

Active Directory PowerShell Quick Reference

Other Cmdlets

```
Add-ADComputerServiceAccount
Get-ADComputerServiceAccount
Remove-ADComputerServiceAccount
Remove-ADServiceAccount
Set-ADServiceAccount
```

```
Add-ADDomainControllerPasswordReplicationPolicy
Get-ADAccountResultantPasswordReplicationPolicy
Get-ADDomainControllerPasswordReplicationPolicy
Get-ADDomainControllerPasswordReplicationPolicyUsage
Remove-ADDomainControllerPasswordReplicationPolicy
```

```
Remove-ADFineGrainedPasswordPolicy
Remove-ADFineGrainedPasswordPolicySubject
Set-ADFineGrainedPasswordPolicy
```

```
Add-ADPrincipalGroupMembership
Get-ADPrincipalGroupMembership
Remove-ADPrincipalGroupMembership
```

```
Disable-ADOptionalFeature
Get-ADOptionalFeature
```

```
Get-ADObject
Move-ADObject
New-ADObject
Remove-ADObject
Rename-ADObject
Set-ADObject
```

```
Set-ADOrganizationalUnit
Remove-ADOrganizationalUnit
```

```
Get-ADUserResultantPasswordPolicy
Remove-ADUser
```

```
Get-ADAccountAuthorizationGroup
Get-ADDomainController
```

```
Move-ADDirectoryServer
```

```
Remove-ADGroupMember
```

```
Search-ADAccount
```

```
Set-ADAccountControl
Set-ADComputer
Set-ADDomain
Set-ADForest
```

Recycle Bin

To enable the 'AD Recycle Bin' feature:

```
Enable-ADOptionalFeature 'Recycle
Bin Feature' -Scope
ForestOrConfigurationSet -Target
'test.local'
```

To restore an AD Account from the Recycle Bin

```
Get-ADObject -Filter
'samaccountname -eq "JoeBloggs"'
-IncludeDeletedObjects | Restore-
ADObject
```

Service Accounts

To see AD Service Accounts:

```
Get-ADServiceAccount -Filter *
```

To create a new AD Service Account:

```
New-ADServiceAccount -Name
"Service1" -SamAccountName
"Service1" -DisplayName
"Service1" -AccountPassword
(Read-Host -AsSecureString
"AccountPassword") -Enabled $true
```

Install an existing AD service account on the local computer and make the required changes so that the password can be periodically reset by the computer:

```
Install-ADServiceAccount -
Identity 'Service1'
```

Uninstall an existing AD service account on the local computer:

```
Uninstall-ADServiceAccount -
Identity 'Service1'
```

To reset the AD Service Account password on the local computer:

```
Reset-ADServiceAccountPassword -
Identity 'Service1'
```

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Getting Started

To add the Active Directory module:

```
Import-Module activedirectory
```

Get a list of AD Commands:

```
Get-Command -Module
activedirectory
```

For help with a cmdlet, type:

```
Get-Help Get-ADUser -Full
```

Forests and Domains

To see Forest details:

```
Get-ADForest test.local
```

To see Domain details:

```
Get-ADDomain test.local
```

To raise the Forest functional level:

```
Set-ADForestMode -Identity
test.local -ForestMode
Windows2008R2Forest
```

To raise the Domain functional level:

```
Set-ADDomainMode -Identity
test.local -DomainMode
Windows2008R2Domain
```

Get the rootDSE from the default domain controller:

```
Get-ADRootDSE
```

Move FSMO roles:

```
Move-
ADDirectoryServerOperationMasterR
ole -Identity "TESTDC" -
OperationMasterRole
PDCEmulator, SchemaMaster
```

User Account Tasks

To see user account details:

```
Get-ADUser -Identity 'Joe Bloggs'
```

To search for a user:

```
Get-ADUser -Filter 'Name -like
"Joe Bloggs"'
```

Or search for users in a particular OU:

```
Get-ADUser -Filter * -SearchBase
"OU=Sales,OU=Users,DC=test,DC=loc
al"
```

To see additional properties, not just the default set:

```
Get-ADUser -Identity 'JoeBloggs' -
Properties Description,Office
```

To see all the user properties, not just default set:

```
Get-ADUser -Identity 'JoeBloggs'
-Properties *
```

To create a new user:

```
New-ADUser -Name "Joe Bloggs" -
SamAccountName "JoeBloggs" -
GivenName "Joe" -Surname "Bloggs"
-DisplayName "Joe Bloggs" -Path
'OU=Users,OU=Sales,DC=test,DC=loc
al' -OtherAttributes
@{'Title'="Sales Manager"} -
AccountPassword (Read-Host -
AsSecureString "AccountPassword")
-Enabled $true
```

To change the properties of a user:

```
Set-ADUser Joe Bloggs -City
London -Remove
@{otherMailbox="Joe.Bloggs"} -Add
@{url="test.local"} -Replace
@{title="manager"} -Clear
description
```

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Password Policies

To see the Default Domain Password Policy:

```
Get-ADDefaultDomainPasswordPolicy -Identity test.local
```

To change the properties of the Default Domain Password Policy:

```
Set-ADDefaultDomainPasswordPolicy -Identity test.local -LockoutDuration 00:40:00 -LockoutObservationWindow 00:20:00 -MaxPasswordAge 10.00:00:00 -MinPasswordLength 8
```

To create a new Fine-Grained Password Policy:

```
New-ADFineGrainedPasswordPolicy -Name "Standard Users PSO" -Precedence 500 -ComplexityEnabled $true -Description "Standard Users Password Policy" -DisplayName "Standard Users PSO" -LockoutDuration "0.12:00:00" -LockoutObservationWindow "0.00:15:00" -LockoutThreshold 10
```

To see all Fine-Grained Password Policies:

```
Get-ADFineGrainedPasswordPolicy -Filter {name -like "*"}
```

To apply a Fine-Grained Password Policy to a group of users:

```
Add-ADFineGrainedPasswordPolicySubject 'Standard Users PSO' -Subjects 'Standard Users'
```

To see which users have been applied to a Fine-Grained Password Policy:

```
Get-ADFineGrainedPasswordPolicySubject -Identity 'Standard Users PSO'
```

Group Tasks

To see group details:

```
Get-ADGroup -Identity 'Sales Users'
```

To create a new group:

```
New-ADGroup -Name "Sales Users" -SamAccountName SalesUsers -GroupCategory Security -GroupScope Global -DisplayName 'Sales Users' -Path "OU=Groups,OU=Resources,DC=test,DC=local" -Description "All Sales Users"
```

To change the properties of a group:

```
Set-ADGroup -Identity 'SalesUsers' -GroupCategory Distribution -GroupScope Universal -ManagedBy 'JoeBloggs' -Clear Description
```

To remove a group:

```
Remove-ADGroup -Identity 'SalesUsers' -Confirm:$false
```

To see group members:

```
Get-ADGroupMember -Identity 'SalesUsers' -Recursive
```

To add group members:

```
Add-ADGroupMember -Identity 'SalesUsers' -Members JoeBloggs, SarahJane
```

To remove group members:

```
Remove-ADGroupMember -Identity 'SalesUsers' -Members JoeBloggs, SarahJane
```

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User Account Security

To disable a user account:

```
Disable-ADAccount -Identity JoeBloggs
```

To enable a user account:

```
Enable-ADAccount -Identity JoeBloggs
```

To set the expiration date for a user account:

```
Set-ADAccountExpiration -Identity JoeBloggs -DateTime "10/18/2008"
```

To clear the expiration date for a user account:

```
Clear-ADAccountExpiration -Identity JoeBloggs
```

To change the password for a user account:

```
Set-ADAccountPassword -Identity JoeBloggs -Reset -NewPassword (ConvertTo-SecureString -AsPlainText "p@ssw0rd" -Force)
```

To unlock a user account:

```
Unlock-ADAccount -Identity JoeBloggs
```

Computer Account Tasks

To see computer account details:

```
Get-ADComputer -Filter 'Name - like "Server01"'
```

To create a new computer account:

```
New-ADComputer -Name "Server01" -SamAccountName "Server01" -Path "OU=Computers,OU=Resources,DC=test,DC=local" -Enabled $true -Location "London"
```

To remove a computer account:

```
Remove-ADComputer -Identity "Server01" -Confirm:$false
```

Organisational Unit Tasks

To see OU details:

```
Get-ADOrganizationalUnit -Identity 'OU=Users,OU=Sales,DC=test,DC=local'
```

To create a new OU:

```
New-ADOrganizationalUnit -Name Users -Path 'OU=Marketing,DC=test,DC=local'
```

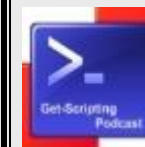
How to Get More Information

Check out the AD PowerShell Blog

<http://blogs.msdn.com/adpowershell/default.aspx>

Make sure you visit the following sites for PowerShell Podcasts

<http://get-scripting.blogspot.com/>
<http://powerscripting.net/>



For the latest version of this doc check

<http://jonathanmedd.net>