

58 PowerShell Interview Questions to Assess Applicants

Questions

1. What is PowerShell and how does it differ from traditional command-line interfaces?
2. Can you explain the concept of 'cmdlets' in PowerShell?
3. How would you go about finding help or documentation for a PowerShell command you're unfamiliar with?
4. What's the difference between a PowerShell function and a script?
5. How would you approach automating a repetitive task using PowerShell?
6. Can you explain what a PowerShell pipeline is and give an example of how you might use it?
7. How would you securely store and use credentials in a PowerShell script?
8. What strategies would you use to troubleshoot a PowerShell script that isn't working as expected?
9. How would you use PowerShell to list all running processes on a Windows machine?
10. Can you explain what a PowerShell module is and how to import one?
11. How would you create a simple PowerShell script to rename multiple files in a directory?
12. What's the purpose of the 'Get-Service' cmdlet and how might you use it?
13. How can you use PowerShell to check the available disk space on a system?
14. Can you describe how to use PowerShell to create a new user account on a Windows system?
15. What's the difference between single quotes and double quotes in PowerShell strings?
16. How would you use PowerShell to find all text files in a directory and its subdirectories?
17. Can you explain what PowerShell variables are and how to declare them?
18. How might you use PowerShell to schedule a task to run daily at a specific time?
19. What's the purpose of the 'Select-Object' cmdlet and how might you use it?
20. How can you use PowerShell to check if a specific Windows service is running?
21. Can you explain what PowerShell aliases are and give an example?
22. How would you use PowerShell to export data to a CSV file?
23. What's the difference between 'Write-Host' and 'Write-Output' in PowerShell?
24. How can you use PowerShell to find and stop a specific process?
25. Can you explain what a PowerShell array is and how to create one?
26. How would you use PowerShell to check the current IP configuration of a machine?
27. What's the purpose of the 'ForEach-Object' cmdlet and how might you use it?
28. How can you use PowerShell to test if a file or directory exists?
29. How would you use PowerShell to monitor and report on system performance?
30. Can you explain the concept of PowerShell Desired State Configuration (DSC) and its benefits?
31. How would you approach error handling in a complex PowerShell script?
32. How would you use PowerShell to manage and automate Active Directory tasks?
33. Can you explain the concept of PowerShell remoting and its security implications?
34. How would you use PowerShell to interact with REST APIs?
35. How would you approach version control for PowerShell scripts in a team environment?
36. Can you explain the concept of PowerShell profiles and how you might use them?
37. How would you use PowerShell to manage and automate tasks in a cloud environment like Azure?
38. How would you approach performance optimization in a large PowerShell script?
39. How would you use PowerShell to parse a log file and extract specific information?
40. Can you explain how to use PowerShell to create and manage scheduled tasks on remote computers?
41. How would you approach writing a PowerShell script that needs to handle large amounts of data efficiently?
42. Can you describe a situation where you would use PowerShell's try-catch-finally block for error handling?
43. How would you use PowerShell to interact with and manage SQL Server databases?
44. Can you explain how to use PowerShell to create and manage virtual machines in a Hyper-V environment?
45. How would you use PowerShell to implement a script that requires user input with validation?
46. Can you describe how to use PowerShell to manage and automate tasks in an Active Directory environment?
47. How would you approach writing a PowerShell script that needs to run with elevated privileges?
48. Can you explain how to use PowerShell to create and manage network shares across multiple servers?
49. How would you use PowerShell to implement logging and debugging in a complex script?
50. Can you describe how to use PowerShell to automate the backup and restore process for a critical application?
51. How would you use PowerShell to automate a repetitive administrative task?
52. Can you describe a scenario where you used PowerShell to automate a deployment process?
53. How would you use PowerShell to automate the generation of reports?
54. How do you ensure that your PowerShell scripts are maintainable and reusable?
55. How would you handle error logging and notification in an automated PowerShell script?