

Ansible for engineers

A 3 day **Hands on** training course



Description

An introduction to automation using ansible. Ansible is a general purpose IT automation platform that can be used for a number of purposes. The course covers configuration management, cloud provisioning and application deployment with ansible. Hands on sessions follow all major sections.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Install ansible.
- ✓ Automate tasks with ansible.
- ✓ Write ansible playbooks.



Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Administrators and developers automating tasks.

Prerequisites

Linux administration skills.

Duration: 3 days

Customer rating: New course

Generic training



Generic training complements product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small class sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise your course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

Ansible for engineers

Course content

What is ansible?

The language, the engine, the framework. Uses of ansible, orchestration. Hands on: Installing ansible.

Ansible architecture

Controlling machines, nodes, Agentless, SSH, modules, JSON protocol. Configuration management, inventories, playbooks, modules, roles. Hands on: Getting started, running ad hoc commands.

Ansible and Vagrant

Prototyping and testing. Hands on: Using ansible with Vagrant.

Ad hoc commands

Parallelism, shell commands, managing files and directories, file transfer, package management, manage user and groups, deploying applications, service management, background jobs, checking log files, managing cron jobs. Hands on: Using ad hoc commands.

Playbooks

ansible-playbook, users, `sudo`, YAML, plays, tasks, handlers, modules. Hands on: Running playbooks.

More playbooks

Handlers, variables, environmental variables, playbook variables, inventory variables, variable scope and precedence, accessing variables, facts, ansible vault. Conditionals, `wait_for`. Hands on: Using variables and conditions in playbooks.

Roles and includes

Dynamic includes, Handler includes, playbook includes. Roles, role parts: handlers, files, templates, cross platform roles, ansible galaxy. Hands on: includes example, building roles.

Inventories

`/etc/ansible/hosts`, inventory variables, static inventories, dynamic inventories. Hands on: Static and dynamic inventories.

Miscellanea

Individual server cookbooks, Main playbook for configuring all servers. Hands on: Playbooks.

What our customers say

"Absolutely brilliant, very knowledgeable and helpful trainer would recommend to teach anyone. Kept me interested 100% of the time which is very impressive as this does not happen often, if at all!"

O. B. Network Rail

"The best technical course I've been on!"

L. W. Fujitsu Telecoms Europe

"Very well thought out and structured course. Would recommend 100%. Lots of equipment, good quality."

A.R. Unipart

"Course content is interesting. Relevant to current systems and presented well."

S.S-T. Arqiva

