Configuration Management:

Replacing manual process with an automated process on a 100’s of production servers.

Shell:

Shell is a programming language.

So we require experts to write shell script.

Maintenance is very difficult.

Consistency missing: Its miss consistent state for 100 of servers output differs, to solve this problem we use configuration management.

Configuration management has consistency.

Configuration Management:

Anybody can understand. Not required to have programming knowledge. Because we dont write single line of code to Configuration Management files.

It has consistency.

Either CM server can communicate with production server or production server can communicate with CM server.

Acent : For each & every 30 minutes ,

1. Communicate with CM server and if any changes happened the change will be pull back to production server & change will be installed on each node
2. Responsible to communicating into production server & if changes happen, change will be pull back to a production server & change will be installed on each and every node.

Ansible, Salt ==> PUSH Model

Chef, Puppet ==> PULL Model

By using Configuration model we can achieve:

1. Provisioning
2. Chain management
3. Orchestration
4. Configurations

Provisioning provides suitable environment for deploying application on production environment.

By provisioning we can do:

1. Install software's
2. Create files and folders
3. Change configuration files and folders
4. Create users and groups
5. Deploying applications ...etc.

PULL MODEL:

3 Components:

1. Workstation: laptop
2. Chef Server: hosted or installed chef server
3. Chef Node: Virtual Machine, Physical server, Cloud (AWS, AZURE, GOOGLE)