PowerShell Commands for System Administration

User Management

Create a new user:

New-LocalUser -Name "jdoe" -Password (ConvertTo-SecureString "P@ssw0rd!" -AsPlainText -Force) -FullName "John Doe" -Description "HR User"

Add user to group:

Add-LocalGroupMember -Group "Administrators" -Member "jdoe"

Disable a user account:

Disable-LocalUser -Name "jdoe"

System Info & Health Check

Get system info:

Get-ComputerInfo

Check disk space:

Get-PSDrive -PSProvider 'FileSystem'

Top CPU consuming processes:

Get-Process | Sort-Object CPU -Descending | Select-Object -First 10

File & Folder Operations

Copy files:

Copy-Item -Path "C:\Source\File.txt" -Destination "D:\Backup"

Search files recursively:

Get-ChildItem -Path "C:\Logs" -Recurse -Filter "*.log"

Remove old files (30+ days):

Get-ChildItem "C:\Temp" -Recurse | Where-Object { $_.LastWriteTime -lt (Get-Date).AddDays(-30) } | Remove-Item

Windows Updates & Services

Get installed updates:

Get-HotFix

Start/Stop services:

Start-Service -Name "wuauserv"

```
Stop-Service -Name "Spooler"
```

Check running services:

```
Get-Service | Where-Object { $_.Status -eq 'Running' }
```

Network Troubleshooting

Get IP config:

```
Get-NetIPAddress
```

Ping test:

```
Test-Connection google.com -Count 4
```

Open TCP connections:

```
Get-NetTCPConnection | Where-Object { $_.State -eq "Established" }
```

Scheduled Tasks & Automation

List scheduled tasks:

```
Get-ScheduledTask
```

Create scheduled task:

```
$Action = New-ScheduledTaskAction -Execute "PowerShell.exe" -Argument "-File C:\Scripts\Backup.ps1"
```

```
$Trigger = New-ScheduledTaskTrigger -Daily -At 3am
```

```
Register-ScheduledTask -Action $Action -Trigger $Trigger -TaskName "DailyBackup"
```

Remote Management

Enable PowerShell Remoting:

```
Enable-PSRemoting -Force
```

Run command on remote:

```
Invoke-Command -ComputerName "Server01" -ScriptBlock { Get-Service }
```

Start remote session:

```
Enter-PSSession -ComputerName "Server01"
```