {
+ admin_password          = (sensitive value)
+ admin_username          = "pjsaha"
+ allow_extension_operations = true
+ availability_set_id      = (known after apply)
+ bypass_platform_safety_checks_on_user_schedule_enabled = false
+ computer_name            = (known after apply)
+ disable_password_authentication = false
+ disk_controller_type     = (known after apply)
+ extensions_time_budget   = "PT1H30M"
+ id                      = (known after apply)

```

```

+ location                        = "eastus"
+ max_bid_price                  = -1
+ name                          = "demo-vm"
+ network_interface_ids         = (known after apply)
+ patch_assessment_mode         = "ImageDefault"
+ patch_mode                    = "ImageDefault"
+ platform_fault_domain         = -1
+ priority                      = "Regular"
+ private_ip_address            = (known after apply)
+ private_ip_addresses          = (known after apply)
+ provision_vm_agent            = true
+ public_ip_address             = (known after apply)
+ public_ip_addresses           = (known after apply)
+ resource_group_name           = "Azuredevops"
+ size                         = "Standard_D2s_v3"
+ source_image_id               = "/subscriptions/456cc604-544c-45f8-99d0-
c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Compute/images/packer-
ubuntu-server"
+ tags                          = {
  + "Project" = "Udacity-Costco-Cloud-Infrastructure"
}
+ virtual_machine_id            = (known after apply)
+ vm_agent_platform_updates_enabled = (known after apply)

+ os_disk {
  + caching          = "ReadWrite"
  + disk_size_gb     = (known after apply)
  + id               = (known after apply)
  + name             = "demo-osdisk"
  + storage_account_type = "Standard_LRS"
  + write_accelerator_enabled = false
}

+ termination_notification (known after apply)
}

# azurerm_managed_disk.main_data_disk will be created
+ resource "azurerm_managed_disk" "main_data_disk" {
  + create_option      = "Empty"
  + disk_iops_read_only = (known after apply)
  + disk_iops_read_write = (known after apply)
  + disk_mbps_read_only = (known after apply)
  + disk_mbps_read_write = (known after apply)
  + disk_size_gb       = 64
  + id                 = (known after apply)
  + location           = "eastus"
  + logical_sector_size = (known after apply)
  + max_shares         = (known after apply)
  + name               = "demo-datadisk"
  + network_access_policy = "AllowAll"
  + optimized_frequent_attach_enabled = false
  + performance_plus_enabled = false
  + public_network_access_enabled = true
  + resource_group_name = "Azuredevops"

```

```

+ source_uri          = (known after apply)
+ storage_account_type = "Standard_LRS"
+ tier                 = (known after apply)
}

```

azurerm_network_interface.main_nic will be created

```

+ resource "azurerm_network_interface" "main_nic" {
+   accelerated_networking_enabled = false
+   applied_dns_servers            = (known after apply)
+   id                             = (known after apply)
+   internal_domain_name_suffix    = (known after apply)
+   ip_forwarding_enabled          = false
+   location                       = "eastus"
+   mac_address                    = (known after apply)
+   name                           = "demo-nic"
+   private_ip_address             = (known after apply)
+   private_ip_addresses           = (known after apply)
+   resource_group_name            = "Azuredevops"
+   virtual_machine_id             = (known after apply)

+   ip_configuration {
+     gateway_load_balancer_frontend_ip_configuration_id = (known after apply)
+     name                                                = "internal"
+     primary                                              = (known after apply)
+     private_ip_address                                 = (known after apply)
+     private_ip_address_allocation                     = "Dynamic"
+     private_ip_address_version                         = "IPv4"
+     subnet_id                                          = (known after apply)
+   }
}

```

azurerm_network_interface_backend_address_pool_association.main_nic_lb_assoc will be created

```

+ resource "azurerm_network_interface_backend_address_pool_association"
"main_nic_lb_assoc" {
+   backend_address_pool_id = (known after apply)
+   id                      = (known after apply)
+   ip_configuration_name   = "internal"
+   network_interface_id    = (known after apply)
}

```

azurerm_network_security_group.main_nsg will be created

```

+ resource "azurerm_network_security_group" "main_nsg" {
+   id          = (known after apply)
+   location    = "eastus"
+   name        = "demo-nsg"
+   resource_group_name = "Azuredevops"
+   security_rule = [
+     {
+       access                = "Allow"
+       destination_address_prefix = "*"
+       destination_address_prefixes = []
+       destination_application_security_group_ids = []
+       destination_port_range = "80"

```



```

+ destination_port_ranges          = []
+ direction                        = "Inbound"
+ name                            = "Allow-HTTP-From-LB"
+ priority                        = 200
+ protocol                        = "Tcp"
+ source_address_prefix            = "AzureLoadBalancer"
+ source_address_prefixes          = []
+ source_application_security_group_ids = []
+ source_port_range                = "*"
+ source_port_ranges              = []
  # (1 unchanged attribute hidden)
},
+ {
  + access                        = "Allow"
  + destination_address_prefix    = "VirtualNetwork"
  + destination_address_prefixes  = []
  + destination_application_security_group_ids = []
  + destination_port_range        = "*"
  + destination_port_ranges      = []
  + direction                    = "Inbound"
  + name                        = "Allow-VNet-Inbound"
  + priority                    = 300
  + protocol                    = "*"
  + source_address_prefix        = "VirtualNetwork"
  + source_address_prefixes      = []
  + source_application_security_group_ids = []
  + source_port_range            = "*"
  + source_port_ranges          = []
  # (1 unchanged attribute hidden)
},
+ {
  + access                        = "Allow"
  + destination_address_prefix    = "VirtualNetwork"
  + destination_address_prefixes  = []
  + destination_application_security_group_ids = []
  + destination_port_range        = "*"
  + destination_port_ranges      = []
  + direction                    = "Outbound"
  + name                        = "Allow-VNet-Outbound"
  + priority                    = 400
  + protocol                    = "*"
  + source_address_prefix        = "VirtualNetwork"
  + source_address_prefixes      = []
  + source_application_security_group_ids = []
  + source_port_range            = "*"
  + source_port_ranges          = []
  # (1 unchanged attribute hidden)
},
+ {
  + access                        = "Deny"
  + destination_address_prefix    = "*"
  + destination_address_prefixes  = []
  + destination_application_security_group_ids = []
  + destination_port_range        = "*"

```

```

+ destination_port_ranges          = []
+ direction                        = "Inbound"
+ name                            = "Deny-Internet-Inbound"
+ priority                         = 100
+ protocol                         = "*"
+ source_address_prefix            = "Internet"
+ source_address_prefixes          = []
+ source_application_security_group_ids = []
+ source_port_range                = "*"
+ source_port_ranges              = []
  # (1 unchanged attribute hidden)
},
]
}

```

azurerm_public_ip.main_public_ip will be created

```

+ resource "azurerm_public_ip" "main_public_ip" {
+   allocation_method      = "Dynamic"
+   ddos_protection_mode    = "VirtualNetworkInherited"
+   fqdn                   = (known after apply)
+   id                     = (known after apply)
+   idle_timeout_in_minutes = 4
+   ip_address              = (known after apply)
+   ip_version              = "IPv4"
+   location                = "eastus"
+   name                    = "demo-public-ip"
+   resource_group_name     = "Azuredevops"
+   sku                     = "Basic"
+   sku_tier                 = "Regional"
+ }

```

azurerm_subnet.main_subnet will be created

```

+ resource "azurerm_subnet" "main_subnet" {
+   address_prefixes        = [
+     "10.0.1.0/24",
+   ]
+   default_outbound_access_enabled = true
+   id                        = (known after apply)
+   name                     = "demo-subnet"
+   private_endpoint_network_policies = "Disabled"
+   private_link_service_network_policies_enabled = true
+   resource_group_name      = "Azuredevops"
+   virtual_network_name     = "demo-vnet"
+ }

```

azurerm_subnet_network_security_group_association.main_assoc will be created

```

+ resource "azurerm_subnet_network_security_group_association" "main_assoc" {
+   id = (known after apply)
+   network_security_group_id = (known after apply)
+   subnet_id                 = (known after apply)
+ }

```

azurerm_virtual_machine_data_disk_attachment.main_data_disk_attach will be created

```

+ resource "azurerm_virtual_machine_data_disk_attachment" "main_data_disk_attach" {

```

```

+ caching          = "ReadWrite"
+ create_option    = "Attach"
+ id               = (known after apply)
+ lun              = 0
+ managed_disk_id  = (known after apply)
+ virtual_machine_id = (known after apply)
+ write_accelerator_enabled = false
}

# azurerm_virtual_network.main_vnet will be created
+ resource "azurerm_virtual_network" "main_vnet" {
  + address_space      = [
    + "10.0.0.0/16",
  ]
  + dns_servers        = (known after apply)
  + guid               = (known after apply)
  + id                 = (known after apply)
  + location            = "eastus"
  + name                = "demo-vnet"
  + private_endpoint_vnet_policies = "Disabled"
  + resource_group_name = "Azuredevops"
  + subnet              = (known after apply)
}

```

Plan: 13 to add, 0 to change, 0 to destroy.

Saved the plan to: solution.plan

To perform exactly these actions, run the following command to apply:

```

terraform apply "solution.plan"
pjsaha@web-svr:~/laC/terraform-template$

```

terraform show solution.plan

```

pjsaha@web-svr:~/laC/terraform-template$ terraform show solution.plan

```

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

+ create

Terraform will perform the following actions:

```

# azurerm_availability_set.main_avset will be created
+ resource "azurerm_availability_set" "main_avset" {

```

```

+ id                = (known after apply)
+ location          = "eastus"
+ managed           = true
+ name              = "demo-avset"
+ platform_fault_domain_count = 2
+ platform_update_domain_count = 2
+ resource_group_name = "Azuredevops"
}

```

azurerm_lb.main_lb will be created

```

+ resource "azurerm_lb" "main_lb" {
+ id                = (known after apply)
+ location          = "eastus"
+ name              = "demo-lb"
+ private_ip_address = (known after apply)
+ private_ip_addresses = (known after apply)
+ resource_group_name = "Azuredevops"
+ sku               = "Basic"
+ sku_tier          = "Regional"

+ frontend_ip_configuration {
+ gateway_load_balancer_frontend_ip_configuration_id = (known after apply)
+ id                                                  = (known after apply)
+ inbound_nat_rules                                = (known after apply)
+ load_balancer_rules                              = (known after apply)
+ name                                               = "PublicIPAddress"
+ outbound_rules                                   = (known after apply)
+ private_ip_address                               = (known after apply)
+ private_ip_address_allocation                    = (known after apply)
+ private_ip_address_version                       = (known after apply)
+ public_ip_address_id                             = (known after apply)
+ public_ip_prefix_id                             = (known after apply)
+ subnet_id                                         = (known after apply)
}
}

```

azurerm_lb_backend_address_pool.main_bepool will be created

```

+ resource "azurerm_lb_backend_address_pool" "main_bepool" {
+ backend_ip_configurations = (known after apply)
+ id                        = (known after apply)
+ inbound_nat_rules        = (known after apply)
+ load_balancing_rules     = (known after apply)
+ loadbalancer_id          = (known after apply)
+ name                     = "demo-bepool"
+ outbound_rules           = (known after apply)
}

```

azurerm_linux_virtual_machine.main_vm will be created

```

+ resource "azurerm_linux_virtual_machine" "main_vm" {
+ admin_password          = (sensitive value)
+ admin_username          = "pjsaha"
+ allow_extension_operations = true
+ availability_set_id      = (known after apply)
+ bypass_platform_safety_checks_on_user_schedule_enabled = false
}

```

```

+ computer_name                = (known after apply)
+ disable_password_authentication = false
+ disk_controller_type         = (known after apply)
+ extensions_time_budget       = "PT1H30M"
+ id                           = (known after apply)
+ location                     = "eastus"
+ max_bid_price                 = -1
+ name                          = "demo-vm"
+ network_interface_ids        = (known after apply)
+ patch_assessment_mode        = "ImageDefault"
+ patch_mode                    = "ImageDefault"
+ platform_fault_domain        = -1
+ priority                      = "Regular"
+ private_ip_address            = (known after apply)
+ private_ip_addresses          = (known after apply)
+ provision_vm_agent            = true
+ public_ip_address             = (known after apply)
+ public_ip_addresses           = (known after apply)
+ resource_group_name           = "Azuredevops"
+ size                          = "Standard_D2s_v3"
+ source_image_id               = "/subscriptions/456cc604-544c-45f8-99d0-
c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Compute/images/packer-
ubuntu-server"
+ tags                          = {
  + "Project" = "Udacity-Costco-Cloud-Infrastructure"
}
+ virtual_machine_id            = (known after apply)
+ vm_agent_platform_updates_enabled = (known after apply)

+ os_disk {
  + caching          = "ReadWrite"
  + disk_size_gb     = (known after apply)
  + id                = (known after apply)
  + name              = "demo-osdisk"
  + storage_account_type = "Standard_LRS"
  + write_accelerator_enabled = false
}

+ termination_notification (known after apply)
}

# azurerm_managed_disk.main_data_disk will be created
+ resource "azurerm_managed_disk" "main_data_disk" {
  + create_option      = "Empty"
  + disk_iops_read_only = (known after apply)
  + disk_iops_read_write = (known after apply)
  + disk_mbps_read_only = (known after apply)
  + disk_mbps_read_write = (known after apply)
  + disk_size_gb        = 64
  + id                  = (known after apply)
  + location             = "eastus"
  + logical_sector_size = (known after apply)
  + max_shares           = (known after apply)
  + name                 = "demo-datadisk"

```

```

+ network_access_policy      = "AllowAll"
+ optimized_frequent_attach_enabled = false
+ performance_plus_enabled   = false
+ public_network_access_enabled = true
+ resource_group_name        = "Azuredevops"
+ source_uri                  = (known after apply)
+ storage_account_type       = "Standard_LRS"
+ tier                         = (known after apply)
}

```

azurerm_network_interface.main_nic will be created

```

+ resource "azurerm_network_interface" "main_nic" {
+   accelerated_networking_enabled = false
+   applied_dns_servers             = (known after apply)
+   id                             = (known after apply)
+   internal_domain_name_suffix    = (known after apply)
+   ip_forwarding_enabled          = false
+   location                       = "eastus"
+   mac_address                    = (known after apply)
+   name                           = "demo-nic"
+   private_ip_address             = (known after apply)
+   private_ip_addresses           = (known after apply)
+   resource_group_name           = "Azuredevops"
+   virtual_machine_id             = (known after apply)

+   ip_configuration {
+     gateway_load_balancer_frontend_ip_configuration_id = (known after apply)
+     name                                                = "internal"
+     primary                                             = (known after apply)
+     private_ip_address                                = (known after apply)
+     private_ip_address_allocation                     = "Dynamic"
+     private_ip_address_version                       = "IPv4"
+     subnet_id                                         = (known after apply)
+   }
}

```

azurerm_network_interface_backend_address_pool_association.main_nic_lb_assoc will be created

```

+ resource "azurerm_network_interface_backend_address_pool_association"
"main_nic_lb_assoc" {
+   backend_address_pool_id = (known after apply)
+   id                      = (known after apply)
+   ip_configuration_name   = "internal"
+   network_interface_id    = (known after apply)
}

```

azurerm_network_security_group.main_nsg will be created

```

+ resource "azurerm_network_security_group" "main_nsg" {
+   id          = (known after apply)
+   location    = "eastus"
+   name        = "demo-nsg"
+   resource_group_name = "Azuredevops"
+   security_rule = [
+     {

```

```

+ access = "Allow"
+ destination_address_prefix = "*"
+ destination_address_prefixes = []
+ destination_application_security_group_ids = []
+ destination_port_range = "80"
+ destination_port_ranges = []
+ direction = "Inbound"
+ name = "Allow-HTTP-From-LB"
+ priority = 200
+ protocol = "Tcp"
+ source_address_prefix = "AzureLoadBalancer"
+ source_address_prefixes = []
+ source_application_security_group_ids = []
+ source_port_range = "*"
+ source_port_ranges = []
# (1 unchanged attribute hidden)
},
+ {
+ access = "Allow"
+ destination_address_prefix = "VirtualNetwork"
+ destination_address_prefixes = []
+ destination_application_security_group_ids = []
+ destination_port_range = "*"
+ destination_port_ranges = []
+ direction = "Inbound"
+ name = "Allow-VNet-Inbound"
+ priority = 300
+ protocol = "*"
+ source_address_prefix = "VirtualNetwork"
+ source_address_prefixes = []
+ source_application_security_group_ids = []
+ source_port_range = "*"
+ source_port_ranges = []
# (1 unchanged attribute hidden)
},
+ {
+ access = "Allow"
+ destination_address_prefix = "VirtualNetwork"
+ destination_address_prefixes = []
+ destination_application_security_group_ids = []
+ destination_port_range = "*"
+ destination_port_ranges = []
+ direction = "Outbound"
+ name = "Allow-VNet-Outbound"
+ priority = 400
+ protocol = "*"
+ source_address_prefix = "VirtualNetwork"
+ source_address_prefixes = []
+ source_application_security_group_ids = []
+ source_port_range = "*"
+ source_port_ranges = []
# (1 unchanged attribute hidden)
},
+ {

```

```

+ access = "Deny"
+ destination_address_prefix = "*"
+ destination_address_prefixes = []
+ destination_application_security_group_ids = []
+ destination_port_range = "*"
+ destination_port_ranges = []
+ direction = "Inbound"
+ name = "Deny-Internet-Inbound"
+ priority = 100
+ protocol = "*"
+ source_address_prefix = "Internet"
+ source_address_prefixes = []
+ source_application_security_group_ids = []
+ source_port_range = "*"
+ source_port_ranges = []
  # (1 unchanged attribute hidden)
},
]
}

```

azurerm_public_ip.main_public_ip will be created

```

+ resource "azurerm_public_ip" "main_public_ip" {
+   allocation_method = "Dynamic"
+   ddos_protection_mode = "VirtualNetworkInherited"
+   fqdn = (known after apply)
+   id = (known after apply)
+   idle_timeout_in_minutes = 4
+   ip_address = (known after apply)
+   ip_version = "IPv4"
+   location = "eastus"
+   name = "demo-public-ip"
+   resource_group_name = "Azuredevops"
+   sku = "Basic"
+   sku_tier = "Regional"
}

```

azurerm_subnet.main_subnet will be created

```

+ resource "azurerm_subnet" "main_subnet" {
+   address_prefixes = [
+     "10.0.1.0/24",
+   ]
+   default_outbound_access_enabled = true
+   id = (known after apply)
+   name = "demo-subnet"
+   private_endpoint_network_policies = "Disabled"
+   private_link_service_network_policies_enabled = true
+   resource_group_name = "Azuredevops"
+   virtual_network_name = "demo-vnet"
}

```

azurerm_subnet_network_security_group_association.main_assoc will be created

```

+ resource "azurerm_subnet_network_security_group_association" "main_assoc" {
+   id = (known after apply)
+   network_security_group_id = (known after apply)
}

```



```

+ subnet_id          = (known after apply)
}

# azurerm_virtual_machine_data_disk_attachment.main_data_disk_attach will be created
+ resource "azurerm_virtual_machine_data_disk_attachment" "main_data_disk_attach" {
+   caching          = "ReadWrite"
+   create_option     = "Attach"
+   id               = (known after apply)
+   lun              = 0
+   managed_disk_id   = (known after apply)
+   virtual_machine_id = (known after apply)
+   write_accelerator_enabled = false
}

# azurerm_virtual_network.main_vnet will be created
+ resource "azurerm_virtual_network" "main_vnet" {
+   address_space      = [
+     "10.0.0.0/16",
+   ]
+   dns_servers        = (known after apply)
+   guid               = (known after apply)
+   id                 = (known after apply)
+   location            = "eastus"
+   name                = "demo-vnet"
+   private_endpoint_vnet_policies = "Disabled"
+   resource_group_name = "Azuredevops"
+   subnet              = (known after apply)
}

```

Plan: 13 to add, 0 to change, 0 to destroy.
 pjsaha@web-svr:~/laC/terraform-template\$

terraform apply solution.plan

```

pjsaha@web-svr:~/laC/terraform-template$ terraform apply solution.plan
azurerm_public_ip.main_public_ip: Creating...
azurerm_managed_disk.main_data_disk: Creating...
azurerm_availability_set.main_avset: Creating...
azurerm_virtual_network.main_vnet: Creating...
azurerm_network_security_group.main_nsg: Creating...
azurerm_availability_set.main_avset: Creation complete after 2s [id=/subscriptions/
456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/
Microsoft.Compute/availabilitySets/demo-avset]
azurerm_public_ip.main_public_ip: Creation complete after 3s [id=/subscriptions/
456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/
Microsoft.Network/publicIPAddresses/demo-public-ip]
azurerm_network_security_group.main_nsg: Creation complete after 3s [id=/subscriptions/
456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/
Microsoft.Network/networkSecurityGroups/demo-nsg]
azurerm_lb.main_lb: Creating...

```

azurerm_managed_disk.main_data_disk: Creation complete after 5s [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Compute/disks/demo-datadisk]
azurerm_virtual_network.main_vnet: Creation complete after 6s [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/demo-vnet]
azurerm_subnet.main_subnet: Creating...
azurerm_subnet.main_subnet: Creation complete after 5s [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/demo-vnet/subnets/demo-subnet]
azurerm_subnet_network_security_group_association.main_assoc: Creating...
azurerm_network_interface.main_nic: Creating...
azurerm_lb.main_lb: Still creating... [00m10s elapsed]
azurerm_lb.main_lb: Creation complete after 12s [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb]
azurerm_lb_backend_address_pool.main_bepool: Creating...
azurerm_subnet_network_security_group_association.main_assoc: Creation complete after 5s [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/demo-vnet/subnets/demo-subnet]
azurerm_network_interface.main_nic: Still creating... [00m10s elapsed]
azurerm_lb_backend_address_pool.main_bepool: Still creating... [00m10s elapsed]
azurerm_network_interface.main_nic: Creation complete after 17s [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/networkInterfaces/demo-nic]
azurerm_linux_virtual_machine.main_vm: Creating...
azurerm_lb_backend_address_pool.main_bepool: Creation complete after 16s [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb/backendAddressPools/demo-bepool]
azurerm_network_interface_backend_address_pool_association.main_nic_lb_assoc: Creating...
azurerm_network_interface_backend_address_pool_association.main_nic_lb_assoc: Creation complete after 3s [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/networkInterfaces/demo-nic/ipConfigurations/internal/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb/backendAddressPools/demo-bepool]
azurerm_linux_virtual_machine.main_vm: Still creating... [00m10s elapsed]
azurerm_linux_virtual_machine.main_vm: Still creating... [00m20s elapsed]
azurerm_linux_virtual_machine.main_vm: Still creating... [00m30s elapsed]
azurerm_linux_virtual_machine.main_vm: Still creating... [00m40s elapsed]
azurerm_linux_virtual_machine.main_vm: Creation complete after 48s [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Compute/virtualMachines/demo-vm]
azurerm_virtual_machine_data_disk_attachment.main_data_disk_attach: Creating...
azurerm_virtual_machine_data_disk_attachment.main_data_disk_attach: Creation complete after 8s [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Compute/virtualMachines/demo-vm/dataDisks/demo-datadisk]

Apply complete! Resources: 13 added, 0 changed, 0 destroyed.

Terraform destroy

pjsaha@web-svr:~/laC/terraform-template\$ terraform destroy

var.admin_password

Admin password for the VM

Enter a value:

var.client_id

The user id of the Service Principal identity that terraform will run under

Enter a value: a150f3db-9352-4bc0-9bea-ae879693a190

var.client_secret

The password/client_secret of the Service Principal identity that terraform will run under

Enter a value: pfa8Q~6.rymPq-2XhBj0V5B0tWtWx1BSi0xiPb4N

var.subscription_id

The subscription id of that is in scope for this Azure Policy Definition

Enter a value: 456cc604-544c-45f8-99d0-c1b73aeec440

var.tenant_id

The tenant id of the Service Principal identity that terraform will run under

Enter a value: f958e84a-92b8-439f-a62d-4f45996b6d07

azurerm_virtual_network.main_vnet: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/demo-vnet]

azurerm_availability_set.main_avset: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Compute/availabilitySets/demo-avset]

data.azure_rm_image.packer_image: Reading...

azurerm_public_ip.main_public_ip: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/publicIPAddresses/demo-public-ip]

azurerm_managed_disk.main_data_disk: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Compute/disks/demo-datadisk]

azurerm_network_security_group.main_nsg: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/networkSecurityGroups/demo-nsg]

data.azure_rm_image.packer_image: Read complete after 0s [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Compute/images/packer-ubuntu-server]

azurerm_lb.main_lb: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb]

azurerm_subnet.main_subnet: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/demo-vnet/subnets/demo-subnet]

azurerm_lb_backend_address_pool.main_bepool: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb/backendAddressPools/demo-bepool]
 azurerm_subnet_network_security_group_association.main_assoc: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/demo-vnet/subnets/demo-subnet]
 azurerm_network_interface.main_nic: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/networkInterfaces/demo-nic]
 azurerm_network_interface_backend_address_pool_association.main_nic_lb_assoc: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/networkInterfaces/demo-nic/ipConfigurations/internal/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb/backendAddressPools/demo-bepool]
 azurerm_linux_virtual_machine.main_vm: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Compute/virtualMachines/demo-vm]
 azurerm_virtual_machine_data_disk_attachment.main_data_disk_attach: Refreshing state... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Compute/virtualMachines/demo-vm/dataDisks/demo-datadisk]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

- destroy

Terraform will perform the following actions:

```
# azurerm_availability_set.main_avset will be destroyed
- resource "azurerm_availability_set" "main_avset" {
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Compute/availabilitySets/demo-avset" -> null
  - location = "eastus" -> null
  - managed = true -> null
  - name = "demo-avset" -> null
  - platform_fault_domain_count = 2 -> null
  - platform_update_domain_count = 2 -> null
  - resource_group_name = "Azuredevops" -> null
  - tags = {} -> null
}

# azurerm_lb.main_lb will be destroyed
- resource "azurerm_lb" "main_lb" {
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb" -> null
  - location = "eastus" -> null
  - name = "demo-lb" -> null
  - private_ip_addresses = [] -> null
  - resource_group_name = "Azuredevops" -> null
  - sku = "Basic" -> null
  - sku_tier = "Regional" -> null
  - tags = {} -> null
  # (2 unchanged attributes hidden)
```

```

- frontend_ip_configuration {
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb/frontendIPConfigurations/PublicIPAddress" -> null
  - inbound_nat_rules = [] -> null
  - load_balancer_rules = [] -> null
  - name = "PublicIPAddress" -> null
  - outbound_rules = [] -> null
  - private_ip_address_allocation = "Dynamic" -> null
  - public_ip_address_id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/publicIPAddresses/demo-public-ip" -> null
  - zones = [] -> null
  # (5 unchanged attributes hidden)
}
}

```

```

# azurerm_lb_backend_address_pool.main_bepool will be destroyed
- resource "azurerm_lb_backend_address_pool" "main_bepool" {
  - backend_ip_configurations = [
    - "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/networkInterfaces/demo-nic/ipConfigurations/internal",
  ] -> null
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb/backendAddressPools/demo-bepool" -> null
  - inbound_nat_rules = [] -> null
  - load_balancing_rules = [] -> null
  - loadbalancer_id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb" -> null
  - name = "demo-bepool" -> null
  - outbound_rules = [] -> null
  # (2 unchanged attributes hidden)
}

```

```

# azurerm_linux_virtual_machine.main_vm will be destroyed
- resource "azurerm_linux_virtual_machine" "main_vm" {
  - admin_password = (sensitive value) -> null
  - admin_username = "pjsaha" -> null
  - allow_extension_operations = true -> null
  - availability_set_id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Compute/availabilitySets/DEMO-AVSET" -> null
  - bypass_platform_safety_checks_on_user_schedule_enabled = false -> null
  - computer_name = "demo-vm" -> null
  - disable_password_authentication = false -> null
  - encryption_at_host_enabled = false -> null
  - extensions_time_budget = "PT1H30M" -> null
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Compute/virtualMachines/demo-vm" -> null
  - location = "eastus" -> null
}

```

```

- max_bid_price = -1 -> null
- name = "demo-vm" -> null
- network_interface_ids = [
  - "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/
Azuredevops/providers/Microsoft.Network/networkInterfaces/demo-nic",
] -> null
- patch_assessment_mode = "ImageDefault" -> null
- patch_mode = "ImageDefault" -> null
- platform_fault_domain = -1 -> null
- priority = "Regular" -> null
- private_ip_address = "10.0.1.4" -> null
- private_ip_addresses = [
  - "10.0.1.4",
] -> null
- provision_vm_agent = true -> null
- public_ip_addresses = [] -> null
- resource_group_name = "Azuredevops" -> null
- secure_boot_enabled = false -> null
- size = "Standard_D2s_v3" -> null
- source_image_id = "/subscriptions/456cc604-544c-45f8-99d0-
c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Compute/images/packer-
ubuntu-server" -> null
- tags = {
  - "Project" = "Udacity-Costco-Cloud-Infrastructure"
} -> null
- virtual_machine_id = "c9a5b46c-8b39-4e60-8fca-e612798c105f"
-> null
- vm_agent_platform_updates_enabled = false -> null
- vtpm_enabled = false -> null
# (13 unchanged attributes hidden)

- os_disk {
  - caching = "ReadWrite" -> null
  - disk_size_gb = 30 -> null
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/
resourceGroups/Azuredevops/providers/Microsoft.Compute/disks/demo-osdisk" -> null
  - name = "demo-osdisk" -> null
  - storage_account_type = "Standard_LRS" -> null
  - write_accelerator_enabled = false -> null
  # (3 unchanged attributes hidden)
}
}

# azurerm_managed_disk.main_data_disk will be destroyed
- resource "azurerm_managed_disk" "main_data_disk" {
  - create_option = "Empty" -> null
  - disk_iops_read_only = 0 -> null
  - disk_iops_read_write = 500 -> null
  - disk_mbps_read_only = 0 -> null
  - disk_mbps_read_write = 60 -> null
  - disk_size_gb = 64 -> null
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/
resourceGroups/Azuredevops/providers/Microsoft.Compute/disks/demo-datadisk" -> null
  - location = "eastus" -> null

```

```

- max_shares                = 0 -> null
- name                      = "demo-datadisk" -> null
- network_access_policy     = "AllowAll" -> null
- on_demand_bursting_enabled = false -> null
- optimized_frequent_attach_enabled = false -> null
- performance_plus_enabled  = false -> null
- public_network_access_enabled = true -> null
- resource_group_name       = "Azuredevops" -> null
- storage_account_type      = "Standard_LRS" -> null
- tags                      = {} -> null
- trusted_launch_enabled    = false -> null
- upload_size_bytes         = 0 -> null
  # (14 unchanged attributes hidden)
}

# azurerm_network_interface.main_nic will be destroyed
- resource "azurerm_network_interface" "main_nic" {
  - accelerated_networking_enabled = false -> null
  - applied_dns_servers            = [] -> null
  - dns_servers                   = [] -> null
  - id                           = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/
resourceGroups/Azuredevops/providers/Microsoft.Network/networkInterfaces/demo-nic" ->
null
  - internal_domain_name_suffix   = "vjpb0fsv2l3u1kbjiwp0bumrpf.bx.internal.cloudapp.net"
-> null
  - ip_forwarding_enabled        = false -> null
  - location                     = "eastus" -> null
  - mac_address                  = "00-0D-3A-8C-26-44" -> null
  - name                         = "demo-nic" -> null
  - private_ip_address           = "10.0.1.4" -> null
  - private_ip_addresses         = [
    - "10.0.1.4",
  ] -> null
  - resource_group_name          = "Azuredevops" -> null
  - tags                        = {} -> null
  - virtual_machine_id           = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/
resourceGroups/Azuredevops/providers/Microsoft.Compute/virtualMachines/demo-vm" -> null
  # (4 unchanged attributes hidden)

  - ip_configuration {
    - name                      = "internal" -> null
    - primary                   = true -> null
    - private_ip_address        = "10.0.1.4" -> null
    - private_ip_address_allocation = "Dynamic" -> null
    - private_ip_address_version = "IPv4" -> null
    - subnet_id                 = "/subscriptions/456cc604-544c-45f8-99d0-
c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/
demo-vnet/subnets/demo-subnet" -> null
    # (2 unchanged attributes hidden)
  }
}

# azurerm_network_interface_backend_address_pool_association.main_nic_lb_assoc will be
destroyed

```

```

- resource "azurerm_network_interface_backend_address_pool_association"
"main_nic_lb_assoc" {
  - backend_address_pool_id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/
resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb/
backendAddressPools/demo-bepool" -> null
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/
resourceGroups/Azuredevops/providers/Microsoft.Network/networkInterfaces/demo-nic/
ipConfigurations/internal/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/
resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb/
backendAddressPools/demo-bepool" -> null
  - ip_configuration_name = "internal" -> null
  - network_interface_id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/
resourceGroups/Azuredevops/providers/Microsoft.Network/networkInterfaces/demo-nic" ->
null
}

```

azurerm_network_security_group.main_nsg will be destroyed

```

- resource "azurerm_network_security_group" "main_nsg" {
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/
resourceGroups/Azuredevops/providers/Microsoft.Network/networkSecurityGroups/demo-
nsg" -> null
  - location = "eastus" -> null
  - name = "demo-nsg" -> null
  - resource_group_name = "Azuredevops" -> null
  - security_rule = [
    - {
      - access = "Allow"
      - destination_address_prefix = "*"
      - destination_address_prefixes = []
      - destination_application_security_group_ids = []
      - destination_port_range = "80"
      - destination_port_ranges = []
      - direction = "Inbound"
      - name = "Allow-HTTP-From-LB"
      - priority = 200
      - protocol = "Tcp"
      - source_address_prefix = "AzureLoadBalancer"
      - source_address_prefixes = []
      - source_application_security_group_ids = []
      - source_port_range = "*"
      - source_port_ranges = []
      # (1 unchanged attribute hidden)
    },
    - {
      - access = "Allow"
      - destination_address_prefix = "VirtualNetwork"
      - destination_address_prefixes = []
      - destination_application_security_group_ids = []
      - destination_port_range = "*"
      - destination_port_ranges = []
      - direction = "Inbound"
      - name = "Allow-VNet-Inbound"
      - priority = 300
      - protocol = "*"
    }
  ]
}

```



```

- source_address_prefix          = "VirtualNetwork"
- source_address_prefixes        = []
- source_application_security_group_ids = []
- source_port_range              = "*"
- source_port_ranges             = []
  # (1 unchanged attribute hidden)
},
- {
  - access                        = "Allow"
  - destination_address_prefix    = "VirtualNetwork"
  - destination_address_prefixes  = []
  - destination_application_security_group_ids = []
  - destination_port_range        = "*"
  - destination_port_ranges       = []
  - direction                     = "Outbound"
  - name                          = "Allow-VNet-Outbound"
  - priority                      = 400
  - protocol                     = "*"
  - source_address_prefix         = "VirtualNetwork"
  - source_address_prefixes       = []
  - source_application_security_group_ids = []
  - source_port_range             = "*"
  - source_port_ranges            = []
    # (1 unchanged attribute hidden)
  },
- {
  - access                        = "Deny"
  - destination_address_prefix    = "*"
  - destination_address_prefixes  = []
  - destination_application_security_group_ids = []
  - destination_port_range        = "*"
  - destination_port_ranges       = []
  - direction                     = "Inbound"
  - name                          = "Deny-Internet-Inbound"
  - priority                      = 100
  - protocol                     = "*"
  - source_address_prefix         = "Internet"
  - source_address_prefixes       = []
  - source_application_security_group_ids = []
  - source_port_range             = "*"
  - source_port_ranges            = []
    # (1 unchanged attribute hidden)
  },
] -> null
- tags = {} -> null
}

# azurerm_public_ip.main_public_ip will be destroyed
- resource "azurerm_public_ip" "main_public_ip" {
  - allocation_method = "Dynamic" -> null
  - ddos_protection_mode = "VirtualNetworkInherited" -> null
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/
resourceGroups/Azuredevops/providers/Microsoft.Network/publicIPAddresses/demo-public-
ip" -> null

```

```

- idle_timeout_in_minutes = 4 -> null
- ip_tags                  = {} -> null
- ip_version               = "IPv4" -> null
- location                 = "eastus" -> null
- name                     = "demo-public-ip" -> null
- resource_group_name      = "Azuredevops" -> null
- sku                      = "Basic" -> null
- sku_tier                  = "Regional" -> null
- tags                     = {} -> null
- zones                    = [] -> null
  # (2 unchanged attributes hidden)
}

# azurerm_subnet.main_subnet will be destroyed
- resource "azurerm_subnet" "main_subnet" {
  - address_prefixes          = [
    - "10.0.1.0/24",
  ] -> null
  - default_outbound_access_enabled = true -> null
  - id                        = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/demo-vnet/subnets/demo-subnet" -> null
  - name                      = "demo-subnet" -> null
  - private_endpoint_network_policies = "Disabled" -> null
  - private_link_service_network_policies_enabled = true -> null
  - resource_group_name        = "Azuredevops" -> null
  - service_endpoint_policy_ids = [] -> null
  - service_endpoints           = [] -> null
  - virtual_network_name        = "demo-vnet" -> null
}

# azurerm_subnet_network_security_group_association.main_assoc will be destroyed
- resource "azurerm_subnet_network_security_group_association" "main_assoc" {
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/demo-vnet/subnets/demo-subnet" -> null
  - network_security_group_id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/networkSecurityGroups/demo-nsg" -> null
  - subnet_id                 = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/demo-vnet/subnets/demo-subnet" -> null
}

# azurerm_virtual_machine_data_disk_attachment.main_data_disk_attach will be destroyed
- resource "azurerm_virtual_machine_data_disk_attachment" "main_data_disk_attach" {
  - caching          = "ReadWrite" -> null
  - create_option     = "Attach" -> null
  - id               = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Compute/virtualMachines/demo-vm/dataDisks/demo-datadisk" -> null
  - lun              = 0 -> null
  - managed_disk_id   = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Compute/disks/demo-datadisk" -> null
}

```

```

- virtual_machine_id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/
resourceGroups/Azuredevops/providers/Microsoft.Compute/virtualMachines/demo-vm" -> null
- write_accelerator_enabled = false -> null
}

# azurerm_virtual_network.main_vnet will be destroyed
- resource "azurerm_virtual_network" "main_vnet" {
  - address_space = [
    - "10.0.0.0/16",
  ] -> null
  - dns_servers = [] -> null
  - flow_timeout_in_minutes = 0 -> null
  - guid = "161d5eaa-e255-4dfb-a829-459fa0d1917d" -> null
  - id = "/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/
resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/demo-vnet" -> null
  - location = "eastus" -> null
  - name = "demo-vnet" -> null
  - private_endpoint_vnet_policies = "Disabled" -> null
  - resource_group_name = "Azuredevops" -> null
  - subnet = [
    - {
      - address_prefixes = [
        - "10.0.1.0/24",
      ]
      - default_outbound_access_enabled = true
      - delegation = []
      - id = "/subscriptions/456cc604-544c-45f8-99d0-
c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/
demo-vnet/subnets/demo-subnet"
      - name = "demo-subnet"
      - private_endpoint_network_policies = "Disabled"
      - private_link_service_network_policies_enabled = true
      - security_group = "/subscriptions/456cc604-544c-45f8-99d0-
c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/
networkSecurityGroups/demo-nsg"
      - service_endpoint_policy_ids = []
      - service_endpoints = []
      # (1 unchanged attribute hidden)
    },
  ] -> null
  - tags = {} -> null
  # (2 unchanged attributes hidden)
}

```

Plan: 0 to add, 0 to change, 13 to destroy.

Do you really want to destroy all resources?

Terraform will destroy all your managed infrastructure, as shown above.

There is no undo. Only 'yes' will be accepted to confirm.

Enter a value: yes

azurerm_network_interface_backend_address_pool_association.main_nic_lb_assoc:
Destroying... [id=/subscriptions/456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/

Azuredevops/providers/Microsoft.Network/networkInterfaces/demo-nic/ipConfigurations/
internal/subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/
Azuredevops/providers/Microsoft.Network/loadBalancers/demo-lb/backendAddressPools/
demo-bepool]
azurerm_subnet_network_security_group_association.main_assoc: Destroying... [id=/
subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/
providers/Microsoft.Network/virtualNetworks/demo-vnet/subnets/demo-subnet]
azurerm_virtual_machine_data_disk_attachment.main_data_disk_attach: Destroying... [id=/
subscriptions/456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/
providers/Microsoft.Compute/virtualMachines/demo-vm/dataDisks/demo-datadisk]
azurerm_network_interface_backend_address_pool_association.main_nic_lb_assoc:
Destruction complete after 4s
azurerm_lb_backend_address_pool.main_bepool: Destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/
Microsoft.Network/loadBalancers/demo-lb/backendAddressPools/demo-bepool]
azurerm_subnet_network_security_group_association.main_assoc: Destruction complete after
6s
azurerm_network_security_group.main_nsg: Destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/
Microsoft.Network/networkSecurityGroups/demo-nsg]
azurerm_virtual_machine_data_disk_attachment.main_data_disk_attach: Destruction complete
after 8s
azurerm_managed_disk.main_data_disk: Destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/
Microsoft.Compute/disks/demo-datadisk]
azurerm_linux_virtual_machine.main_vm: Destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-c1b73aeec440/resourceGroups/Azuredevops/providers/
Microsoft.Compute/virtualMachines/demo-vm]
azurerm_lb_backend_address_pool.main_bepool: Destruction complete after 5s
azurerm_lb.main_lb: Destroying... [id=/subscriptions/456cc604-544c-45f8-99d0-
c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/loadBalancers/
demo-lb]
azurerm_network_security_group.main_nsg: Still destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-...Network/networkSecurityGroups/demo-nsg, 00m10s elapsed]
azurerm_network_security_group.main_nsg: Destruction complete after 11s
azurerm_managed_disk.main_data_disk: Still destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-.../Microsoft.Compute/disks/demo-datadisk, 00m10s elapsed]
azurerm_linux_virtual_machine.main_vm: Still destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-...rosoft.Compute/virtualMachines/demo-vm, 00m10s elapsed]
azurerm_lb.main_lb: Still destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-...icrosoft.Network/loadBalancers/demo-lb, 00m10s elapsed]
azurerm_managed_disk.main_data_disk: Destruction complete after 11s
azurerm_lb.main_lb: Destruction complete after 11s
azurerm_public_ip.main_public_ip: Destroying... [id=/subscriptions/456cc604-544c-45f8-99d0-
c1b73aeec440/resourceGroups/Azuredevops/providers/Microsoft.Network/publicIPAddresses/
demo-public-ip]
azurerm_linux_virtual_machine.main_vm: Still destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-...rosoft.Compute/virtualMachines/demo-vm, 00m20s elapsed]
azurerm_public_ip.main_public_ip: Still destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-...twork/publicIPAddresses/demo-public-ip, 00m10s elapsed]
azurerm_public_ip.main_public_ip: Destruction complete after 11s
azurerm_linux_virtual_machine.main_vm: Still destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-...rosoft.Compute/virtualMachines/demo-vm, 00m30s elapsed]
azurerm_linux_virtual_machine.main_vm: Destruction complete after 33s

azurerm_availability_set.main_avset: Destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/
Microsoft.Compute/availabilitySets/demo-avset]
azurerm_network_interface.main_nic: Destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/
Microsoft.Network/networkInterfaces/demo-nic]
azurerm_availability_set.main_avset: Destruction complete after 1s
azurerm_network_interface.main_nic: Still destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-...oft.Network/networkInterfaces/demo-nic, 00m10s elapsed]
azurerm_network_interface.main_nic: Destruction complete after 12s
azurerm_subnet.main_subnet: Destroying... [id=/subscriptions/456cc604-544c-45f8-99d0-
c1b73aee440/resourceGroups/Azuredevops/providers/Microsoft.Network/virtualNetworks/
demo-vnet/subnets/demo-subnet]
azurerm_subnet.main_subnet: Still destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-...Networks/demo-vnet/subnets/demo-subnet, 00m10s elapsed]
azurerm_subnet.main_subnet: Destruction complete after 10s
azurerm_virtual_network.main_vnet: Destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-c1b73aee440/resourceGroups/Azuredevops/providers/
Microsoft.Network/virtualNetworks/demo-vnet]
azurerm_virtual_network.main_vnet: Still destroying... [id=/subscriptions/
456cc604-544c-45f8-99d0-...soft.Network/virtualNetworks/demo-vnet, 00m10s elapsed]
azurerm_virtual_network.main_vnet: Destruction complete after 11s

Destroy complete! Resources: 13 destroyed.
pjsaha@web-svr:~/laC/terraform-template\$