Introduction to Ansible

- Ansible is an **Open Source** community project sponsored by Red Hat, it's the simplest way to automate IT.

- Ansible is an **Automation engine** that runs Ansible Playbooks.

- **Simple Automation Language** that can perfectly describe an IT application infrastructure in **Ansible Playbooks**.

Eyes On Cloud

- The simplicity of playbook design makes them usable by every team, which allows people new to Ansible to get **productive quickly**.

- No **Special Coding** Skills are required.

- Playbooks execute **Tasks in order**.

- It helps you automate:
  - Application Deployment
  - Configuration Management
  - Cloud Provisioning
  - Updating Workstations and Servers, and many other tasks.

Eyes On Cloud

Ansible Is Powerful

- You can use Ansible to deploy applications for:
    1. **Configuration Management**
    2. **Workflow Automation**
    3. **Network Automation**

- Ansible can be used to **Orchestrate** the entire **Application life cycle**.

Eyes On Cloud

- Ansible is built around an **Agentless Architecture**.

- Ansible connects to the hosts it manages using **OpenSSH** or **WinRM** and runs tasks, often (but not always) by pushing out small programs called **Ansible modules** to those hosts.

- You can start using Ansible almost immediately because no special agents need to be approved for use and then deployed to the managed hosts.

- Ansible is more efficient and more secure than other alternatives.

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Ansible is Versatile

- Ansible provides Agentless support for **Linux**, **Windows**, **UNIX**, and **Network devices**,

- Ansible provides Agentless support for **Physical**, **Virtual**, **Cloud**, and **Container** environments.

- Ansible Playbooks, written as **YAML text files**, are easy to read and help ensure that everyone understands what they will do.

- Ansible Playbooks and projects are plain text. They can be treated like source code and placed in your existing **version control system**.

Eyes On Cloud

- Ansible is the first automation language that can be read and written across IT.

- It is also the only automation engine that can automate the application life cycle and continuous delivery pipeline from start to finish.

ANSIBLE PLAYBOOK

From development... ...to production.

DEV/TEST   Q/A   OPERATIONS   MANAGEMENT   OUTSOURCERS

Eyes On Cloud

- When your security policy is defined in **Ansible Playbooks**, **scanning,** and **remediation** of sitewide security policies can be **integrated** into other automated processes.

- Instead of being an afterthought, it is an integral part of everything that is deployed.

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