Step-01: Introduction

- Understand how to define outputs when we are using the Meta-Argument count
- What is Splat Expression ?
- Why do we ned to use in outputs when we use count ?
- **Splat Expression:** A splat expression provides a more concise way to express a common operation that could otherwise be performed with a for expression.
- The special [*] symbol iterates over all of the elements of the list given to its left and accesses from each one the attribute name given on its right.

```
# With for expression
[for o in var.list : o.id]
# With Splat Expression [*]
var.list[*].id
```

Step-02: c4-virtual-networ.tf

• Add Resource Meta-Argument count to azurerm_virtual_network resource

Step-03: Execute Terraform Commands

```
# Initialize Terraform
terraform init
# Validate Terraform configuration files
terraform validate
# Observation
1. It should fail
# Sample Output
AtinG-MacBook-Pro:terraform-manifests agupta$ terraform validate
| Error: Missing resource instance key
    on c5-outputs.tf line 16, in output "virtual network name":
    16: value = azurerm_virtual_network.myvnet.name
  Because azurerm_virtual_network.myvnet has "count" set, its attributes must be
  accessed on specific instances.
 For example, to correlate with indices of a referring resource, use:
    azurerm_virtual_network.myvnet[count.index]
AtinG-MacBook-Pro:terraform-manifests agupta$
```

Step-04: c5-outputs.tf

• Update Splat Expression for output named virtual_network_name

```
# 2. Output Values - Virtual Network
output "virtual_network_name" {
  description = "Virutal Network Name"
  value = azurerm_virtual_network.myvnet[*].name
}
```

Step-06: Execute Terraform Commands

```
# Validate Terraform configuration files
terraform validate
Observation: Should passs
# Format Terraform configuration files
terraform fmt
# Review the terraform plan
terraform plan
Observation: should pass
# Sample Output
Plan: 5 to add, 0 to change, 0 to destroy.
Changes to Outputs:
  + resource_group_id = (known after apply)
  + resource_group_name = "it-dev-rg"
  + virtual_network_name = [
     + "it-dev-vnet-0",
     + "it-dev-vnet-1",
     + "it-dev-vnet-2",
     + "it-dev-vnet-3",
# Create Resources (Optional)
terraform apply -auto-approve
# Observation
1. Should get all the virtual network names as a list
```

Step-07: Destroy Resources

```
# Destroy Resources
terraform destroy -auto-approve

# Clean-Up
rm -rf .terraform*
rm -rf terraform.tfstate*
```

References

• Terraform Output Values