

"Ansible in 3 days! Everything you need to know"

Training information:

Duration: 3 days (24 hours)

Training hours: 09:00-17:00

Form: on-line

Teaching methods: lectures, workshops, laboratories

Document confirming the completion of training: certificate

Language: Polish

Proce online course: 3 100 PLN net (3 813 PLN gross)

Trener: **Jakub Muszyński**

DevOps practitioner @Blue Soft, consultant for 'special tasks', SysAdmin and Developer. Familiar with large organisations (Inteligo, PKO, SGB BANK) and startups. AWS - Azure - Ansible - Evangelist. Specialises in Ansible, CI/CD processes, governance, Kubernetes and has 'multi-platform' experience: IoT, Rpi, Arduino.

Requirements:

- The trainee should have his **own laptop with any operating system** installed. The software needed for the training will be installed on a virtual machine and available in the public cloud.
- Grafana will be accessed through any **web browser**, such as firefox, chrome, which should be installed on the participant's computer.
- Participants will need any **SSH client** that enables ssh login to the VM.
- A locally installed **notepad** will be useful, np. notepad++.

Course syllabus:

Introduction

- Overview of orchestration systems;
- What is Ansible? YAML and Jinja basics;
- Ansible basics;
- The lab environment - firing away;
- What is AWX?
- Ways to install Ansible and AWX.

Working with Ansible

- Variables, inventory, smart-inventors, playbooks, modules, roles, collections, tasks, plugins;
- Creating playbooks, roles, collections, working with command-line modules;
- Preparing an environment deployment from scratch, creating playbooks, preparing configuration templates;
- History from 0 to hero - deployment of applications with database and loadbalancer.

Debugging

- Debugging work with Ansible, playbook, Jinja2;
- Debugging modules (Python, PowerShell);
- Running modules, how to test during development.

Ansible Galaxy

- Discussion of role repository, collections;
- Using off-the-shelf solutions to quickly implement complete solutions;
- Learning about the power of communities and how to accelerate work.

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Working in a large organisation in AWX, building an entitlement model

- Discussion of the entitlement model in AWX, group discussion.

Concepts for working with multiple environments

- Dev, test, QA, UAT, PROD - how do you bring it all together and maintain it?
- One common inventory or separate ones?
- The question of where to locate variables - where to define them?

Inventory - dynamic, static, hybrid

- Inventory layout, division into subfolders;
- Dynamic inventory - examples of use;
- Implementation of your own inventory solution.

Dedicated execution environment for the developer

- Concepts and examples of how to configure the local Ansible working environment.

Secrets in the AWX environment

- Ansible-Vault and automatic loading of secrets;
- The concept of keeping secrets in external systems.

Additional topics

- Lookups, TAG'ing, Blocks, RunOnce, Pre and Post tasks;
- Best practices (delegation of tasks, repeat execution of tasks, execution reports);
- Safe restarts

Windows orchestration

- Ansible module in PowerShell 7.x running locally on Linux.

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AWX

- Installation methods, AWX configuration, running with the default env ansible, and with your own venv.

Materials: presentation slides, digital authoring exercises.

Post-training support: materials ready for use in your company.

Knowledge and skills after training

After the training, the trainee will be able to, among other things:

- managing multiple environments,
- writing your own Ansible modules in Python,
- using variables,
- managing your infrastructure in a short space of time.

Information about the Organizer

Name: Fundacja SysOps/DevOps Polska

Address: ul. Zbigniewa Wasiutyńskiego 16, 00-707 Warszawa

Tax Identification Number (NIP): PL113-29-70-799

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