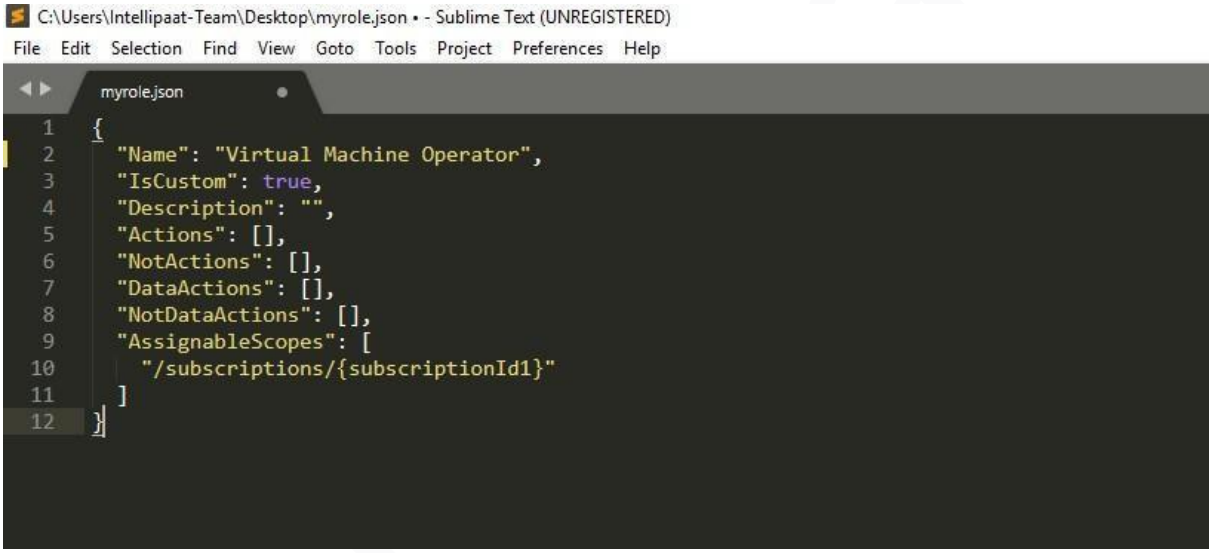
Module 8: Hands-On: Create a Custom Role Using Azure CLI

Go to the following link and copy the custom role example JSON template and create a JSON file with this code. Name this file as template.json

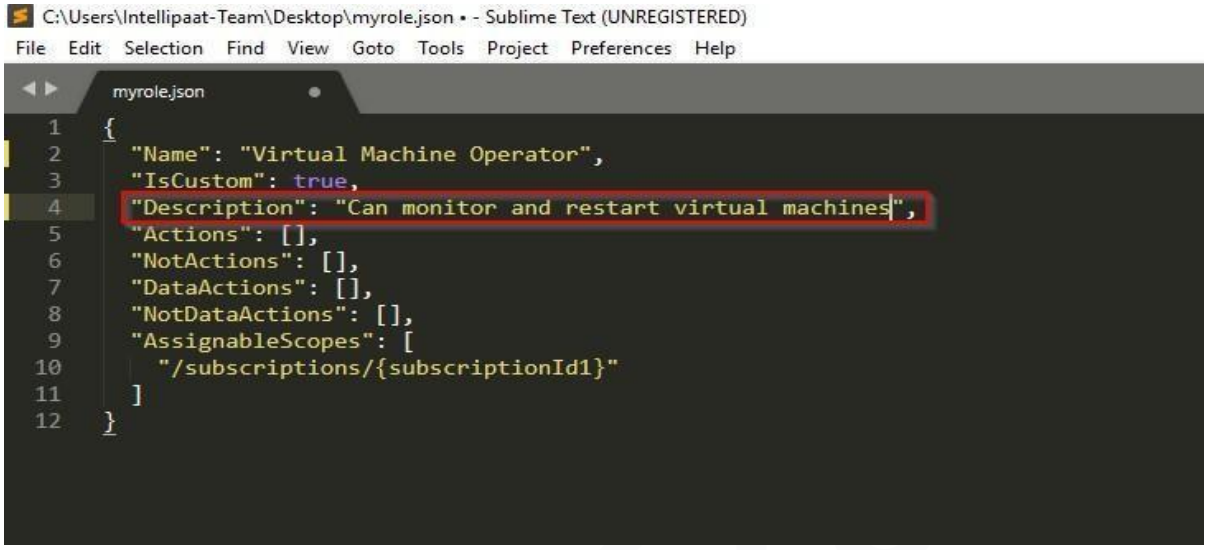
https://docs.microsoft.com/en-us/azure/role-based-access-control/tutorial-custom-role-cli #create-acustom-role

Note: We will edit this JSON template and define our own custom role with its custom permissions. The custom role that we will create will be called Virtual Machine Operator. This role will allow the user to start, stop or monitor VMs.

Open your JSON file in an editor and in the name field, provide the name of your custom role as “Virtual Machine Operator”



In the description field, give the description for your custom role as “Can monitor and restart virtual machines”



In the actions field, you define the operations that this role is allowed to do. Assign the following information in your actions field

```
"Microsoft.Storage/*/read",

"Microsoft.Network/*/read",

"Microsoft.Compute/*/read",

"Microsoft.Compute/virtualMachin

es/start/action",

"Microsoft.Compute/virtualMachin

es/restart/action",

"Microsoft.Authorization/*/read",

"Microsoft.ResourceHealth/availab
```


To learn about more actions that can be used, visit the following link: https://learn.microsoft.com/en-us/azure/role-based-access-control/resource-provider-operations#microsoftcompute

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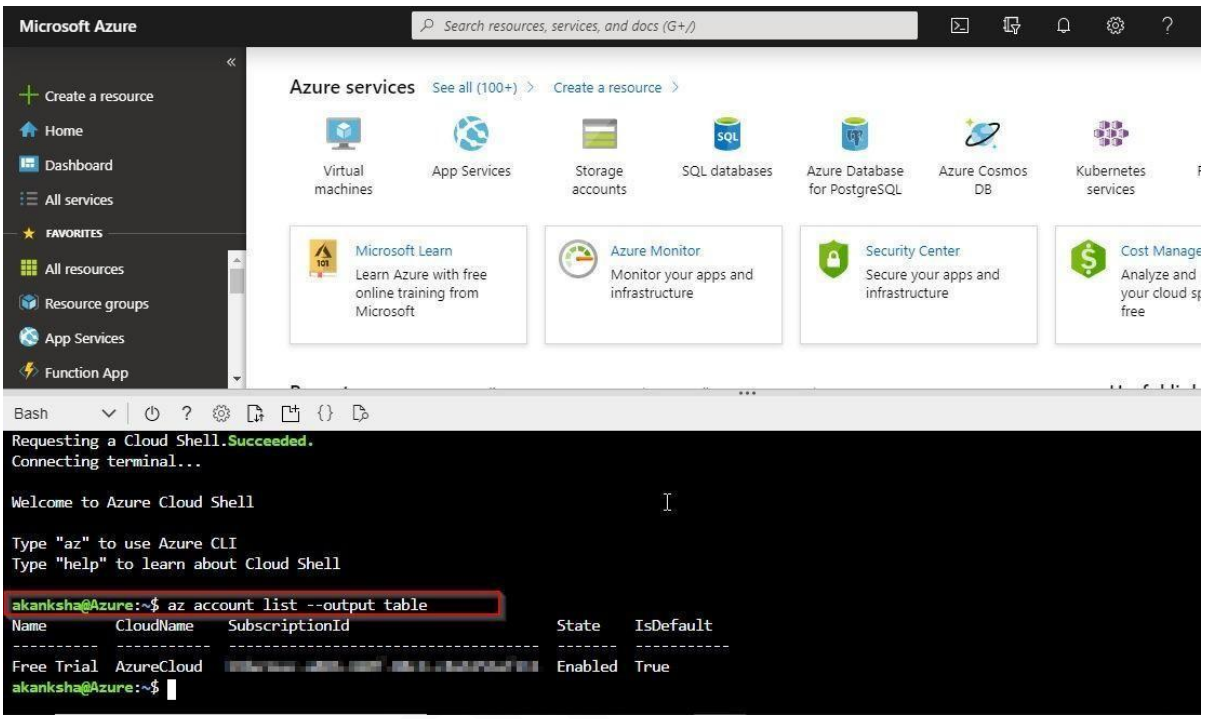
File Edit Selection Find View Goto Tools Project Preferences Help

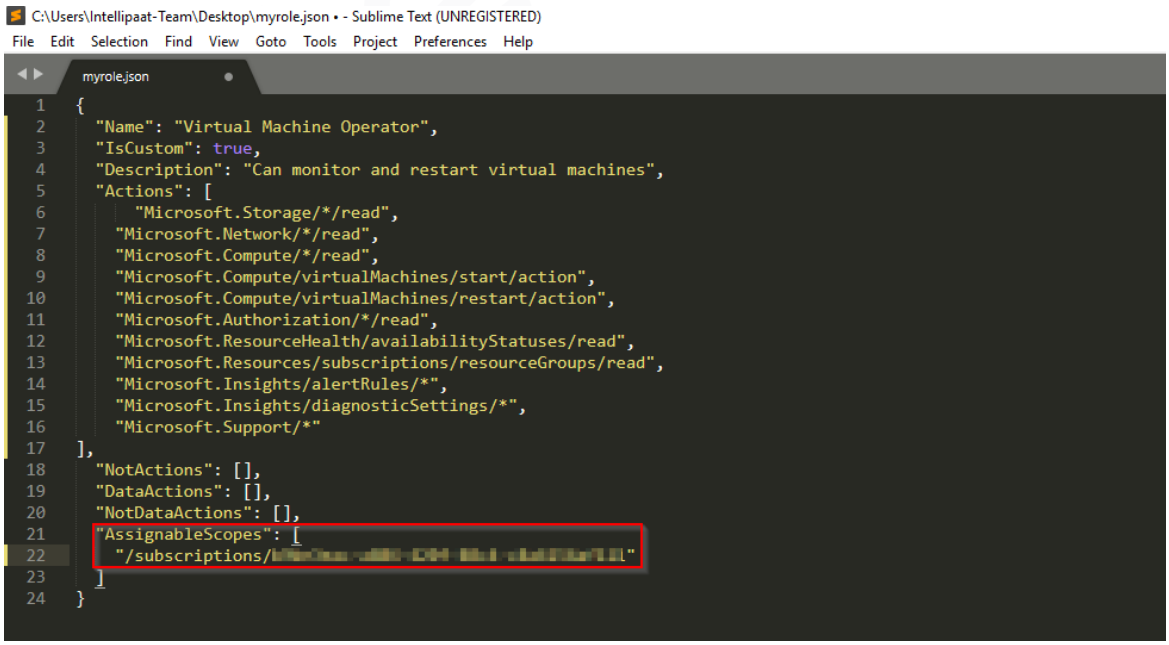
myrole.json

```
{
  "Name": "Virtual Machine Operator",
  "IsCustom": true,
  "Description": "Can monitor and restart virtual machines",
  "Actions": [
      "Microsoft.Storage/*/read",
    "Microsoft.Network/*/read",
    "Microsoft.Compute/*/read",
    "Microsoft.Compute/virtualMachines/start/action",
    "Microsoft.Compute/virtualMachines/restart/action",
    "Microsoft.Authorization/*/read",
    "Microsoft.ResourceHealth/availabilityStatuses/read",
    "Microsoft.Resources/subscriptions/resourceGroups/read",
    "Microsoft.Insights/alertRules/*",
    "Microsoft.Insights/diagnosticSettings/*",
    "Microsoft.Support/*"
],
  "NotActions": [],
  "DataActions": [],
  "NotDataActions": [],
  "AssignableScopes": [
    "/subscriptions/{subscriptionId1}"
  ]
}
```


In the assignable scopes field, you have to provide your subscription ID. You can get the subscription ID using the following command in your CLI (launch CLI from your portal):

az account list - output table

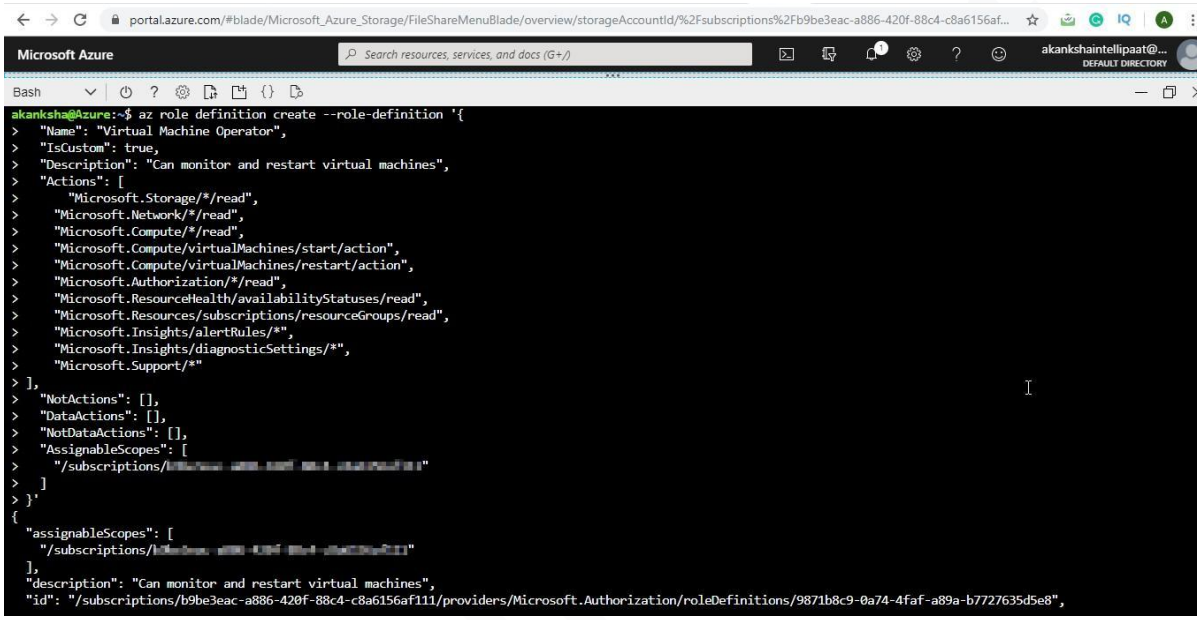




Save all the changes made to the JSON file. Go to Azure CLI and run the following command to create the custom role.

az role definition update - role-definition 'JSON script'

Note: Replace JSON script with your template.json script as shown in the following screenshot.



The new custom role is now available and can be assigned to users, groups, or service principals just like built-in roles.

