For quote and registration: email ron@thepscg.com or call +972-54-5529466 (Course #: LFS305)

Deploying and Managing Linux on Azure

Summary

This course is designed to bring Microsoft Professionals up to speed on deploying Linux on Azure. It contains a thorough introduction to Essential Linux System Administration, as well as discussing containers and virtualization. It goes into depth on administering Linux on Azure and use of the important tools required to maintain deployment.

Length

4 Days

Type

Hands-On

Experience Level

Beginner

Target Audience

This course is designed to provide students with the necessary skills and abilities to work as a professional Linux system administrator. Students should have basic knowledge of Linux and its most common utilities and text editors.

Course Overview

In this course you'll learn how to deploy and manage Linux in Azure environments.
Some topics covered include:

- Essential Linux System Administration
- Using containers including Docker and Moby, Azure Agent on Linux and Azure services
- A survey of Puppet, Ansible, CHef, Saltstack, Nagios, Zabbix
- Troubleshooting and monitoring

Course Outline

1. Getting started, Linux and Azure Fundamentals
    - Getting started with Azure
    - Deploying a Linux instance
    - Linux and Open Source Fundamentals
    - Working with shells
    - Users, Groups and Permissions
    - Configuring sudo
    - Managing software in Linux
    - Working with GIT
2. Advanced Linux System Administration

- Managing Storage
- Managing Networking
- Working with Systemd
- Monitoring System Logs
- Integrating Active Directory
- Securing Linux with Mandatory Access Control

3. Working with Containers on Linux
    - Understanding the Need for Containers
    - Understanding Container Components
    - Comparing Container Technologies
    - Creating and Running Docker Containers
    - Understanding Docker Networking
    - Orchestrating Containers
    - Using Docker Compose
    - Using Docker Machine
    - Using Docker VM Extension
    - Managing Azure Container Services
    - working with Docker on Azure
4. Deploying Linux in Azure
    - Understanding Deployment Options
    - Using Azure Resource Manager
    - Creating Virtual Machine Images
    - Using Azure Virtual Machine Agent
    - Using Azure Virtual Machine Extensions
5. Automation and Orchestration
    - Understanding Devops and Automation
    - Using Cloud-init
    - Using Ansible
    - Using Salt
    - Using Puppet
    - Using Chef
6. Monitoring and Troubleshooting
    - Troubleshooting Linux
    - Introduction to Nagios
    - Introduction to Zabbix
    - Monitoring and Troubleshooting in Azure