LPIC 2 Linux Engineer Rapid Track

Duration: 5 days (8hrs/day)

Lab Requirement: Koenig-DC (https://linuxlab.koenig-solutions.com)

Module 1 – Capacity Planning

Capacity Planning

Measuring CPU Activity

Measuring Memory Usage

Measuring Disk Activity

Measuring Network Activity

Module 2 – Linux Kernel

Kernel Components

Kernel Modules

Working with Kernel Modules

Monitoring the Kernel

Module 3 – System Startup

Managing Systemd

Managing SysV init

System Recovery with GRUB

Customizing the Initial RAM Disk

Module 4 – Filesystem and Devices

Fstab Configuration

Swap Partitions

Systemd Mount Units

Supporting Btrfs

Working with Encrypted Storage

Module 5 – Advanced Device Administration

iSCSI and SAN Storage

Logical Volume Manager

Extending and Reduce LVM size

Module 6 – Network Configuration

Configuring Network Adapters

Troubleshooting Network Connectivity

Troubleshooting Name Resolution

Module 7 – System Maintenance

Installing Program from Source

Backup up with Tar

Backup up with Rsync

Module 8 – Domain Name Server

Installing the BIND DNS Server

Creating Forward Lookup Zones

Creating Reverse Lookup Zones

Module 9 – Web Services

Installing Apache Web Server

Configuring Virtual Server

Redirecting URLs with Apache

Enabling SSL Encryption with Apache

Implementing NGINX as a Web Server Overview

Module 10 – File Sharing

Introduction to NFS

Configuring NFS Server

Configuring NFS Client

Controlling Access to NFS Shares

Module 11 – DHCP

Building a DHCP Server

Configuring Multiple Subnets in DHCP

Module 12 – Postfix

Introduction to Postfix

Building an SMTP Server

Module 13 – System Security

Working with Firewall

Adding and Removing Services in Firewall

Adding and Removing Port in Firewall