Landscape

OEM: Canonical

COURSE DESCRIPTION

This course is intended to enable its attendees to learn how to deploy, administer, and operate Landscape. The focal points of the curriculum are understanding landscape components, installing and configuring them, as well as ongoing Landscape operations for physical and virtual machines (KVM). Each section contains a theory session (Presentation by Instructor) followed immediately by a practical lab. The practical lab introduces a series of core competencies for the section, and the student will sign off on successful completion of each lab. By combining the theoretical background with hands-on exercises, the course encourages better assimilation of the material and a deeper understanding. Finally, the students will be provided with complete step-by-step documentation, ensuring that the material is readily available for future review.

AUDIENCE PROFILE

- The target audience is system administrators, DevOps engineers, and infrastructure operators.

PREREQUISITES

- This section doesn't contain any content.

COURSE OBJECTIVES

By the end of this course, participants will be able to:

- This section doesn't contain any content.

COURSE OUTLINE

Module 1: Day 1

Landscape Administration

- 1.1 Overview & Features
- 1.2 SaaS offering
- 1.3 Private Landscape
  - Machine Prerequisites

- Deployment with Juju
- Changing Configuration Options
- Manual Deployment
- Licensing

- 1.4 CLI
- Laboratory Exercises I
- 1.5 Landscape Role-based access control (RBAC)
- 1.6 Activities List & Event Log
- 1.7 Upgrading Landscape
- 1.8 Monitoring Landscape
- 1.9 Landscape Database & Backup
- 1.10 External Authentication
- 1.11 Logs & Troubleshooting
- Laboratory Exercises II

Module 2: Day 2

Landscape Operations

- 2.1 Registering a new Ubuntu Host
- 2.2 Dashboard
  - Computers Inventory View
  - Host View
  - Hardware View
  - Comments & Tags
- 2.3 Package Management & Repositories
- 2.4 Automatically Applying Patches
- 2.5 Repository management
- Laboratory Exercises III
- 2.6 Remote Power Options and Scripts
- 2.7 Remote Process Management
- 2.8 Monitoring & Reports
- 2.9 Remote User Management
- 2.10 Ubuntu Pro
- 2.11 Snaps
- 2.12 Alerting
- Laboratory Exercises IV

Module 3: Day 3

Package management

- 3.1 Ubuntu package operations with
  - dpkg
  - Ubuntu Advanced Packaging Tool (apt)

- 3.2 Resolve package dependencies
- 3.3 Automatic updates
- 3.4 Unattended upgrades

Repository management

- 4.1 Repository categories
- 4.2 Work with custom repositories (PPAs)
- 4.3 Build local mirrors (apt-mirror)
- Laboratory Exercises V