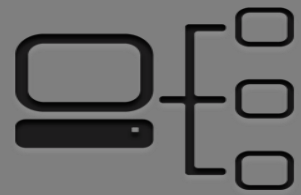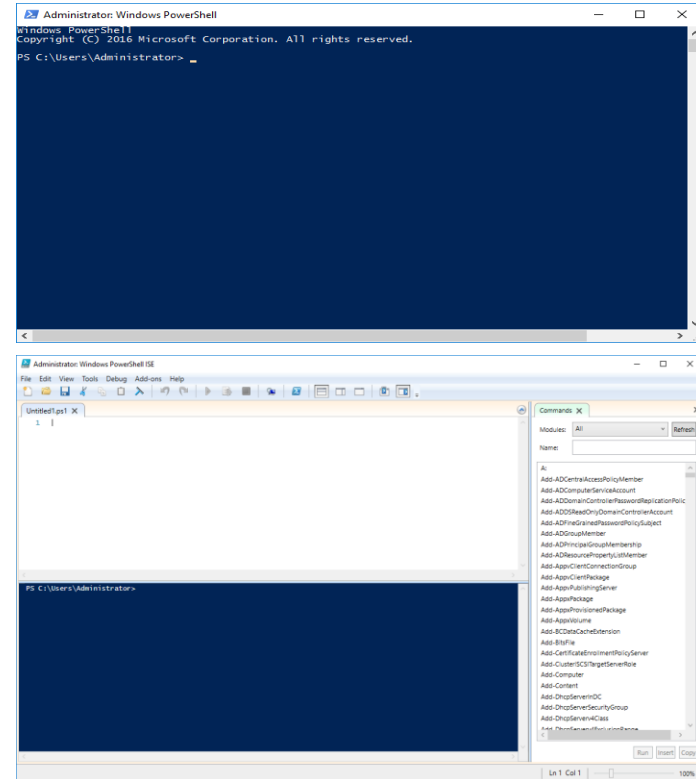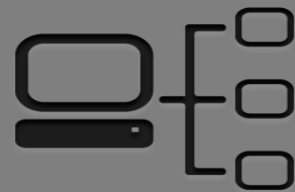# Windows PowerShell

- Windows PowerShell is a command-line shell created to simplify systems administration tasks.

- A shell is a user interface used to access an operating system's services.

- PowerShell is an object-oriented scripting language built on the .NET framework.

- PowerShell commands are called cmdlets.

- There are two forms of PowerShell:
  - PowerShell and PowerShell ISE (Integrated Scripting Environment)

Example PowerShell Script


```powershell
PS C:\>
>> $UserList = Import-Csv -Path 'C:\temp\user list.csv'
>>
>> foreach ($User in $UserList) {
>>
>>     $Attributes = @{
>>
>>         Enabled = $true
>>         ChangePasswordAtLogon = $true
>>         Path = "OU=Futurama Users,DC=pdqlabs,DC=org"
>>
>>         Name = "$($User.First) $($User.Last)"
>>         UserPrincipalName = "$($User.First).$($User.Last)@pdqlabs.org"
>>         SamAccountName = "$($User.First).$($User.Last)"
>>
>>         GivenName = $User.First
>>         Surname = $User.Last
>>
>>         Company = $User.Company
>>         Department = $User.Department
>>         Title = $User.Title
>>
>>         AccountPassword = "TotallyFakePassword123" | ConvertTo-SecureString -AsPlainText -Force
>>
>>     }
>>
>>     New-ADUser @Attributes
>>
>> }
PS C:\>
```