CANONICAL

Landscape Deployment and Operations

Training Curriculum

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Introduction & Scope

This course is intended to enable its attendees to learn how to deploy, administer and operate Landscape. The target audience is system administrators, DevOps engineers, and infrastructure operators. 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 deeper understanding. Finally, the students will be provided with complete step-by-step documentation, ensuring that the material is readily available for future review.

The duration of the course is two days.

Agenda

1. Landscape Administration

- Overview & Features
- SaaS offering
- Private Landscape
- Machine Prerequisites
- Deployment with Juju
- Manual Deployment
- Changing Configuration Options
- Landscape Role-based access control (RBAC)
- Upgrading Landscape
- Monitoring Landscape
- Landscape Database & Backup

2. Landscape Operations for Ubuntu

- Registering a new Ubuntu Host
- Dashboard, Computers Inventory View, Host View, Hardware View, Comments & Tags
- Package Management & Repositories
- Remotely Applying Patches and managing packages
- Remote Power Options and Scripts

- Remote Process Management
- Reports & Monitoring
- Remote User Management
- Alerting

Lab Session 1

- 1. Intro and CLI
  - 1.1 Generate API credentials
  - 1.2 Install landscape-api client
- 2. Landscape RBAC
- 3. Activities list & Event log

Lab Session 2

- 4. Register a Ubuntu host
- 5. Landscape Dashboard
  - 5.1 Computer inventory view
  - 5.2 Host view
- 6. Automatically Applying Patches
  - 6.1 Upgrade Profiles
  - 6.2 Upgrade script

Lab Session 3

- 7. Remote power options
- 8. Remote process management
- 9. Reports & Monitoring
- 10. Remote user management
- 11. Alerting

Lab Session 4

- 12. Package management
  - 12.1 dpkg
  - 12.2 apt
  - 12.3 apt-file
  - 12.4 apt-key
  - 12.5 apt-mark
  - 12.6 PPAs