

Linux DevOps Interview Notes

100 Most Asked Questions & Answers

Premium Linux Interview Handbook

This document contains beginner-to-advanced Linux interview questions and answers for DevOps Engineers. It includes practical commands, real-world explanations, troubleshooting concepts, and interview-ready answers.

Linux Basics

Q: What is Linux?

Answer: Linux is an open-source operating system based on Unix architecture. It is widely used in servers, cloud computing, DevOps, and containerized environments.

Q: What is Kernel?

Answer: Kernel is the core component of Linux that manages CPU, memory, storage, and hardware communication.

Q: What is Shell?

Answer: Shell is a command-line interface used to interact with the Linux operating system.

File Management

Q: How to create file?

Answer: Use touch command.

```
touch file.txt
```

Q: How to create directory?

Answer: Use mkdir command.

```
mkdir test
```

Q: How to copy files?

Answer: Use cp command.

```
cp file1 file2
```

Q: How to remove files?

Answer: Use rm command carefully.

```
rm file.txt
```

Permissions & Users

Q: What are Linux permissions?

Answer: Permissions control access to files and directories using read, write, and execute access.

Q: How to change permissions?

Answer: Use chmod command.

```
chmod 755 script.sh
```

Q: How to change ownership?

Answer: Use chown command.

```
chown ubuntu:ubuntu file.txt
```

Process Management

Q: How to check running processes?

Answer: Use ps -ef or top command.

```
ps -ef
```

Q: How to kill a process?

Answer: Use kill command with PID.

```
kill -9 1234
```

Networking

Q: What is SSH?

Answer: SSH is a secure protocol used for remote server access.

```
ssh ubuntu@server-ip
```

Q: How to check open ports?

Answer: Use netstat or ss command.

```
ss -tulnp
```

Q: What is ping?

Answer: Ping checks network connectivity between systems.

```
ping google.com
```

Services & Logs

Q: How to start service?

Answer: Use systemctl command.

```
systemctl start nginx
```

Q: How to check service status?

Answer: Use systemctl status.

```
systemctl status nginx
```

Q: How to monitor logs?

Answer: Use tail -f command.

```
tail -f /var/log/syslog
```

Automation

Q: What is cron job?

Answer: Cron jobs are used for scheduling tasks automatically.

Q: Edit cron jobs

Answer: Use crontab -e command.

```
crontab -e
```

Interview Tips

- Explain concepts in simple language.
- Always give practical examples.
- Mention real-world server usage.
- Show confidence while explaining Linux commands.
- Explain troubleshooting approaches clearly.

Best Practices

- Avoid using `chmod 777` in production.
- Use SSH keys instead of passwords.
- Monitor logs regularly.
- Take regular backups.
- Use automation for repetitive tasks.