



DevOps Interview Questions



Linux::

- Command to get list of all files and folders
 - ls command options
 - What columns you see when you run ls -l
 - Why some entries in ls -l start with l
 - Commands to create files/directories in Linux
 - Commands to remove files, directories, and directory content
 - Command to create a directory within another directory
 - What are all the file modes
 - grep, sed, awk, cut – usage and examples
 - top command usage
 - kill command usage
 - Command to remove 30+ days old log files
 - Command to check file existence
 - Command to give read & write permission to owner, and read-only to group & others
 - Command to change owner
 - Commands to check CPU, memory, disk space
 - Command to start a service
 - Difference between apt, yum, and dnf
 - Command to check open port
 - Command to show all running processes
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Git & GitHub::

- Git vs GitHub
 - git pull vs git fetch
 - git clone vs git fork
 - git reflogs
 - git stash
 - git merge vs git rebase
 - git revert vs git reset
 - git push vs git cherry-pick
 - Git command to clone a specific branch
 - Branching strategy in your project
 - How you secure credentials
 - How you resolve merge conflicts
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Shell/Python Scripts::

- Is it mandatory to add shebang (#!/bin/bash) at the beginning of scripts?
 - Script to get 30+ day old directories and remove them if 90%+ disk usage
 - Script to check if file exists – if not, create it
 - Script to check if a number is even or odd
 - Script to find the maximum of 3 numbers
 - Script to automate start, restart, and shutdown of Azure VMs
 - Script to find and remove files older than 30 days
 - Script to reverse a string
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Ansible::

- Why Ansible?
 - What are Ansible roles?
 - What are Ansible handlers?
 - What is inventory file in Ansible?
 - Types of inventories
 - How to use conditions in Ansible playbooks
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Docker::

- What is Docker?
 - Docker vs Kubernetes
 - Command to build a Dockerfile
 - Difference between image and container
 - How to write a Dockerfile
 - CMD vs ENTRYPOINT
 - COPY vs ADD
 - Command to get list of all containers
 - Command to view docker logs
 - What is Docker Compose?
 - What are multi-stage builds in Docker?
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Terraform::

- What is Terraform?
- What are providers in Terraform?
- How to create infra in multiple regions with multiple providers?
- How to use different .tfvar files for different environments?
- What happens if infra is removed manually and you run terraform apply?
- What happens if someone deletes the statefile?

- Write a Terraform file to create a Virtual Machine
 - What are Terraform modules?
 - Write a simple Terraform module
 - Difference between variables.tf and var.tfvars
 - count vs for_each
 - Dynamic block usage
 - Workspaces in Terraform
 - Locals in Terraform
 - Terraform lifecycle explained
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Jenkins::

- Write a sample cicd.yaml file
 - What are the different types of pipelines?
 - How to integrate SonarQube with Jenkins
 - How Jenkins automatically triggers pipeline on GitHub push
 - Why use SonarQube?
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Azure & Azure DevOps::

- What is a Service Connection and how to implement it?
- How to store secrets/confidential info in Azure securely?
- Different types of data storage options in Azure
- Logic Apps, Gateways, Load Balancing, Event Hub, etc.
- Why Azure DevOps?
- How to connect Azure DevOps with Azure
- What is Environment in Azure DevOps?
- What is Scope in Azure DevOps?
- Write a YAML pipeline for deployment
- Creating secrets in Azure Key Vault vs Azure DevOps portal – differences and when to use which
- VM failure – what could be the reasons?
- What is a VM Scale Set?
- If a CI/CD YAML pipeline has 5 stages and fails at a specific one in production – what's your immediate action plan?