

Linux Server Administration

Course Duration: 15 Days

1. Controlling Services and Daemons

- Controlling Services with systemctl
- Using systemctl to Manage Services
- Controlling the Boot Process
- Selecting a Boot Target
- Controlling Services and Daemons

2. Managing IPv6 Networking

- Review of IPv4 Networking Configuration
- Configuring IPv4 Networking
- IPv6 Networking Concepts
- Interpreting IPv6 Addresses
- IPv6 Networking Configuration
- Configuring IPv6 Networking
- Managing IPv6 Networking

3. Configuring Link Aggregation and Bridging

- Configuring Network Teaming
- Configuring Software Bridges
- Managing Network Teaming
- Managing Network Teaming
- Configuring Network Teaming
- Configuring Software Bridges
- Configuring Link Aggregation and Bridging

4. Network Port Security

- Managing Firewall
- Configuring a Firewall
- Managing Rich Rules
- Writing Custom Rules
- Masquerading and Port Forwarding
- Forwarding a Port
- Managing SELinux Port Labeling
- Network Port Security

5. Managing DNS for Servers

- DNS Concepts
- DNS Resource Record
- Configuring a caching Nameserver
- configuring unbound as a Caching Nameserver
- DNS Troubleshooting
- Troubleshooting DNS

6. Configuring Email Transmission

- Configuring send-only Email Service
- Configuring Email Transmission

7. Providing Remote Block Storage

- iSCSI Concepts
- Providing iSCSI Targets
- Accessing iSCSI Storage
- Providing Block-based Storage

8. Providing File-based Storage

- Exporting NFS File Systems
- Protecting NFS Exports
- Providing SMB File Shares
- Performing a Multiuser SMB Mount
- Providing File-based storage

9. Configuring MariaDB Databases

- Installing MariaDB
- Working with MariaDB Databases
- Maria DB Commands
- Managing Database Users and Access Rights
- Managing Users
- Creating and Restoring Maria DB Backups.
- Restoring a Maria DB Database from Backup ..
- Configuring Maria DB Databases

10. Providing Apache HTTPD Web Service

- Configuring Apache HTTPD
- Configuring a Web Server
- Configuring and Troubleshooting Virtual Hosts
- Configuring a Virtual Host
- Configuring HTTPS
- Configuring a TLS-enabled Virtual Host
- Integrating Dynamic Web Content
- Configuring a Web Application

11. Writing Bash Scripts

- Bash ShellScripting Basics
- Writing Bash Scripts

12. Bash Conditionals and Control Structures

- Enhancing Bash shell Scripts with Conditionals and Control Structures

13. Configuring theShell Environment

- Changing the shell Environment
- Working with Login and Non-Login shells



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