



Red Hat Ansible : The Next Level

Ansible Introduction : As a Tool



Ansible Automation

- **Ansible** is a configuration management tool.
- Let's assume Infra without configuration Management tools like Ansible.
- Use Case -
 - Running 200 Servers on Production.
 - Need to Install Some package on all Servers like - unzip, openssl
 - Install Package on Single Server -
 - SSH/Login Server
 - Check if list packages are already installed
 - If Missing Install required packages
 - Assume it took 5 Min to execute process for one server.
 - For 200 Servers - $200 * 5 = 1000\text{Min}$, ~17 Hrs Job.
 - Chance of Missing Server and Manual Error also be there.

Ansible Automation

- Automate the Use Case - Either Using Python or Shell
- Let's connect the Proming Flow -
 - Script One -
 - Login, Check Package, Install Package
 - Script Two -
 - Accept List of Server in file and execute Script One for all Listed Servers
- Assumption, above process is taking 2Min for each server-
 - $200 * 2 = 400$ Min, ~7 Hrs Job
- Is above Approach Feasible or Best solution for our problem?

Ansible Automation

- Configuration Management tool will solve your problem and can execute same set of Script on all Servers in parallel and execution time will be as minimum as possible.
 - Chef
 - Ansible
 - Puppet
 - Salt
- We will start with Ansible, which is most popular, open source and easy to use tool.

Ansible Automation

- Parallel execution is one of the simplest solution and advantage of Configuration management tool.
- Writing Shell is tough and lengthy compare to Playbooks, Ansible Playbooks are very short in code length.
- Configuration version management is easy with Ansible Playbooks.

Ansible Automation

- Ansible is Open Source Configuration management tool.
- Ansible is very easy to install, setup and very powerful at the same time.
- Ansible will be helpful to perform-
 - Configuration Management
 - Application Deployment
 - Task Automation
 - Infra Orchestration

Thank You...

Don't be the Same! Be Better!!!
