COURSE CONTENT SUMMARY

• Configure Microsoft Windows systems to be managed with Ansible.
• Create and manage inventories of managed hosts and provide credentials to manage them to Red Hat Ansible Tower.
• Write Ansible Playbooks to consistently automate multiple tasks and apply them to managed hosts.
• Run individual ad hoc automation tasks and complex playbooks from Red Hat Ansible Tower.
• Create survey forms in Red Hat Ansible Tower to simplify playbook operation.
• Scale an application.
• Parameterize playbooks using variables and facts.
• Write and reuse existing Ansible roles to simplify playbook creation and reuse code.
• Leverage existing PowerShell DSC code to extend the power of Ansible automation.
• Automate common Windows Server system administration tasks using Ansible.

COURSE OVERVIEW

Learn how to automate administration on Windows Server to enable your DevOps workflow using Red Hat Ansible Automation.

Microsoft Windows Automation with Red Hat Ansible (DO417) is designed for Windows Server professionals without previous Ansible experience. In this course, you will use Ansible to write automation playbooks for Microsoft Windows systems to perform common system administration tasks reproducibly at scale. You will use Red Hat Ansible Tower to securely manage and run your Ansible Playbooks from a central web-based user interface.

AUDIENCE

Windows Server administrators interested in automating management tasks and in using automation tools to implement their DevOps workflow.

Prerequisites for this course

Students are expected to have experience as Windows Server administrators. No previous experience with Red Hat Ansible Automation or Linux is required.

ACTION OBJECTIVE

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<tr>
<th>ACTION</th>
<th>OBJECTIVE</th>
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<tr>
<td>Introducing Red Hat Ansible Automation</td>
<td>Describe the purpose and benefits of automating Windows server administration tasks, and the basic architecture of a solution based on Red Hat Ansible Automation.</td>
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<tr>
<td>Running Simple Automation Commands</td>
<td>Prepare Microsoft Windows hosts for automation and Red Hat Ansible Tower as a central automation control system, and run one-off automation tasks on those hosts from Ansible Tower.</td>
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<tr>
<td>Implementing Ansible Playbooks</td>
<td>Write a simple playbook to automate tasks on multiple Microsoft Windows-based hosts, and then use Red Hat Ansible Tower to run it.</td>
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<td>Managing Variables and Facts</td>
<td>Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed hosts.</td>
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<td>Installing and Updating Software</td>
<td>Install, manage, and ensure software is up to date using Ansible Playbooks.</td>
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<td>Implementing Task Control</td>
<td>Manage task execution using loops, conditional tests, and handlers, and recover when tasks fail.</td>
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<tr>
<td>Deploying Files to Managed Hosts</td>
<td>Deploy, modify, and manage files on your managed hosts.</td>
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**Interacting with Users and Domains**
Manage local and domain users, manage Active Directory domains, and generate a list of managed hosts based on domain membership for a Red Hat Ansible Tower dynamic inventory.

**Automating Windows Automation Tasks**
Automate common Windows Server administration tasks.

**Managing Large Projects**
Write playbooks that are optimized for larger and more complex projects and that reuse existing automation code.

**Constructing Ansible Tower Workflows**
Simplify management of jobs and launch complex jobs using Red Hat Ansible Tower.

**Comprehensive Review**
Review tasks from Microsoft Windows Automation with Red Hat Ansible.

**IMPACT OF THIS TRAINING**

**Impact on the organization**
Effective use of Red Hat Ansible Automation for the Windows IT infrastructure helps improve operational agility while ensuring necessary security, consistency, and repeatability of management operations. In conjunction with training on Linux and network automation from Red Hat, cross-platform automation solutions managed from a “single pane of glass” becomes feasible.

**Impact on the individual**
Students will write and run Windows automation tasks using Red Hat Ansible Automation in a Windows environment. They will perform common administrative tasks, write Ansible projects from their Windows workstation, store the history of all changes in a Git-based version control system, and run and troubleshoot those tasks from the web interface of Red Hat Ansible Tower.

**ABOUT RED HAT**
Red Hat is the world’s leading provider of open source software solutions, using a community-powered approach to reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

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<th><strong>NORTH AMERICA</strong></th>
<th><strong>EUROPE, MIDDLE EAST, AND AFRICA</strong></th>
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