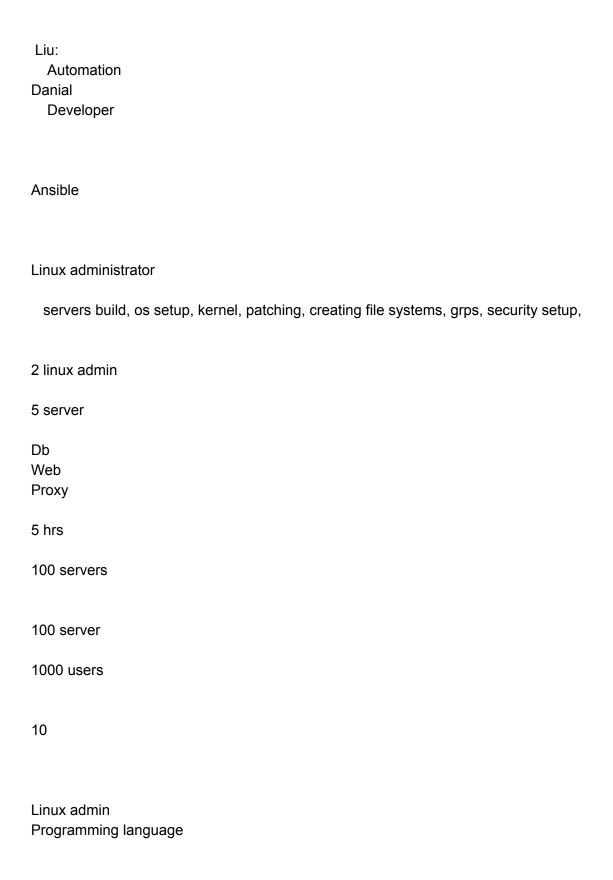
Ansible-8th-oct
Welcome to the session
Introduction
Session
Environment setup
Kevin
System admin
Banu Hadoop
Sudhir:
Middleware techlead
Manoharan:
mUraliMurali Reddy - workign in Middleware Admin team and looking fwd to learn Automation techniques
Sudhir:
Mohammed:
TIN 2013
Prakash:
DBA
Anthony:



# Shell script

# Idempotency Execution

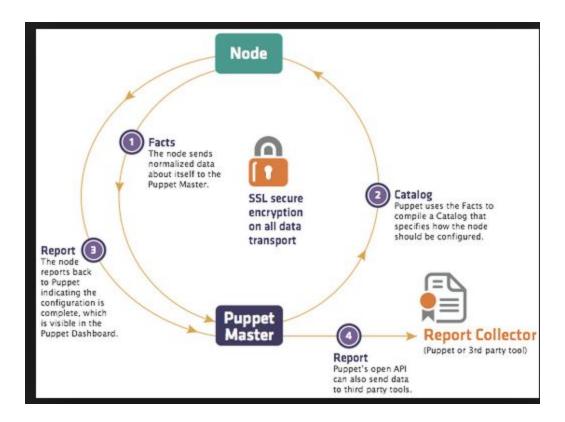
- 1. Reduce declarative approach
- 2. Idempotency
- 3. Remote execution
- 4. feedback

addiiton Subtraction div multi

Puppet or chef

DSL Idempotent Agent Report

Agent Master DSL Ruby



- 5. Reduce declarative approach
- 6. Idempotency
- 7. Remote execution
- 8. feedback

Master

Agent mcollective

DSL

Pull

Push

	Chef	Puppet	Ansible	SaltStack	CloudFormation	Terraform
Code	Open source	Open source	Open source	Open source	Closed source	Open source
Cloud	All	All	All	All	AWS only	All
Туре	Config Mgmt	Config Mgmt	Config Mgmt	Config Mgmt	Orchestration	Orchestration
Infrastructure	Mutable	Mutable	Mutable	Mutable	Immutable	Immutable
Language	Procedural	Declarative	Procedural	Declarative	Declarative	Declarative
Architecture	Client/Server	Client/Server	Client-Only	Client/Server	Client-Only	Client-Only

Push Agent less Master less

Infra as a code Idempotent

Dbservers Webservers Loadbalacer

Minimum two server

Ansible host

Target servers

Cloud server Data centers

AWS/GCP/AZURE Vm

Touch config

Puttygen Putty

Ppk

**Ansible Installation:** 

sudo apt-get install software-properties-common && \
sudo apt-add-repository ppa:ansible/ansible && \
sudo apt-get update && \
sudo apt-get install ansible

ansible-host: Ssh-keygen

# Copy the id\_rsa.pub Targethost:

Authorized\_keys

we should be back by 2pm EST

- 1. Virtual box
- 2. Vagrant
- 3. Github url

Vagrant up

Please follow below instructions to setup the virtual machines:

1. Download and install vagrant:

```
windows: https://releases.hashicorp.com/vagrant/2.1.5/vagrant_2.1.5_x86_64.msi mac: https://releases.hashicorp.com/vagrant/2.1.1/vagrant_2.1.1_x86_64.dmg
```

2. Download and install virtual box:

windows:

https://download.virtualbox.org/virtualbox/5.2.18/VirtualBox-5.2.18-124319-Win.exe mac or other:

http://download.virtualbox.org/virtualbox/5.1.22/VirtualBox-5.1.22-115126-OSX.dmg

3. Download this github repo and extract the zip file.

https://github.com/quickfixtech/vagrant-env-setup.git

### 4. Download putty and winscp:

putty :: http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html

winscp: https://winscp.net/eng/docs/guide\_install

**GITBashshell** 

- 5. Restart the machine and press F2 or F10 to go into Bios mode. VT-x/AMD-v virtualization must be enabled in BIOS
- 6. open cmd prompt in windows machine and go into the unzipped multivagrant directory:

#cd dir-of-multi-vagrant #vagrant up gitlab.example.com

7. Enter ip address through putty:

username /password : vagrant/vagrant

Sudo -i

lrwxrwxrwx 1 roo	ot root	7 Oct	4	05:49	ansible-vault -> ansible
lrwxrwxrwx 1 roo	ot root	7 Oct	4	05:49	ansible-pull -> ansible
lrwxrwxrwx 1 roo	ot root	7 Oct	4	05:49	ansible-playbook -> ansible
lrwxrwxrwx 1 roo	ot root	7 Oct	4	05:49	ansible-inventory -> ansible
lrwxrwxrwx 1 roo	ot root	7 Oct	4	05:49	ansible-galaxy -> ansible
lrwxrwxrwx 1 roo	ot root	7 Oct	4	05:49	ansible-doc -> ansible
lrwxrwxrwx 1 roo	ot root	7 Oct	4	05:49	ansible-console -> ansible
lrwxrwxrwx 1 roo	ot root	7 Oct	4	05:49	ansible-config -> ansible
-rwxr-xr-x 1 roo	ot root	11457 Oct	4	05:49	ansible-connection
-rwxr-xr-x 1 roo	ot root	5842 Oct	4	05:49	ansible

Inventory file --hosts

Push

Ansible -i hosts -m ping Ansible -i hosts -m setup

Module

## Facters setup

```
Tree
Nginx
Screen
Tomcat
Yum install tree -y
Apt-get install tree -y
Module
Ansible -i hosts all -m file -a state=directory path=/tmp/avc
Nginx
Apt install nginx
Service start nginx
Yml
Site.yml
       Name: " file"
- hosts: all
 tasks:
       - name: "nginx" install
        apt:
           Name: nginx
           state: installed
       name: "start "nginx" service
        service:
          Name: nginx
```

state: started