



Implementing and using Nomad

This is an instructor-led course designed to equip technical people who are responsible for implementing Nomad and PXE Everywhere into a customer environment. The course is conducted over 2 days, starting with the basics of content distribution in a System Center Configuration Manager environment, familiarization with the concepts of Nomad and considerable hands-on exercises to get experience installing, configuring and using Nomad to achieve software distribution, software updates management and OS deployment in remote locations without the need for servers in these locations.

Target audience

This course is suitable for:

- Technical staff responsible for the implementation of Nomad and PXE Everywhere
- Technical staff who require a sound technical understanding of the features of Nomad and PXE Everywhere

Learning outcomes

This course aims to provide delegates with:

- An understanding of the challenges of software distribution, software updates and OS deployment in a distributed Configuration Manager environment, and how these are addressed by Nomad
- The ability to clearly describe how Nomad works at a detailed level
- The ability to design and implement the features of Nomad to address specific requirements for content distribution and OS deployment in remote locations
- Hands-on experience installing, configuring and operating Nomad to achieve reduction in server infrastructure and bandwidth usage

Required knowledge and experience

Delegates attending this course are expected to be familiar with:

- Using Microsoft System Center Configuration Manager for Software Distribution and managing Software Updates
- Using the Operating System Deployment feature of Configuration Manager, including
 - creating deployment Task Sequences
 - using Pre-Boot Execution Environment (PXE) to initiate an OS deployment

- managing WIM files

Course outline

The following topics are covered in this course:

- Understanding the problem
- Nomad concepts
 - Bandwidth management
 - Dynamic peer-to-peer election and distribution
 - Cache management
 - Ensuring data integrity
 - Managing sites with multiple subnets
 - FanOut
 - Remote Differential Compression
 - PXE Everywhere
 - Peer Backup Assistant
- Architecture
- Installing (lab)
- Deploying software using Nomad (lab)
- Deploying software updates with Nomad (lab)
- Using Fanout and Single Site Download (lab)
- OSD refresh and bare metal scenarios
- Using the Nomad Pre-Cache feature
- Using Nomad for OSD refresh (lab)
- Using Nomad for OSD bare-metal (lab)
- Using Nomad Peer Backup Assistant (lab)

For more information, please contact the 1E Training Team
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