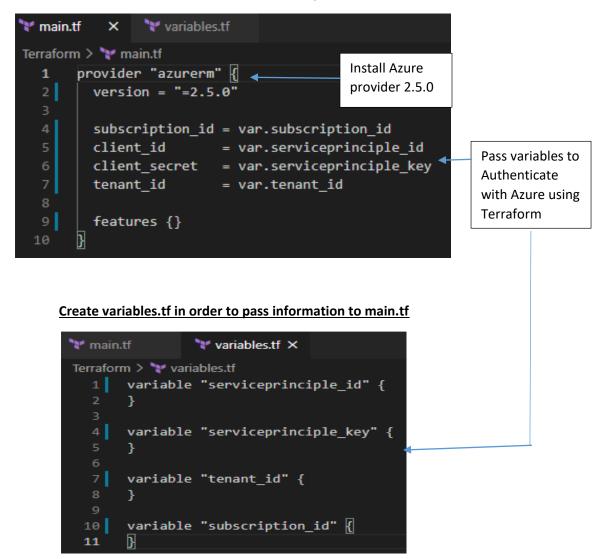
# **Terraform Init and Plan**

In this lesson we will learn how to create main.tf and variables.tf and how to initialize Azure provider for Terraform and how to use the plan command.

#### mkdir Terraform

cd .\Terraform\

# **Create main.tf and initialize Azure provider**



The command below initializes terraform and installs Azure provider plug-in:

#### terraform init

```
PS C:\Kuberneties\Azure-AKS\Terraform> terraform init

Initializing the backend...

Initializing provider plugins...
- Finding hashicorp/azurerm versions matching "2.5.0"...
- Installing hashicorp/azurerm v2.5.0...
- Installed hashicorp/azurerm v2.5.0 (signed by HashiCorp)

Terraform has created a lock file .terraform.lock.hcl to record the provider selections it made above. Include this file in your version control repository so that Terraform can guarantee to make the same selections by default when you run "terraform init" in the future.

Warning: Version constraints inside provider configuration blocks are deprecated on main.tf line 2, in provider "azurerm":

2: version = "=2.5.0"

Terraform 0.13 and earlier allowed provider version constraints inside the provider configuration block, but that is now deprecated and will be removed in a future version of Terraform. To silence this warning, move the provider version constraint into the required providers block.

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.
```

### Plan command

Plan command run the terraform in dry-run in order to It show as what terraform is about to do. We are using the variables that were saved in the previous lesson for the command to pass serviceprinciple\_id, serviceprinciple\_key, tenant\_id and subscription\_id which were defined in varibables.tf for main.tf. we do this for keeping this information out of the repository.

## terraform plan:

terraform plan -var serviceprinciple\_id=\$SERVICE\_PRINCIPAL -var serviceprinciple\_key="\$SERVICE\_PRINCIPAL\_SECRET" -var tenant\_id=\$TENTANT\_ID -var subscription\_id=\$SUBSCRIPTION

```
PS C:\Kuberneties\Azure-AKS\Terraform> terraform plan -var serviceprinciple_id=$SERVICE_PRINCIPAL -var serviceprinciple_key="$SERVICE_PRINCIPAL_SECRET" -var tenant_id=$TENTANT_ID -var subscription_id=$SUBSCRIPTION

No changes. Infrastructure is up-to-date.

This means that Terraform did not detect any differences between your configuration and real physical resources that exist. As a result, no actions need to be performed.

Warning: Version constraints inside provider configuration blocks are deprecated

on main.tf line 2, in provider "azurerm":

2: version = "=2.5.0"

Terraform 0.13 and earlier allowed provider version constraints inside the provider configuration block, but that is now deprecated and will be removed in a future version of Terraform. To silence this warning, move the provider version constraint into the required_providers block.

Activate Windows

Go to Settings to activate Windows.
```

#### Done!