

**Section 1: Introduction** 

# **Ubuntu 24.04 Server Administration**

# What is Ubuntu **CLI Environment Section 2: Basic Linux concepts** Linux filesystem hierarchy Storage Identity System initialization **Section 3: Networking Basic Networking** Section 4: Administration basics Process management Software management Installation of Ubuntu Troubleshooting basics **Section 5: OpenSSH** What is SSH? What is the Kernel? SSH Keys

## Section 6: Virtualization lab setup

What is Virtualization?

What is KVM?

QEMU-img

SSH Tools

Advanced Ubuntu server administration



## **Section 7: System Initialization**

What is Grub2?

Advanced systemd Usage

**On-Demand Processes** 

**HWE** 

## **Section 8: Advanced**

**Filesystem Concepts** 

The setuid and setgid Bits

**Sticky Bits** 

Filesystem Basics

Inodes

Superblock

XFS

## **Section 9: Storage**

**Managing Partitions** 

**Giving Filesystem** 

**Mount Partitions** 

#### **Section 10: Advanced**

**Networking Concepts** 

**Linux Bridges** 

**Bridge Configuration** 

Network Interface Bonding Bond Configuration

# **Section 11: Security**

Access Control Lists (ACLs)

**ACL Entries** 

Adding and Removing a User

AppArmor



# **AppArmor Parser**

**AppArmor Profiles** 

# Section 12: Snappy

Snaps

Ubuntu Core

# **Section 13: Docker**

Containerization What is

Docker?

- Docker Setup
- Creating and Using a Container