Training: Microsoft

MS-55133 PowerShell for System Center Configuration Manager Administrators

Microsoft Partner

TRAINING GOALS:

This three-day instructor-led course provides students with the knowledge and skills needed to use PowerShell for System Center Configuration Manager (SCCM) administration. In this course, students learn how to access the PowerShell cmdlets included with SCCM 1802 and use them to perform configuration tasks for a primary site. Individual cmdlets will be used in working with objects such as Boundaries, Boundary Groups, Collections, Software Deployment, Patching, Compliance Settings, OSD Task Sequences, and many others. Basic scripting will also be covered so that students can learn how to put PowerShell to use when working with large sets of objects.

After completing the course, students will be able to:

- Create additional site system roles on existing or new servers.
- Modify high level site settings.
- Create and modify Discovery Methods, Boundaries and Boundary Groups.

Audience profile:

This course is intended for IT professionals who need to manage the day-to-day environment of an SCCM 1802 or newer environment. Knowledge of the workings of a standalone primary SCCM site and basic PowerShell experience is recommended.

CONSPECT:

- Review of System Center Configuration Manager Concepts
  - Architecture of an System Center Configuration Manager 1802 Installation
  - Managing Assets
  - Content Delivery and Management
  - Security, Monitoring, and Remote Management
- Managing Resources
  - Implementing Discovery
  - Organizing Resources with Collections
  - Working with Boundaries
- Working with Clients
  - Installing the Configuration Manager Client

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- Managing Client Settings
- Managing Client Operations
- Monitoring Client Status

- Distributing Software
  - Configure the Software Distribution Components
  - Working with Distribution Points
  - Creating Content for Distribution
  - Deploying Software Applications
- Updating Systems with WSUS and SCCM
  - Integrating Configuration Manager and WSUS
  - Managing Updates through Software Update Groups
  - Creating and Deploying Update Packages
  - Working with Automatic Deployment Rules
- How PowerShell Can Manage Compliance Settings
  - Creating Compliance Settings Objects
  - Deploying and Monitor the Baseline
- Configuring Operating System Deployment Objects
  - Preparing the OSD Environment
  - Working with Task Sequences
- Working at the Site Level
  - Modify the Site
  - Adding Site System Roles
  - Adding a Secondary Site
- Security and Monitoring
  - Configuring Role Based Administration
  - Implementing Endpoint Protection
  - Configuring Monitoring Options
- Using PowerShell Scripting to Automate SCCM Tasks
  - Review of Scripting Constructs

  Introduction to the Configuration Manager WMI Classes

REQUIREMENTS:

- Before attending this course, students must have:
  - Basic Windows and Active Directory knowledge.

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- Conceptual knowledge of Configuration Manager objects and how they interact.
- Basic experience performing configuration tasks in SCCM using the graphical console.
- Experience working from a command prompt.
- Basic knowledge of the fundamentals of Windows PowerShell.

Difficulty level



CERTIFICATE:

Certificate of completing an authorized Microsoft training.

TRAINER:

Microsoft Certified Trainer.

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