

## Lab: Managing Entra ID Identities with Azure Cloud Shell

### Objective

Trainees will manage Entra ID identities by creating and configuring users, groups, and permissions using PowerShell and Bash commands in Azure Cloud Shell.

### Pre-requisites

- Azure subscription access
- Azure Cloud Shell access

### Lab Steps

#### Task 1: User Management

1. **Launch Cloud Shell:** Access Azure Cloud Shell and select PowerShell.
2. **Create a New User:**
  - **PowerShell:**

```
New-AzADUser -UserPrincipalName "newuser@yourdomain.com" -  
DisplayName "New User" -PasswordProfile (New-Object -TypeName  
Microsoft.Open.AzureAD.Model.PasswordProfile -Property @{  
Password = "UserPassword" })
```

- **Bash:**

```
az ad user create --display-name "New User" --user-principal-name  
"newuser@yourdomain.com" --password "UserPassword"
```

3. **List Existing Users:**
  - **PowerShell:**

```
Get-AzADUser
```

- **Bash:**

```
az ad user list --output table
```

#### Task 2: Group Management

1. **Create a New Group:**
  - **PowerShell:**

```
New-AzADGroup -DisplayName "HR Team" -MailNickname "HRTeam"
```

- **Bash:**

```
az ad group create --display-name "HR Team" --mail-nickname  
"HRTeam"
```

## 2. Add a User to a Group:

- **PowerShell:**

```
Add-AzADGroupMember -TargetGroupDisplayName "HR Team" -  
MemberUserPrincipalName "newuser@yourdomain.com"
```

- **Bash:**

```
az ad group member add --group "HR Team" --member-id $(az ad user  
show --id "newuser@yourdomain.com" --query objectId -o tsv)
```

## Task 3: Permissions and Role Assignments

### 1. Assign a Role to a User:

- **PowerShell:**

```
New-AzRoleAssignment -RoleDefinitionName "Reader" -  
UserPrincipalName "newuser@yourdomain.com"
```

- **Bash:**

```
az role assignment create --assignee "newuser@yourdomain.com" --  
role "Reader"
```

## Task 4: Review and Clean Up

### 1. List Group Members:

- **PowerShell:**

```
Get-AzADGroupMember -TargetGroupDisplayName "HR Team"
```

- **Bash:**

```
az ad group member list --group "HR Team" --output table
```

### 2. Delete User and Group:

- **PowerShell:**

```
Remove-AzADUser -UserPrincipalName "newuser@yourdomain.com"  
Remove-AzADGroup -DisplayName "HR Team"
```

- **Bash:**

```
az ad user delete --id "newuser@yourdomain.com"  
az ad group delete --group "HR Team"
```