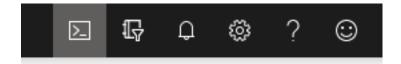


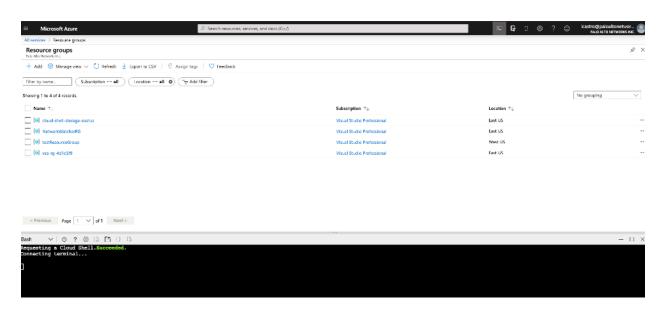
Create our virtual networks in two different regions according the instructions files.

Log in to the Azure portal at https://portal.azure.com.

# Step 1 – Open Azure Cloud Shell

## Click the right side bottom to access Cloud Shell





**Step 2 - Verify Terraform Version** 

Inside the Azure Cloud Shell type the following

#### \$ terraform -v

```
Bash V O ? O THE THE Succeeded.

Requesting a Cloud Shell.Succeeded.

Connecting terminal...

luis@Azure:~$ terraform -v

Terraform v0.12.23
+ provider.azurerm v2.3.0

Your version of Terraform is out of date! The latest version
is 0.12.24. You can update by downloading from https://www.terraform.io/downloads.html
luis@Azure:~$
```



## Step 3 - Verify Subscription ID

## Run the following command

\$az account list --query "[].{name:name, subscriptionId:id, tenantId:tenantId}"

Save the output in a text file

## **Step 4 - Setup Service Principal to use with Terraform**

Select the right account

\$ az account set --subscription 6bcf9eb8-9994-44d8-bd69-4bad91926bb5

Run the following command

\$ az ad sp create-for-rbac --role="Contributor"

Check the creation process and save the output in a text file

```
Your version of Terraform is out of date! The latest version is 0.12.24. You can update by downloading from https://www.terraform.io/downloads.html luis@Azure:~$ az ad sp create-for-rbac --role="Contributor"

Creating a role assignment under the scope of "/subscriptions/6bcf9eb8-9994-44d8-bd69-4bad91926bb5"

Retrying role assignment creation: 1/36

{
    "appId": "0e933552-e011-4671-8ade-493cf99833e7",
    "displayName": "azure-cli-2020-03-29-21-16-54",
    "name": "http://azure-cli-2020-03-29-21-16-54",
    "password": "70f9e903-321d-4b34-919c-c6514031fb69",
    "tenant": "66b66353-3b76-4e41-9dc3-fee328bd400e"
}
luis@Azure:~$
```



#### **Step 5 - Create the Terraform Variables**

Copy the following commands inside the Azure Cloud Shell, and from the last step change with values of: Subscription, appID, Password and Tenant

```
#!/bin/sh
echo "Setting environment variables for Terraform"
export ARM_SUBSCRIPTION_ID=your_subscription_id
export ARM_CLIENT_ID=your_appld
export ARM_CLIENT_SECRET=your_password
export ARM_TENANT_ID=your_tenant_id
```

# Step 6 - Create a Terraform Test File Using Vi or Nano create a test file with Terraform extension with the following content

#### \$ vi test.tf

Change the Name value for your username+terraform

# Change location for your designated location

```
provider "azurerm" {
    # The "feature" block is required for AzureRM provider 2.x.
    # If you are using version 1.x, the "features" block is not allowed.
    version = "~>2.0"
    features {}
}
resource "azurerm_resource_group" "rg" {
        name = "lcastro-terraform"
        location = "westus"
}
```



Exit and Save from vi with the following commands: ESC + : + WQ

# **Step 7 - Initialize the Terraform Deployment**

#### \$ terraform init

Verify is successfully initiated

```
luis@Azure:~$ vi test.tf
luis@Azure:~$ terraform init

Initializing the backend...

Initializing provider plugins...

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.
luis@Azure:~$ []
```

#### **Step 8 - Preview Terraform Actions**

#### \$ terraform plan

```
| Description |
```



# **Step 9 - Execute Terraform Plan**

\$ terraform apply

When prompted ask "yes" and hit Enter

# Verify steps and output

# **Step 10 - Verify Azure Resource Groups inside the Web Console**

Click Resource Groups and validate the Name and Location

