

Ansible & Ansible-Playbooks For Automation

VRTechnologies



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Introduction to Ansible

- Ansible is an open source, command-line IT automation Tool written in Python.
- Ansible is used :
 - To Configure Systems
 - Examples:
 - Create dbadmin user on all servers
 - open some port on all database servers
 - To Deploy Software's/Applications
 - Examples:
 - Install nc command on all servers
 - Install webserver
 - To Updates Systems/To Apply Patches
 - Provisioning
 - Examples:
 - Provisioning servers – But terraform is the best tool for it
- Ansible is a configuration management Tool
- Ansible follows push model and agentless Architecture

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Introduction to Ansible...

- We can use ansible in two ways
- They are:
 - Ansible CLI commands – called ansible ad-hoc commands
 - Ansible Playbooks – Written in simple YAML Files
- Note: Ansible CLI Command/Ad-Hoc Commands or Ansible Playbooks are done with modules only
- What we need to know to work with ansible ?
 - How to install and configure Ansible ?
 - How Ansible Works ?
 - How to run Ansible Ad-Hoc Commands ?
 - What is a module ?
 - How to Develop Playbooks?
 - What is a playbook(s), task(s) ?
 - How to define variables ?
 - How to use variables in playbooks ?
 - How to use conditional statements ?
 - How to use loops ?
 - How to handle errors ?
 - How to use tags ?
 - How to reuse Ansible Playbooks using Roles ?

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Pre-requisites

- **Provisioning Servers – VMWare or From Any Cloud**
- **Knowledge on Unix/Linux Environment**
 - **Basic Commands**
 - **Usage of vi/vim commands to create a file**
 - **What is ssh connection with remote servers ?**
 - **Difference between password-less and password authentication**
- **Basic knowledge on any programming or scripting language**
- **Note: Its good if you have knowledge on python as Ansible is developed with python**
- **Shell Scripting or Python Scripting is mandatory to develop own modules/collections**

Who can Enroll This Course ?

- Any IT Employee who wants to work with Unix/Linux Environment
- Note:
 - Ansible is also used to work with Windows, but I am not covering this part as I am not good at Windows Concepts
 - We are also having UI for Ansible which is Ansible Tower , this is also not covered here

Thank you