Red Hat Enterprise Linux 8 – RHCE Syllabus

RH124 - Red Hat System Administration I

- **Get started with Red Hat Enterprise Linux**
- Describe and define open source, Linux distributions, and Red Hat Enterprise Linux.

- **Access the command line**
- Log into a Linux system and run simple commands using the shell.

- **Manage files from the command line**
- Copy, move, create, delete, and organize files while working from the bash shell.

- **Get help in Red Hat Enterprise Linux**
- Resolve problems by using local help systems.

- **Create, view, and edit text files**
- Manage text files from command output or in a text editor.

- **Manage local users and groups**
- Create, manage, and delete local users and groups, as well as administer local password policies.

- **Control access to files**
- Set Linux file system permissions on files and interpret the security effects of different permission settings.
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- **Monitor and manage Linux processes**
- Evaluate and control processes running on a Red Hat Enterprise Linux system

.Control services and daemons

- Control and monitor network services and system daemons using systemd.

- **Configure and secure SSH**
- Configure secure command line service on remote systems, using OpenSSH.

- **Analyze and store logs**
- Locate and accurately interpret logs of system events for troubleshooting purposes.

- **Manage networking**
- Configure network interfaces and settings on Red Hat Enterprise Linux servers.

- **Archive and transfer files**
- Archive and copy files from one system to another.

- **Install and update software**
- Download, install, update, and manage software packages from Red Hat and yum package repositories.

- **Access Linux files systems**
- Access, inspect, and use existing file systems on storage attached to a Linux server.

- **Analyze servers and get support**
- Investigate and resolve issues in the web-based management interface, getting support from Red Hat to help solve problems.

- **Comprehensive review**
- Review the content covered in this course by completing hands-on exercise

RH134 - Red Hat System Administration II

- **Improve command line productivity**
- Run commands more efficiently by using advanced features of the bash shell, shell scripts, and various utilities provided by Red Hat Enterprise Linux.

- **Schedule future tasks**
- Schedule commands to run in the future, either one time or on a repeating schedule.

- **Tune system performance**
- Improve system performance by setting tuning parameters and adjusting scheduling priority of processes.

- **Control access to files with ACLs**
- Interpret and set access control lists (ACLs) on files to handle situations requiring complex user and group access permissions.

- **Manage SELinux security**
- Protect and manage the security of a server by using SELinux.

- **Maintain basic storage**
- Create and manage storage devices, partitions, file systems, and swap spaces from the command line.

- **Manage logical volumes**
- Create and manage logical volumes containing file systems and swap spaces from the command line.

- **Implement advanced storage features**
- Manage storage using the Stratis local storage management system and use VDO volumes to optimize storage space in use.

- **Access network-attached storage**
- Use the NFS protocol to administer network-attached storage.

- **Control the boot process**
- Manage the boot process to control services offered and to troubleshoot and repair problems.

- **Manage network security**
- Control network connections to services using the system firewall and SELinux rules.

- **Install Red Hat Enterprise Linux**
- Install Red Hat Enterprise Linux on servers and virtual machines.

RH294 - Red Hat System Administration III

- **Introduce Ansible**
- Describe Ansible concepts and install Red Hat Ansible Engine.

- **Deploy Ansible**
- Configure Ansible to manage hosts and run ad hoc Ansible commands.

- **Implement playbooks**
- Write a simple Ansible Playbook and run it to automate tasks on multiple managed hosts.

- **Manage variables and facts**
- Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed hosts.

- **Implement task control**
- Manage task control, handlers, and task errors in Ansible Playbooks.

- **Deploy files to managed hosts**
- Deploy, manage, and adjust files on hosts managed by Ansible.

- **Manage large projects**

- Write playbooks that are optimized for larger, more complex projects.

- **Simplify playbooks with roles**
- Use Ansible roles to develop playbooks more quickly and to reuse Ansible code
- **Troubleshoot Ansible**
- Troubleshoot playbooks and managed hosts.

- **Automate Linux administration tasks**
- Automate common Linux system administration tasks with Ansible.