Ansibel

Configuration Management

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- It's a method through which we automate admin tasks.
- Configuration Management tool turns your code into infrastructure
- So your code would be Testable, Repeatable & Versionable.

Pain points:

- Managing user & group accounts
- Dealing with packages
- Taking backup
- Deploying all kinds of applications
- Configure services

Why Configuration Management Tool?

- Complete Automation
- Increase Uptime
- Improve Performance
- Ensure Compliance
- Prevent Errors
- Reduces Cost

- Ansible is an administration tool. What ever system admins (Linux/windows) used to do manually, now we are automating all those tasks by using Ansible (Any CM Tool)
- Can use this tool whether your servers are in on-premises or in the cloud.
- You only need to tell what the desired configuration should be, not how to achieve it
- Through automation, get desired state of server.

Install & Configure Ansible(Server)

Launch Amazon Linux (need not to install ansible in nodes)

```
yum install wget -y
wget http://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
yum install epel-release-latest-7.noarch.rpm -y
sudo yum update -y
sudo yum install git python python-devel python-pip openssl ansible -y
ansible --version
```

Test Environment Setup(All Machines)

adduser ansadmin (in all machines)

passwd ansadmin (in all machines)

visudo (add a line as below) (in all machines)(adding ansible user into sudo users list)

ansadmin ALL=(ALL) NOPASSWD: ALL

To establish ssh connection among all nodes (do it in all machines)

vi /etc/ssh/sshd_config (all mahines)

PasswordAuthentication yes

service sshd restart

Test Environment Setup(Server)

Check sudo works without asking password(In Server)

su - ansadmin

whoami

sudo yum update

ssh <node private IP> (it prompts for password)

Run the following as ansadmin user

ssh-keygen (can see .ssh/both keys in same directory)

copy the ssh keys to all the nodes(be in master) (be in .ssh folder) (asks for password for the last time)

ssh-copy-id ansadmin@<node-private-ip>

Test ssh to test machine, it should not ask password

ssh <node-private-ip>