

Azure Practical Assessment

1. Observe Assigned Subscriptions and Azure Entra ID

Overview:

- View your Azure subscriptions.
- Create Azure Entra ID (Azure AD) test users and groups.
- Assign built-in and custom RBAC roles.
- Validate role assignments by testing user access.

Steps and Commands:

View assigned subscriptions:

```
bash
CopyEdit
az account list --output table
```

Create test user:

```
bash
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az ad user create --display-name "Test User" --user-principal-name
testuser@yourdomain.onmicrosoft.com --password "StrongP@ssword123"
```

Create test group:

```
bash
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az ad group create --display-name "TestGroup" --mail-nickname
"testgroup"
```

Add user to group:

```
bash
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az ad group member add --group "TestGroup" --member-id
<user-object-id>
```

Assign built-in RBAC role (Reader) to user:

```
bash
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az role assignment create --assignee
testuser@yourdomain.onmicrosoft.com --role Reader --scope
/subscriptions/<subscription-id>
```

Create a custom RBAC role JSON (customrole.json):

```
json
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```

```
{
  "Name": "CustomReader",
  "Description": "Custom role with read-only permissions",
  "Actions": [
    "Microsoft.Resources/subscriptions/resourceGroups/read",
    "Microsoft.Compute/virtualMachines/read"
  ],
  "NotActions": [],
  "AssignableScopes": [
    "/subscriptions/<subscription-id>"
  ]
}
```

Create custom role:

```
bash
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az role definition create --role-definition customrole.json
```

Assign custom role:

```
bash
CopyEdit
az role assignment create --assignee
testuser@yourdomain.onmicrosoft.com --role CustomReader --scope
/subscriptions/<subscription-id>
```

2. Create Virtual Machine and Virtual Network using Azure CLI

Overview:

- Create a virtual network with subnet.
- Deploy a VM attached to the subnet.

Commands:

Create VNet and Subnet:

```
bash
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az network vnet create \
  --resource-group MyResourceGroup \
  --name MyVnet \
  --address-prefix 10.0.0.0/16 \
  --subnet-name MySubnet \
  --subnet-prefix 10.0.1.0/24
```

Create VM attached to subnet:

```
bash
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az vm create \
  --resource-group MyResourceGroup \
  --name MyVM \
  --image UbuntuLTS \
  --admin-username azureuser \
```

