Creating users and groups in Active Directory (AD) using PowerShell is a common administrative task. Below are the basic steps and scripts to achieve this:

Creating a User in Active Directory

1. Open PowerShell as an Administrator.

2. Use the `New-ADUser` cmdlet to create a new user.

Here's a sample script to create a new user:

Powershell:

```
# Define user details
$firstName = "John"
$lastName = "Doe"
$userName = "jdoe"
$password = "P@ssw0rd!" | ConvertTo-SecureString -AsPlainText -Force
$ou = "OU=Users,DC=example,DC=com"

# Create the user
New-ADUser -Name "$firstName $lastName" `
    -GivenName $firstName `
    -Surname $lastName `
    -SamAccountName $userName `
    -UserPrincipalName "$userName@example.com" `
    -Path $ou `
    -AccountPassword $password `
    -Enabled $true `
    -PasswordNeverExpires $true `
    -ChangePasswordAtLogon $false
```

Creating a Group in Active Directory

1. Open PowerShell as an Administrator.

2. Use the `New-ADGroup` cmdlet to create a new group.

Here's a sample script to create a new group:

Powershell:

```
# Define group details

$groupName = "NewGroup"

$groupDescription = "This is a new security group"

$ou = "OU=Groups,DC=example,DC=com"


# Create the group

New-ADGroup -Name $groupName `

        -SamAccountName $groupName `

        -GroupCategory Security `

        -GroupScope Global `

        -Path $ou `

        -Description $groupDescription
```

Adding a User to a Group

To add a user to a group, you can use the `Add-ADGroupMember` cmdlet.

Powershell:

```
# Define user and group details

$userName = "jdoe"

$groupName = "NewGroup"


# Add the user to the group
```

Add-ADGroupMember -Identity $groupName -Members $userName

Summary

Using these PowerShell cmdlets, you can efficiently manage your Active Directory users and groups. Here are the key steps:

1. Create a user using `New-ADUser`.

2. Create a group using `New-ADGroup`.

3. Add a user to a group using `Add-ADGroupMember`.