

QUESTION EASY (10 Questions)

Q1. What is Windows PowerShell primarily used for?

- A. GUI application development
- B. System automation and administration
- C. Database management
- D. Network packet capture

Q2. What is a PowerShell cmdlet?

- A. A compiled application
- B. A lightweight command for specific tasks
- C. A GUI tool
- D. A registry key

Q3. Which symbol is used for PowerShell pipelines?

- A. &
- B. >
- C. |
- D. ::

Q4. Which command lists running processes?

- A. Get-Service
- B. Get-EventLog
- C. Get-Process
- D. Get-Job

Q5. Which file extension is used for PowerShell scripts?

- A. .ps
- B. .cmd
- C. .bat
- D. .ps1

Q6. Which cmdlet displays available PowerShell commands?

- A. Show-Command
- B. Get-Help
- C. Get-Command
- D. Help

Q7. Which PowerShell version introduced cross-platform support?

- A. PowerShell 2.0
- B. PowerShell 3.0
- C. PowerShell 5.1
- D. PowerShell 7

Q8. Which execution policy allows running local scripts only?

- A. Unrestricted

- B. Restricted
- C. RemoteSigned
- D. AllSigned

Q9. Which cmdlet stops a running service?

- A. Stop-Process
- B. Stop-Service
- C. Remove-Service
- D. Disable-Service

Q10. Which object-oriented concept does PowerShell pipeline use?

- A. Text streams
 - B. Binary streams
 - C. Objects
 - D. Raw bytes
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MEDIUM (15 Questions)

Q11. What is the purpose of `Get-Help` in PowerShell?

- A. Execute scripts
- B. View cmdlet documentation
- C. Debug code
- D. Install modules

Q12. Which PowerShell feature allows executing commands on remote systems?

- A. Jobs
- B. Modules
- C. PowerShell Remoting
- D. Scheduled Tasks

Q13. Which protocol is used by PowerShell Remoting by default?

- A. SSH
- B. FTP
- C. WinRM
- D. SMB

Q14. Which cmdlet creates a background job?

- A. Start-Task
- B. New-Job
- C. Start-Job
- D. Invoke-Job

Q15. What is the advantage of background jobs?

- A. Faster execution

- B. Non-blocking execution
- C. GUI output
- D. Encrypted scripts

Q16. Which statement handles errors in PowerShell scripts?

- A. try-catch
- B. if-else
- C. switch
- D. for

Q17. Which variable stores the last error?

- A. \$Error
- B. \$LastError
- C. \$_
- D. \$Exception

Q18. Which cmdlet installs PowerShell modules from PSGallery?

- A. Import-Module
- B. Install-Module
- C. Add-Module
- D. Register-Module

Q19. Which PowerShell scope limits variables to a function?

- A. Global
- B. Script
- C. Local
- D. Private

Q20. Which cmdlet runs commands on multiple remote computers?

- A. Enter-PSSession
- B. Invoke-Command
- C. New-PSSession
- D. Connect-Remote

Q21. Which feature allows code reuse in PowerShell?

- A. Aliases
- B. Functions
- C. Jobs
- D. Variables

Q22. Which cmdlet retrieves Windows event logs?

- A. Get-EventLog
- B. Get-WinEvent
- C. Show-Event
- D. Read-Log

Q23. Which loop executes until a condition is false?

- A. for
- B. foreach
- C. do-while
- D. do-until

Q24. Which PowerShell feature enforces script security?

- A. Execution policy
- B. Cmdlet binding
- C. Aliases
- D. Variables

Q25. Which output format is best for automation scripts?

- A. Format-Table
 - B. Format-List
 - C. Objects (default output)
 - D. Write-Host
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HARD (15 Questions)

Q26. Why is PowerShell preferred over batch scripting in enterprises?

- A. Smaller file size
- B. Object-based pipeline
- C. Faster boot time
- D. GUI integration

Q27. Which error type terminates script execution unless handled?

- A. Non-terminating error
- B. Warning
- C. Terminating error
- D. Verbose message

Q28. Which remoting configuration allows secure cross-platform access?

- A. WinRM only
- B. NTLM
- C. Kerberos
- D. SSH-based remoting

Q29. Why should `Write-Host` be avoided in production scripts?

- A. Slower execution
- B. Breaks object pipeline
- C. Increases memory usage
- D. Requires admin rights

Q30. Which cmdlet best manages large-scale Windows environments?

- A. Get-Service
- B. Invoke-Command
- C. Write-Output
- D. Read-Host

Q31. Which PowerShell practice improves script maintainability?

- A. Hardcoded values
- B. Modular functions
- C. Inline commands only
- D. Disabled error handling

Q32. Which security risk arises from Unrestricted execution policy?

- A. Script signing failure
- B. Malicious script execution
- C. Reduced performance
- D. Limited cmdlets

Q33. Which PowerShell feature supports parallel execution?

- A. Pipelines
- B. Background jobs
- C. Aliases
- D. Comments

Q34. Which cmdlet captures detailed error information?

- A. Get-Error
- B. Write-Error
- C. Throw
- D. Debug-Error

Q35. Why should scripts be digitally signed in enterprises?

- A. Faster execution
- B. Prevent tampering and ensure trust
- C. Smaller scripts
- D. Easier editing

Q36. Which debugging cmdlet sets breakpoints?

- A. Debug-Process
- B. Set-PSBreakpoint
- C. Trace-Command
- D. Get-Debug

Q37. Which PowerShell feature allows Desired State Configuration?

- A. PowerShell ISE
- B. DSC

- C. Task Scheduler
- D. GPO

Q38. Which scenario best fits PowerShell automation?

- A. One-time GUI task
- B. Repetitive administrative tasks
- C. Gaming
- D. Graphic design

Q39. Why is logging important in automation scripts?

- A. Increase speed
- B. Reduce errors
- C. Troubleshooting and auditing
- D. Save memory

Q40. Which enterprise best practice ensures secure automation?

- A. Store credentials in plain text
- B. Use secure credential vaults
- C. Disable logging
- D. Run scripts as Domain Admin