

DevOps Vault Mentorship Program
Intermediate Shell Scripting Interview Questions

Theoretical Questions (20%)

1. What is Shell?
2. How to check how many shells that Linux/Unix server will support?
3. What are the different shell types?
4. How many types of comments does shell script support?
5. What is command line arguments?
6. What is the difference between \$* and \$@?
7. What is the difference between > and >> and < and what is the standard output and standard error codes?
8. How many types of variables are there in Shell scripting?
9. What are some System defined variables?
10. What is String?

Hands-on Questions (80%)

11. Write down the syntax for if condition.
12. Write down the syntax for for loop.
13. Write down the syntax for a function and write one function and call that function.

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14. How to display one variable (take variable name as technology) value?
15. Write a shell script to accept the name and age from the user and display that back to the user.
16. Write a shell script to accept a file name from the user and make a copy of that file.
17. Write a shell script to accept a file name from the user and display the contents of the file. If the file doesn't exist, curb the error and display a user-friendly error to the user.
18. Write a shell script to accept a file name from the user and check whether it is an ordinary file or a directory. In case of a file, show the contents of the file, and if it is a directory, show the number of files in that directory.
19. Write a shell script to accept a file name from the user. Check whether the file has all the permissions; if not, assign the respective permissions to that file.
20. Write a shell script to accept a file name from the user and sort the file. If the file doesn't exist, curb the error message and show a user-friendly message.
21. How can you run a shell script in debug mode?
22. How to run a shell script in the background?
23. How to send error logs and stdout logs to different files?
24. How to run a script at boot level?
25. What are the predefined variables in Shell script?

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26. How to declare a variable in a shell script?
27. What is \$?, \$#, \$*?
28. What is the command for the status of the last command execution in Linux and what is the output of that command?
29. What is the purpose of the export command?
30. How to read a command line input in shell script?
31. How to find the previous command execution status?
32. How to perform arithmetic operations in Shell script?
33. Write a script (in any scripting language) to find the number of occurrences of the word 'Failure' in a file sample.txt and replace all occurrences of 'Failure' with 'Success'.
34. Write a script (in any scripting language) to input 'n' number of usernames as parameters and to find if that user is present or not. Output should be 'Username Present' or 'Username - Not Present'.
35. Write a single Bash or Python or Perl script to check file system usage on a Linux host. Send an email to abc@xyz.com if one or more file systems' usage is above the threshold (Ex. 85%).
36. Write a bash or Python or PERL script to list the unique shells in /etc/passwd file and print a string with the number of users using that shell.
37. There are multiple subdirectories under a directory, e.g., '/var/tmp/app-code' on a Linux host. Those subdirectories contain one or more XML files. Some of those XML files have an IP address

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(e.g., 85.) hardcoded. Write a one-liner bash command to replace all occurrences of this IP address with a variable, e.g., SIP_Address in all the files where it exists.

38. Write a single Bash or Python or Perl script to check file system usage on a Linux host. Send an email to abc@xyz.com if one or more file systems' usage is above the threshold (Ex. 85%).

39. How to write a script when the first command is executed successfully then execute another command?

40. What is the syntax for for loop and while loop?

41. How to print the shell name?

42. How to assign all the arguments to a single variable?

43. How to print the current process ID of the current shell?

44. How to know the file that is entering randomly to my script?

45. How to divide two variables in shell script?

46. What is trap in shell script?

47. What is shift in shell script?

48. How to run our script in the background?

49. How to know the running background process ID?

50. How to print only directories?