

Module 7

PowerShell Remoting

Activating and Using
Configuring Connections
Constraints Endpoints
Using SSL
Remoting in Workgroups



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Enabling/Disabling PSRemoting



How to enable and disable PSRemoting

- Enabling PSRemoting
 - WinRM quick configuration
 - Setting permissions for all endpoints
- Test PSRemoting
 - enter a remote session
- Disabling PSRemoting
 - WinRM still runs
 - permissions are restored (group Network set All Operations to deny)

Enter-PSSession -Computername Localhost

Disable-PSRemoting
Disable-PSRemoting -Confirm:\$False

Enable-PSRemoting -Confirm: \$False

Enable-PSRemoting



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Using PSRemoting



How to execute cmdlets and scripts remotely.

- Parameter 'Computer' of cmdlet
 - does not work always
 - Hint: DCOM instead of WinRM
- Invoke-Command
 - -Computername or -Session
 - ScriptBlock
 - -FilePath
 - -AsJob
- Enter-PSSession
 - Computername or -Session
 - -Credential



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Using session



How to use sessions in PSRemoting.

"A session is an environment in which Windows PowerShell runs." (get-help about_modules)

- Create a session
- **\$Session = New-PSSession** -Computername Srv3
- Use a session
- Invoke-Command -Session \$Session -ScriptBlock { ... }
- Disconnect a session
- Disconnect-PSSession -Session \$Session
 Get-PSSession -Computername Srv2
- and reconnect

 $\textbf{Reconnect-PSSession} \ \, \neg \texttt{Session} \ \, \$\texttt{Session}$

End a session? ____

 $\textbf{Remove-PSSession} \ \, \text{-Session} \ \, \text{\$Session}$

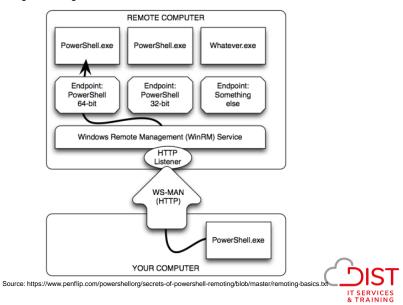


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Architecture of PSRemoting



How PSRemoting is working



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Do You Have Any Questions?



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