

Linux System Administration III

Course Outline

Day 1:

link aggregation and bridging on CentOS Linux, Port security using advanced SELinux and firewalld

- Configure and troubleshoot advanced network interface functionality including bonding, teaming, and local software bridges

- Permit and reject access to network services using advanced SELinux and firewalld

Day 2: Manage DNS Server on Centos Linux, Configure Postfix

- Set and verify correct DNS records for systems and configure secure DNS caching

- Relay all email sent by the system to an SMTP gateway for central delivery

Day 3:

Block based storage (iSCSI), File based Storage (NFS, CIFS)

- Provide and use networked iSCSI block devices as remote disks

- Provide NFS exports and SMB file shares to specific systems and users

Day 4:

Configure MariaDB databases, Apache Web Server with virtual hosting,

- Provide a MariaDB SQL database for use by programs and database administrators

- Configure Apache HTTPD to provide Transport Layer Security (TLS)-enabled websites and virtual hosts

Day 5:

BASH Shell Scripting, Configure the shell environment

- Write simple Bash shell scripts

- Use Bash conditionals and other control structures to write shell scripts

- Use environment variables, Bash aliases, and Bash functions