PRAGATHI TECHNOLOGIES

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Redhat Linux Administration (RH – 254)

1.Controlling Services and Daemons

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

2. Managing IPv6 Networking

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

3. Configuring Link Aggregation and Bridging

- Configuring Network Teaming
- Practice : Configuring Network Teaming
- Managing Network Teaming
- Practice : Managing Network Teaming
- Configuring Software Bridges
- Practice : Configuring Software Bridges
- Lab : Configuring Link Aggregation and Bridging

4. Network Port Security

- ➤ Managing Firewalld
- ➤ Practice : Configuring a Firewall
- ➤ Managing Rich Rules
- ➤ Practice : Writing Custom Rules
- ➤ Masquerading and Port Forwarding
- ➤ Practice : Forwarding a Port
- ➤ Managing SE Linux Port Labelling
- ➤ Practice : Managing SE Linux Port Labeling
- ➤ Lab : Network Port Security

5. Managing DNS for Servers

- ➤ DNS Concepts
- ➤ Practice : DNS Resource Record
- ➤ Configuring a Caching Nameserver
- ➤ Practice : Configuring unbound as a Caching Nameserver
- ➤ DNS Troubleshooting
- ➤ Practice : Troubleshooting DNS
- ➤ Lab : Managing DNS for Servers

6. Configuring Email Transmission

- ➤ Configuring Send-only Email Service
- ➤ Practice : Configuring Send-only Email Service
- ➤ Lab : Configuring Email Transmission

7. Providing Remote Block Storage

- ➤ ISCSI Concepts
- ➤ Practice : ISCSI Concepts
- ➤ Providing ISCSI Targets
- ➤ Practice : Providing ISCSI Targets
- ➤ Accessing ISCSI Storage
- ➤ Practice : Accessing ISCSI Storage
- ➤ Lab : Providing Block-based Storage

8. Providing File –Based Storage

- ➤ Exporting NFS File Systems
- ➤ Practice : Exporting NFS File Systems

- ➤ Protecting NFS Exports
- ➤ Practice : Protecting NFS Exports
- ➤ Providing SMB File Shares
- ➤ Practice : Providing SMB File Shares
- ➤ Performing a Multiuser SMB Mount
- ➤ Practice : Performing a Multiuser SMB Mount
- ➤ Lab : Providing File-based Storage

9. Configuring MariaDB Databases

- ➤ Installing MariaDB
- ➤ Practice : Installing MariaDB
- ➤ Working with MariaDB Databases
- ➤ Practice : MariaDB Commands
- ➤ Managing Database Users and Access Right
- ➤ Practice : Managing Users
- ➤ Creating and Restoring MariaDB Backups
- ➤ Practice : Restoring a MariaDB Database from Backup
- ➤ Lab : Configuring MariaDB Databases

10. Providing Apache HTTPD Web Service

- ➤ Configuring Apache HTTPD
- ➤ Practice : Configuring a Web Server
- ➤ Configuring and Troubleshooting Virtual Hosts
- ➤ Practice : Configuring a Virtual Hosts
- ➤ Configuring HTTPS
- ➤ Practice : Configuring a TLS-enabled Virtual Host
- ➤ Integrating Dynamic Web Content
- ➤ Practice : Configuring a Web Application
- ➤ Lab : Providing Apache HTTPD Web Service

11. Writing Bash Scripts

- ➤ Bash Shell Scripting Basics
- ➤ Practice : Writing Bash Scripts
- ➤ Lab : Writing Bash Scripts

12. Bash Conditionals and Control Structures

- ➢ Enhancing Bash Shell Scripts with Conditionals and Control Structures
- ➢ Practice : Enhancing Bash Shell Scripts with Conditionals and Control Structures
- ➢ Lab : Bash Conditionals and Control Structures

13. Configuring the Shell Environment

- ➢ Changing the Shell Environment
- ➢ Practice : Working with Login and Non-Login Shells
- ➢ Lab : Configuring the Shell Environment