LEARNING PLAN

Server Administration & Tools

Learn the management tools and techniques for the server platforms you administer. Develop the skills to use proactive monitoring and script-driven management. Use your new knowledge and expertise to turn your IT department into a well-oiled machine, for each server platform.

Areas of focus

• Managing Windows Server environments
• Managing Linux server environments
• Hybrid server environments

Curriculum

VIDEOS FROM COURSE

PowerShell 4 Foundations 6 hours
- Welcome to PowerShell 4 Foundations! 21 min
- Installing PowerShell 4.0 15 min
- Getting Started 23 min
- Getting Help 25 min
- Commands 17 min
- The Pipeline 15 min
- Objects 26 min
- Extending the Shell 18 min
- Extending Objects 19 min
- Formatting Output 18 min
- The Pipeline Returns 21 min
- Providers 14 min
- WMI & CIM 27 min
- Remoting 20 min
- Jobs 17 min
- Workflows 20 min
- Scripting - Getting Started 17 min
- Scripting - Essentials 32 min
- Scripting - The Real World 26 min
- Desired State Configuration - Getting Started 21 min
- Desired State Configuration - Making it So! 18 min
- Tips, Tools, and Resources 7 min

VIDEOS FROM COURSE

Microsoft Windows Server 2012 70-410 with R2 Updates 19 hours
- Course Introduction 7 min
- Installing and Configuring Servers 41 min

Prerequisite Plans

FUNDAMENTAL LEVEL

- Virtualization Concepts
- Information Security Fundamentals

Current Plan

ASSOCIATE LEVEL

- Server Administration & Tools

Possible Next Plans

EXPERT LEVEL

- Advanced Server Technologies
- Advanced Virtualization Skills
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<th>Videos from Course</th>
<th>Microsoft Windows Server 2012 70-410 with R2 Updates (cont.)</th>
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<tr>
<td>Modifying Your Installation</td>
<td>33 min</td>
</tr>
<tr>
<td>Configuring Server Core</td>
<td>21 min</td>
</tr>
<tr>
<td>Configure Servers for Remote Management</td>
<td>20 min</td>
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<tr>
<td>Introduction to Active Directory and Basic Installation</td>
<td>41 min</td>
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<tr>
<td>Active Directory: Managing Accounts</td>
<td>42 min</td>
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<tr>
<td>Deploy Active Directory IaaS</td>
<td>41 min</td>
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<tr>
<td>Active Directory Domain Controller Installation</td>
<td>62 min</td>
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<tr>
<td>Active Directory: Automating User Accounts</td>
<td>33 min</td>
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<tr>
<td>Active Directory: Computer Accounts, Groups Part 1</td>
<td>45 min</td>
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<tr>
<td>Active Directory: Groups Part 2, Organizational Units, Delegation</td>
<td>36 min</td>
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<tr>
<td>Group Policy: Essentials and Multiple Local</td>
<td>27 min</td>
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<tr>
<td>Group Policy: Central Store and Refresh</td>
<td>29 min</td>
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<tr>
<td>Group Policy: Scope of Management, Preferences, Starter GPO</td>
<td>38 min</td>
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<tr>
<td>Group Policy: Security and Templates</td>
<td>39 min</td>
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<tr>
<td>Group Policy: Rule and Application Enforcement</td>
<td>25 min</td>
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<tr>
<td>Group Policy: Windows Firewall</td>
<td>34 min</td>
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<tr>
<td>IPv4</td>
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<td>IPv6</td>
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<tr>
<td>DHCP</td>
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<td>DNS</td>
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<tr>
<td>Desired State Configuration</td>
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<tr>
<td>Configuring Hyper-V</td>
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<tr>
<td>Hyper-V in R2</td>
<td>30 min</td>
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<tr>
<td>Configuring Local Storage</td>
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<tr>
<td>Storage Spaces Using Enclosures</td>
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<td>Share and NTFS Permissions</td>
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<td>Additional Storage Features</td>
<td>38 min</td>
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<tr>
<td>Work Folders</td>
<td>35 min</td>
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<tr>
<td>Configuring Printers</td>
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<tr>
<td>Active Directory: UGMC and Operations Masters</td>
<td>46 min</td>
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<tr>
<td>Active Directory: RODC and Cloned Domain Controllers</td>
<td>50 min</td>
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<tr>
<td>Active Directory: Maintenance</td>
<td>58 min</td>
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<tr>
<td>Active Directory: Managing Accounts</td>
<td>41 min</td>
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<tr>
<td>Group Policy Objects: Part 1</td>
<td>28 min</td>
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<tr>
<td>Group Policy Objects: Part 2</td>
<td>35 min</td>
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<tr>
<td>Group Policy Objects: Part 3</td>
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<tr>
<td>Group Policy Objects: Part 4</td>
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<td>Group Policy Objects: Part 5</td>
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<td>Group Policy Objects: Part 6</td>
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<tr>
<td>Group Policy Objects: Part 7</td>
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<td>VPN: Part 1</td>
<td>23 min</td>
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<tr>
<td>VPN: Part 2</td>
<td>31 min</td>
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<tr>
<td>VPN: Part 3, Routing</td>
<td>34 min</td>
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<tr>
<td>VPN: Part 4</td>
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<tr>
<td>Network Address Translation and RADIUS</td>
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<td>RADIUS Templates and Network Policy Processing</td>
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<td>Network Access Protection Part 1</td>
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<td>Network Access Protection Part 2</td>
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<td>DNS Part 1</td>
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<tr>
<td>DNS Part 2</td>
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<td>Web Application Proxy</td>
<td>44 min</td>
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<td>File Server Resource Manager Part 1</td>
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<td>File Server Resource Manager Part 2</td>
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<td>Distributed File System</td>
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<td>Distributed File System R2</td>
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<td>Encrypting File System and BitLocker</td>
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<td>Monitoring Servers Part 1</td>
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<td>Monitoring Servers Part 2</td>
<td>20 min</td>
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<tr>
<td>Monitoring Servers Part 3</td>
<td>29 min</td>
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<tr>
<td>Monitoring Servers Part 4</td>
<td>34 min</td>
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<tr>
<td>Windows Server Update Services Part 1</td>
<td>38 min</td>
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<tr>
<td>Windows Server Update Services Part 2</td>
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<tr>
<td>Course Introduction</td>
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<tr>
<td>Network Load Balancing Overview</td>
<td>9 min</td>
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<tr>
<td>Network Load Balancing Demo: Configuring the Cluster</td>
<td>10 min</td>
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<tr>
<td>Network Load Balancing Demo: Modifying the Cluster</td>
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Configuring Cluster Storage and Networking 21 min
Configuring a Cluster 33 min
Advanced Clustering and PowerShell 35 min
Virtual Machine Movement: Clusterless 22 min
Virtual Machine Movement: Clustered 28 min
Configure and Optimize Storage 36 min
BranchCache and NFS 28 min
Dynamic Access Control Overview 6 min
Dynamic Access Control Demo 25 min
Configure Advanced File Services 38 min
Configure Site-Level Fault Tolerance: Replicas 29 min
Configuring Site-Level Fault Tolerance: Clusters 23 min
Configure and Manage Backups: Windows Backup 22 min
Configure and Manage Backups: Azure and VSS 22 min
Recover Servers 22 min
Active Directory Federation Services (ADFS) Overview 12 min
Active Directory Federation Services (ADFS) Demo 33 min
Active Directory Federation Services (ADFS) Workplace Join 9 min
DHCP Overview 12 min
DHCP Reservations, Policies, and Filters 9 min
DHCP: IPv6, Multicast Scopes, Superscopes 15 min
DHCP High Availability: Split Scopes 9 min
DHCP High Availability: DHCP Failover 8 min
DHCP: DNS Registration and DHCP Name Protection 12 min
IP Address Management (IPAM) Overview and Server Configuration 27 min
IP Address Management (IPAM) Implementation 22 min
DNSSec Overview, Keys, and Resource Records 9 min
DNSSec Demo 25 min
DNS Socket Pool and DNS Cache Locking 10 min
DNS Logging, Analyze Zone Level Statistics, Configure Delegated Administration 7 min
DNS: Configure Recursion, Netmask Ordering, and GlobalNames 11 min
Active Directory Certificate Services: Overview 6 min
Active Directory Certificate Services: Hierarchy, Standalone vs Enterprise, Install an Enterprise Certificate Authority 17 min
Active Directory Certificate Services: Manual Enrollment and Revocation 13 min
Active Directory Certificate Services: CRL Distribution Point and Online Responder 13 min
Active Directory Certificate Services: Issue Web Server Certs 11 min
Active Directory Certificate Services: Autoenrollment 9 min
Active Directory Certificate Services: Configure and Manage Key Archival and Recovery 21 min
Active Directory Certificate Services: CA Role Separation and Certificate Renewal 11 min
Active Directory: Multi-Domain and Multi-Forest Environments 15 min
Active Directory: Interoperability with Previous Versions, Upgrading Domains and Forests, Functional levels 14 min
Active Directory Trusts 21 min
Active Directory: SID Filtering, Name Suffix Routing, UPN 10 min
Active Directory Sites: Overview 8 min
Active Directory Sites: Demo 17 min
Active Directory: RODC Replication 14 min
Active Directory: Sysvol and Replication 13 min
Active Directory Rights Management Services Overview 19 min
Active Directory Rights Management Services Demo 19 min
70-417 R2 Course Introduction 6 min
Planning for a Server Installation 18 min
Server Installation Levels 10 min
Windows Migration Tools Overview and Tools Demo 12 min
Windows Migration Tools: Migrating a Role 7 min
Install Windows Server Full and Core 7 min
Features on Demand 18 min
Switching Between Full and Core Installations 9 min
Add and Remove Features in Offline Images 7 min
Configuring Server Core Intro and Remote Desktop 6 min
Configuring Server Core with Commands and Sconfig 11 min
Configure Services 12 min
NIC Teaming 9 min
Desired State Configuration Overview 10 min
Desired State Configuration Demo 19 min
Remote Management Methods 12 min
Remote Management Methods: Server Core 9 min
Remote Management Methods: Manage Non-Domain Joined Servers 9 min
### Microsoft Windows 10 70-697: Configuring Windows Devices (cont.)

- Remote VPN Authentication and Demonstrations: 12 min
- Direct Access: 10 min
- Remote Desktop: 15 min
- File History: 9 min
- Backup and Restore: 15 min
- System Restore: 14 min
- Driver Rollback: 4 min
- Refresh and Recycle Windows: 3 min

### Microsoft Windows 10 70-698: Installing and Configuring Windows 10

10 hours

- 70-698 Course Introduction: 6 min
- Intro to the Implement Windows Section: 5 min
- Hardware Requirements and Compatibility: 8 min
- Upgrades Versus Clean Installs: 7 min
- Windows 10 Editions: 8 min
- Requirements for Special Features: 8 min
- Creating Appropriate Installation Media: 12 min
- Performing Various Installations: 16 min
- Performing a Clean Install: 11 min
- Installing Additional Windows Features: 7 min
- Additional Regional and Language Support: 5 min
- Device Drivers: 7 min
- Advanced Device Driver Management: 8 min
- Start Menu, Desktop, Taskbar, and Notification Settings: 13 min
- Accessibility Options: 7 min
- Cortana: 5 min
- Microsoft Edge: 12 min
- Internet Explorer: 8 min
- Hyper-V: 10 min
- Power Settings: 8 min
- Windows Imaging and Configuration Designer (ICD) Tool: 7 min
- Volume Activation: 8 min
- Miscellaneous Activation Topics: 4 min
- Introducing Active Directory: 7 min
- Active Directory and Group Policies: 8 min
- User Account Control (UAC): 8 min
- Intro to the Configure and Support Core Services Section: 3 min
- IPv4 and IPv6 Network Settings: 15 min
VIDEOS FROM COURSE
Microsoft Windows 10 70-698: Installing and Configuring Windows 10 (cont.)
- Configure Services 6 min
- Task Scheduler 8 min
- Your 70-698 Exam 7 min

VIDEOS FROM COURSE
Linux Essentials 7 hours
- Introduction 2 min
- Linux Evolution and Popular Operating Systems 16 min
- Major Open Source Applications 14 min
- Understanding Open Source Software and Licensing 22 min
- ICT Skills and Working in Linux 22 min
- Command Line Basics 21 min
- Using the Command Line to Get Help 20 min
- Using Directories and Listing Files 18 min
- Creating, Moving, and Deleting Files 17 min
- Archiving Files on the Command Line 25 min
- Searching and Extracting Data from Files 34 min
- Turning Commands into a Script 21 min
- Choosing an Operating System 21 min
- Understanding Computer Hardware 23 min
- Where Data is Stored 20 min
- Your Computer on the Network 23 min
- Basic Security and Identifying User Types 14 min
- Creating Users and Groups 13 min
- Managing File Permissions and Ownership 28 min
- Special Directories and Files 15 min

VIDEOS FROM COURSE
LPI Linux LPIC-1 & CompTIA Linux+ Prep (cont.)
- Managing Shared Libraries 13 min
- Using APT 13 min
- Using YUM with RPM Files 11 min
- Using rpm2cpio and yumdownloader 9 min
- Command Line Intro 7 min
- Working with Environment Variables 9 min
- Manipulating Text: Head, Tail, Cat, Split 8 min
- Manipulating Text: Paste, Join, Expand, Unexpand 9 min
- Manipulating Text: sed 10 min
- File Management 9 min
- The "find" Command 12 min
- Using tar, cpio, and cd 20 min
- Compressing with Gzip and Bzip2 11 min
- Standard Input (STDIN), Standard Output (STDOUT), and Standard Error (STDERR) 13 min
- Pipes, Data Redirection, and Xargs 14 min
- Foreground and Background Jobs 14 min
- Signals and PIDs 14 min
- Advanced Process Management 12 min
- Process Priorities (Nice Levels) 17 min
- Regular Expressions with grep, egrep, & fgrep 9 min
- Basic vi Usage 12 min
- Intermediate vi Usage 16 min
- GPT & MBR 18 min
- Formatting Partitions 13 min
- Maintaining Filesystems 13 min
- Mounting & Unmounting 11 min
- Drive Quotas 10 min
- File Ownership & Permissions 10 min
- Changing Permissions & Creation Masks 14 min
- SUID, GUID, & the Sticky Bit 20 min
- Hard & Soft Links 9 min
- File Hierarchy Standard 9 min
- Find & Locate 8 min
- User Profiles & System Profiles 15 min
- Scripting Basics 7 min
- Scripting Conditionals & Loops 13 min
- SQL Data Management 15 min
- X11 (Xorg) Configuration 13 min
- Display Managers 6 min
- Accessibility 7 min
- Managing Users & Groups 9 min
- Password, Group, and Shadow Databases 11 min