Ansible Playbooks

Ansible Modules

» Scripts that accomplish a task

» Mostly in Python, some in PowerShell if it is to manage Windows machine

» Self-made module can be in any language

» Lots of Network Modules

Ansible Run Methods

» Use ssh to copy the Python module to remote host, run, clean up

» Run locally and use Paramiko to ssh to host or call remote host API (This is the way most network modules are run)

Ansible Playbooks

» Modules are your tools, Playbook is the instruction manual for which tool to use, when to use them, and in what order.

» No need to learn all the features at once, start small and pick up more features as you need them.

Playbook Components

» Playbook -> Plays -> Tasks (modules)

```
---
- hosts: webservers
  remote_user: root

  tasks:
  - name: ensure apache is at the latest version
    yum: name=httpd state=latest
  - name: write the apache config file
    template: src=/srv/httpd.j2 dest=/etc/httpd.conf

- hosts: databases
  remote_user: root

  tasks:
  - name: ensure postgresql is at the latest version
    yum: name=postgresql state=latest
  - name: ensure that postgresql is started
    service: name=postgresql state=running
```

Playbook Language YAML

» Starts with 3x "---" to specify beginning

» Space matters as in Python

» Each play contains hosts and tasks, maybe more (such as variables)

Resources

» Ansible Playbook Introduction
http://docs.ansible.com/ansible/
playbooks_intro.html

» YAML Syntax:
http://docs.ansible.com/ansible/
YAMLSyntax.html

Resources

» Ansible Modules:
http://docs.ansible.com/ansible/modules.html

Lab