CentOS 8 Linux Administration - Level II

1. **An Introduction to Bash Shell Scripting**
   Understanding Shell Scripting Core Elements
   Using Variables and Input
   Using Conditional Loops
   Lab

2. **Scheduling Tasks**
   Configuring Cron to Automate Recurring Tasks
   Configuring at to Schedule Future Tasks
   Lab

3. **Basic Kernel Management**
   Understanding the Role of the Linux Kernel
   Working with Kernel Modules
   Upgrading the Linux Kernel
   Tuned
   Lab

4. **Managing Storage**
   Understanding MBR and GPT Partitions
   Managing Partitions and File Systems
   Mounting File Systems
   Lab

5. **Managing Advanced Storage**
   Understanding LVM
   Creating LVM Logical Volumes
   Resizing LVM Logical Volumes
   Configuring Stratis
   Configuring VDO
   Lab

6. **Managing and Understanding the Boot Procedure**
   Managing Systemd Targets
   Working with GRUB 2
   Lab

7. Essential Troubleshooting Skills

Understanding the CentOS 8 Boot Procedure
Passing Kernel Boot Arguments
Using a Rescue Disk
Fixing Common Issues
Recovering Access to a Virtual Machine
Lab

8. Managing Apache HTTP Services

Configuring a Basic Apache Server
Understanding Apache Configuration Files
Creating Apache Virtual Hosts
Lab

9. Managing SELinux

Understanding SELinux Working and Modes
Understanding Context Settings and the Policy
Restoring Default File Contexts
Using Boolean Settings to Modify SELinux Settings
Diagnosing and Addressing SELinux Policy Violations
Lab

10. Configuring a Firewall

Understanding Linux Firewalling
Working with Firewalld
Lab

11. Accessing Network Storage

Using NFS Services
Using CIFS Services
Mounting Remote File Systems Through fstab
Using Automount to Mount Remote File Systems
Lab

12. Docker

Installing the Docker Engine
Creating our first Docker container
Building Docker images
Storing and retrieving Docker images from Docker Hub
Lab