INTRODUCTION TO ACTIVE DIRECTORY
CHEAT SHEET

Basic Commands Needed

```
xfreerdp /v:<IP> /u:<User> /p:<Password>
ping <IP>
```

General Commands

Returns a list of loaded PowerShell Modules:
```
Get-Module
```

Lists commands for the module specified:
```
Get-Command -Module ActiveDirectory
```

Shows help syntax for the cmd-let specified:
```
Get-Help <cmd-let>
```

Imports the Active Directory Module:
```
Import-Module ActiveDirectory
```

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Active Directory PowerShell Commands
AD User Commands

Add a user to AD and set attributes:
```
New-ADUser -Name "first last"
-Accountpassword (Read-Host -AsSecureString
"Super$ecurePassword!") -Enabled $true
-OtherAttributes @{'title'="Analyst";
'mail'="f.last@domain.com"}
```

Removes a user from AD with the identity of 'name':
```
Remove-ADUser -Identity <name>
```

Unlocks a user account with the identity of 'name':
```
Unlock-ADAccount -Identity <name>
```

Set the password of an AD user to the password specified:
```
Set-ADAccountPassword -Identity <'name'>
-Reset -NewPassword (ConvertTo-SecureString
-AsPlainText "NewP@ssw0rdReset!" -Force)
```

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INTRODUCTION TO ACTIVE DIRECTORY

Force a user to change their password at next logon attempt:
```
Set-ADUser -Identity amasters
-ChangePasswordAtLogon $true
```

AD Group Commands

Create a new AD OU container named "name" in the path specified:
```
New-ADOrganizationalUnit -Name "name" -Path
"OU=folder, DC=domain, DC=local"
```

Create a new security group named "name" with the accompanying attributes:
```
New-ADGroup -Name "name" -SamAccountName
analysts -GroupCategory Security -GroupScope
Global -DisplayName "Security Analysts"
-Path "CN=Users,DC=domain,DC=local"
-Description "Members of this group are
Security Analysts under the IT OU"
```

Add an AD user to the group specified:
```
Add-ADGroupMember -Identity 'group name'
-Members 'ACepheus, OStarchaser, ACallisto'
```

GPO Commands

Copy a GPO for use as a new GPO with a target name of "name":

```
Copy-GPO -SourceName "GPO to copy"
-TargetName "Name"
```

Create a new GPO and link it to a specific OU or security group:

```
New-GPLink -Name "Security Analysts
Control" -Target "ou=Security Analysts,
ou=IT, OU=HQ-NYC, OU=Employees,
OU=Corp, dc=INLANEFREIGHT, dc=LOCAL"
-LinkEnabled Yes
```

Link an existing GPO for use to a specific OU or security group:

```
Set-GPLink -Name "Security Analysts
Control" -Target "ou=Security Analysts,
ou=IT, OU=HQ-NYC, OU=Employees,
OU=Corp, dc=INLANEFREIGHT, dc=LOCAL"
-LinkEnabled Yes
```

Computer Commands

Add a new computer to the domain using the credentials specified:

```
Add-Computer -DomainName
'INLANEFREIGHT.LOCAL' -Credential
'INLANEFREIGHT\HTB-student_adm'
-Restart
```

Remotely add a computer to a domain:

```
Add-Computer -ComputerName 'name'
-LocalCredential '.\localuser'
-DomainName 'INLANEFREIGHT.LOCAL'
-Credential 'INLANEFREIGHT\htb-student_adm'
-Restart
```

Check for a computer named "name" and view its properties:

```
Get-ADComputer -Identity "name"
-Properties * | select CN,Canonical-
Name,IPv4Address
```