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PowerShell

AD

Active Directory

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PowerShell

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AD

PowerShell

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```
#      AD      PowerShell      7      ActiveDirectory
Import-Module

#      DC
Get-ADUser -Identity zhangsan -Server DC01.contoso.com
```

1. 脚本

```
# 删除所有过期账户
Get-ADUser -Identity zhangsan -Properties *

# 删除所有过期账户
Get-ADUser -Filter {Enabled -eq $false} -Properties whenChanged
Get-ADUser -Filter {AccountExpirationDate -lt (Get-Date)}

# 删除所有过期90天的账户
$cutoff = (Get-Date).AddDays(-90)
Get-ADUser -Filter {lastLogonTimestamp -lt $cutoff} -Properties lastLogonTimestamp |
@{n='LastLogon';e={ [datetime]::FromFileTime($_.lastLogonTimestamp)}}

# 创建新用户
New-ADUser -Name "张三" -SamAccountName "zhangsan" -UserPrincipalName "zhangsan@contoso.com" -Path "OU=IT,DC=contoso,DC=com" -AccountPassword (ConvertTo-SecureString "P@ssw0rd!" -AsPlainText -Force) -Enabled $true

# 启用/禁用/解锁账户
Enable-ADAccount zhangsan
Disable-ADAccount zhangsan
Unlock-ADAccount zhangsan

# 重置密码
Set-ADAccountPassword -Identity zhangsan -NewPassword (ConvertTo-SecureString "NewP@ss!" -AsPlainText -Force) -Reset
Set-ADUser -Identity zhangsan -ChangePasswordAtLogon $true

# 移动用户
Move-ADObject -Identity "CN=zhangsan,OU=IT,DC=contoso,DC=com" -TargetPath "OU=IT,DC=contoso,DC=com"
Remove-ADUser zhangsan -Confirm
```

2. 删除

```
Get-ADGroup -Filter * -Properties Description
Get-ADGroupMember "Domain Admins" -Recursive

# 删除 zhangsan 的组
Add-ADGroupMember -Identity "Domain Admins" -Members zhangsan
Remove-ADGroupMember -Identity "Domain Admins" -Members zhangsan -Confirm
# 删除 zhangsan 的组
Get-ADPrincipalGroupMembership zhangsan
```

3. 清理

```
Get-ADComputer -Filter {Enabled -eq $false}
# 清理 30 天未登录的计算机
Get-ADComputer -Identity WS001 -Properties LastLogonDate, OperatingSystem
# 设置 30 天前的日期
$cutoff = (Get-Date).AddDays(-30)
Get-ADComputer -Filter {LastLogonDate -lt $cutoff} | Remove-ADComputer -Confirm
```

4. 配置

```
# 配置默认域密码策略
Get-ADDefaultDomainPasswordPolicy
Set-ADDefaultDomainPasswordPolicy -MaxPasswordAge 90 -MinPasswordLength 12
# 配置事件日志
$eventLog = "Security"
$eventID = 4740
$user = "zhangsan"
Get-WinEvent -LogName Security -FilterXPath "[*][System[EventID=4740]]" -MaxEvents 20 |
Where-Object { $_.Properties[0].Value -eq $user } |
Select-Object TimeCreated, @{n='Source';e={$_.Properties[1].Value}} | Format-Table -
Auto
```

5. 批量

```
#
repadmin /replsummary
#
repadmin /showrepl DC01
repadmin /queue DC01
#
repadmin /syncall /AdeP
#
dcdiag /v
dcdiag /test:replications
dcdiag /test:dns
#
PowerShell
Get-ADReplicationPartnerMetadata -Target DC01 -Partition '*' -PartnerType Both |
Select-Object Server, Partner, LastReplicationSuccess, ConsecutiveFailureCount
```

6. FSMO

```
Get-ADDomainController -Filter * | Select-Object Name, Domain, OperationMasterRoles
Move-ADDirectoryServerOperationMasterRole -Identity DC02 -OperationMasterRole
SchemaMaster
#
netdom query fsmo
```

7. DNS

```
Clear-DnsServerCache -ComputerName DC01
Get-DnsServerResourceRecord -ZoneName "contoso.com" -Name "web" -RRType A
Add-DnsServerResourceRecordA -ZoneName "contoso.com" -Name "web" -IPv4Address 10.0.0.10
Remove-DnsServerResourceRecord -ZoneName "contoso.com" -RRType A -Name "web" -Force
Get-DnsServerZone -ComputerName DC01
#
Get-DnsServerDiagnostics | Select-Object EnableLoggingForQuery,
EnableLoggingForZoneTransfer
#
DNS
```

```
dnscmd DC01 /enumrecords contoso.com /continue
```

8. GPO

```
Get-GPO -All | Select-Object DisplayName, Owner, ModificationTime
Get-GPOReport -Name "GPO" -ReportType HTML -Path "C:\temp\gpo.html"

#
Backup-GPO -Name "GPO" -Path "C:\backup\gpo"

#
New-GPO -Name "GPO" | New-GPLink -Target "OU=,DC=contoso,DC=com"

#
#
gpupdate /force
#
gpresult /r /scope computer
```

9. Kerberos

```
w32tm /query /status

#
w32tm /query /source

#
w32tm /config /manualpeerlist:"ntp.aliyun.com,0x1" /syncfromflags:manual /update

#
w32tm /resync

#
Restart-Service w32time

#
```

10.

```
Get-ADReplicationSite -Filter * | Select-Object Name, Options, SiteObjectBL
Get-ADReplicationSubnet -Filter *
New-ADReplicationSite -Name "Shanghai-Site"
New-ADReplicationSubnet -Name "10.10.0.0/24" -Site "Shanghai-Site"
```

11. 检查 ID

```
# 4740 4720 4732 4724 4768 Kerberos
Get-WinEvent -LogName Security -MaxEvents 1000 -FilterXPath "[System[EventID=4720]]"
|
Select-Object TimeCreated, @{n='User';e={$_.Properties[0].Value}}
#
DNS/
Get-EventLog -LogName System -EntryType Error -Newest 50 | Where-Object {$_.Source -
match 'DNS|NETLOGON|NTDS'}
```

12. 检查

```
$report = @()
# 1.
$report += repadmin /replsummary | Out-String
# 2.
$report += "`n=== / ==="
$report += Get-ADUser -Filter {Enabled -eq $true} -Properties msDS-
UserPasswordExpiryTimeComputed
Where-Object { $_.msDS-UserPasswordExpiryTimeComputed -ne $nu
[datetime]::FromFileTime($_.msDS-UserPasswordExpiryTimeComputed) -lt (Get-
Date).AddDays(7) }
Select-Object SamAccountName, @{n='Expiry';e={[datetime]::FromFileTime
UserPasswordExpiryTimeComputed}} | Out-String
# 3.
$report += "`n=== "
$report += w32tm /query /status | Out-String
$report | Out-File "C:\temp\dc_audit_$(Get-Date -Format yyyyMMdd).txt"
```

- ? Import-Module ActiveDirectory?PowerShell 5.1?Windows ??? 7 ????????????? 5.1?
- ????????? 4740 ? Caller Computer Name?????
- ????? 3 ??? ???? ?repadmin?? ???? ?w32tm?? ????? ?4740 ???

PowerShell Windows

PowerShell

☐ Active Directory☐☐☐☐

Windows Server

□ Exchange□□□□□

☐ DNS ☐ DHCP ☐ ☐ ☐

☐ AD ☐ ERP ☐ OA

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Revision #3

Created 2026-08-29 05:31:18 UTC by Admin

Updated 2026-08-29 05:37:06 UTC by Admin