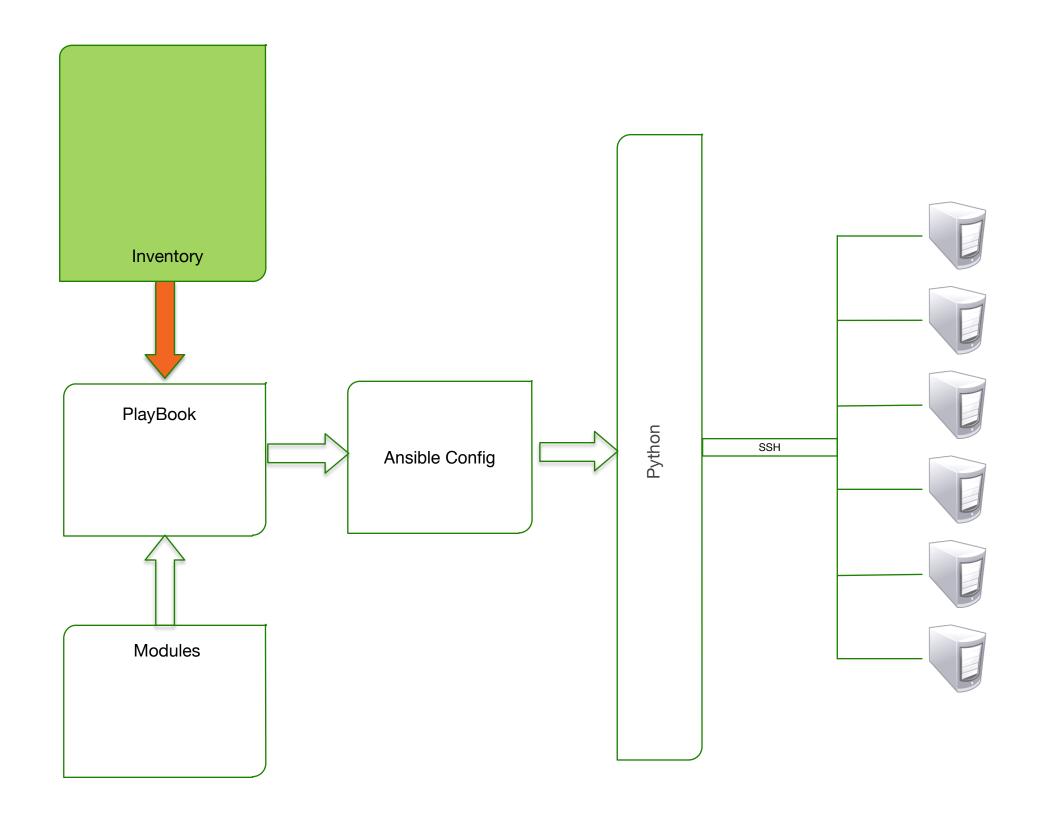
Ansible Inventory and Configuration



Aaron Paxson



Inventory Features

Behavioral Parameters

Groups

Groups of Groups

Assign Variables

Scaling out using multiple files

Static/Dynamic

[db]

db1.company.com

db2.company.com

```
[db]
db1.company.com ansible_ssh_user=aaron ansible_ssh_pass=123
db2.company.com
```

```
[db]
db1.company.com ansible ssh user=aaron ansible ssh pass=123
db2.company.com ansible python interpreter=/usr/bin/python
```

```
[db]
db1.company.com ansible ssh user=aaron ansible ssh pass=123
db2.company.com ansible python interpreter=/usr/bin/python
[datacenter-west:children]
db
```

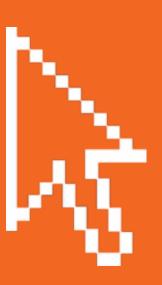
```
[db]
db1.company.com ansible ssh user=aaron ansible ssh pass=123
db2.company.com ansible python interpreter=/usr/bin/python
[datacenter-west]
db
```

```
[db]
db1.company.com ansible ssh user=aaron ansible ssh pass=123
db2.company.com ansible python interpreter=/usr/bin/python
[datacenter-west:children]
db
```

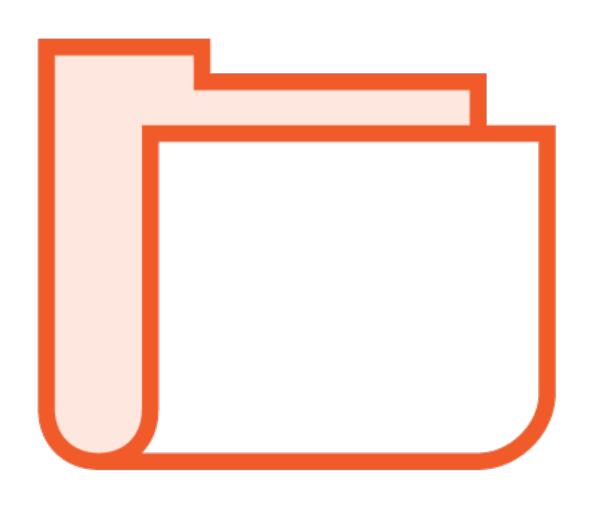
```
[db]
db1.company.com ansible ssh user=aaron ansible ssh pass=123
db2.company.com ansible python interpreter=/usr/bin/python
[datacenter-west:children]
db
[datacenter-west:vars]
ansible ssh user=ansible user
ansible ssh pass=#45e!@Gh
ntp-server=5.6.7.8
```

Creating our Inventory File

- Add Behavioral Parameters
- Create host-based variables
- Create a Group
- Create group-based variables



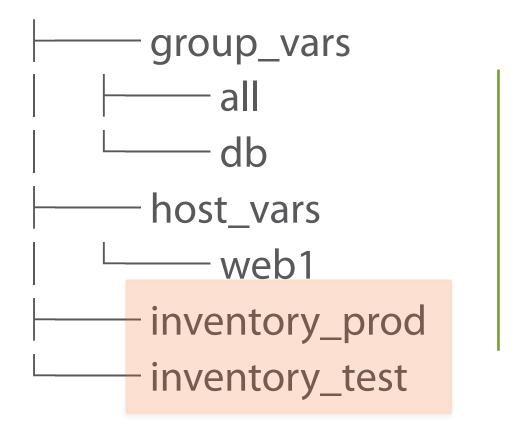
Scaling-out Inventory Files



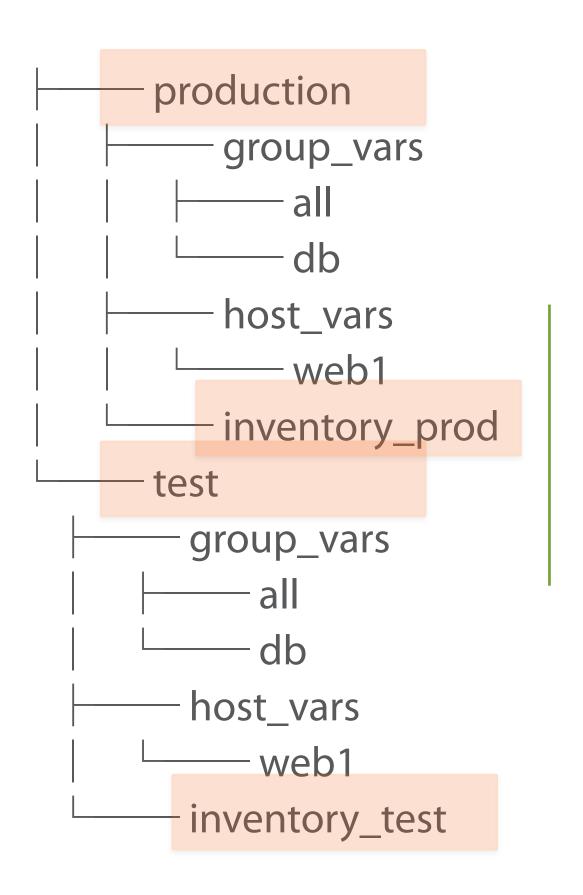
Using Directories

Can use to break-out long-running inventory files.

Very useful when dealing with large environments.



Basic Directory Structure

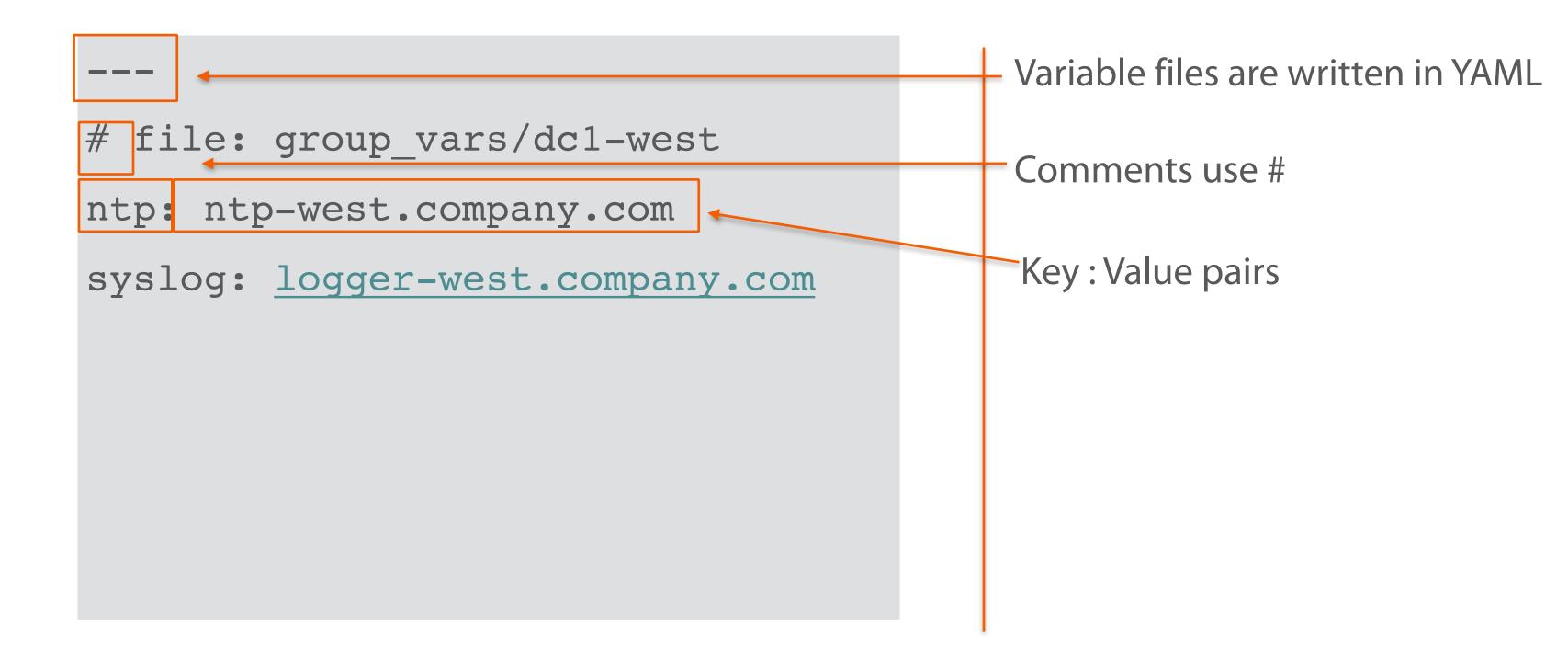


Multi-Environment Directory Structure

Order-of-Operations (Precedence)

- 1). (Group_Vars) All
- 2). (Group_Vars) GroupName
- 3). (Host_Vars) HostName

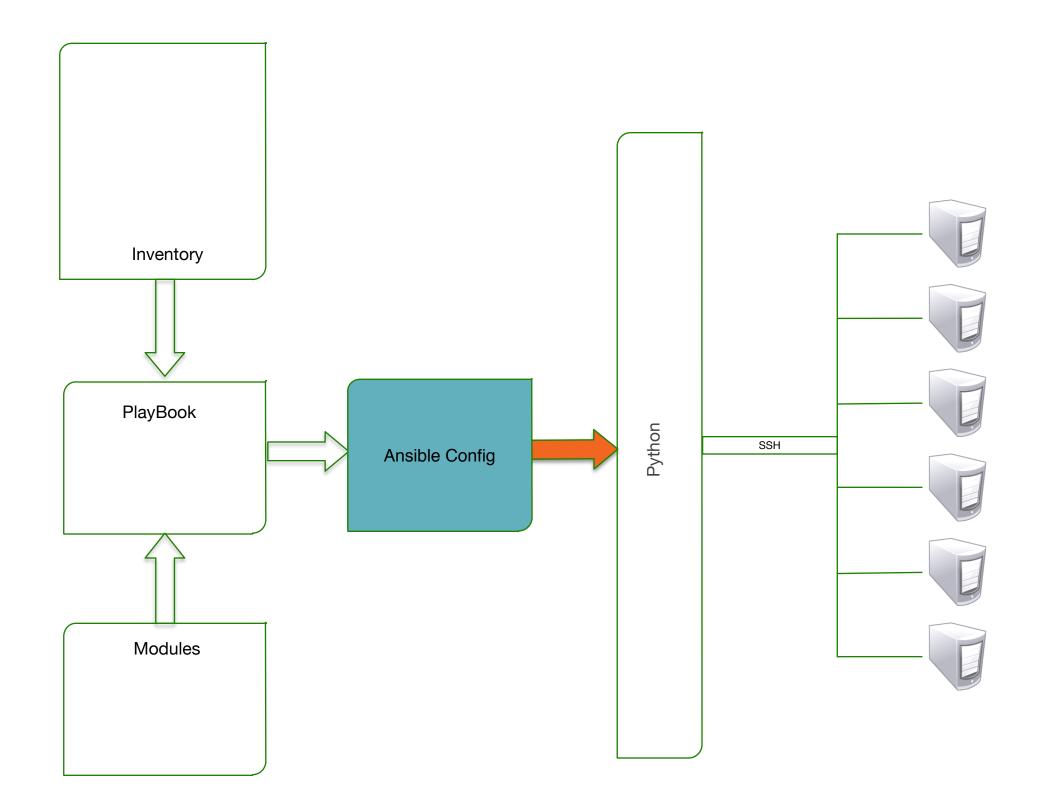
Variable File Example



Scaling Variable Files

- Create Group Variables in separate file
- Show Order-of-Precedence





Configuration Settings Order-of-Operations

```
$ANSIBLE_CONFIG
     ./ansible.cfg
     ~/.ansible.cfg
/etc/ansible/ansible.cfg
```

Configuration files are not merged. First one wins!

Environment Variable Overrides

\$ANSIBLE_<configsetting>
Override specific settings by prefixing ANSIBLE_ to the name

export ANSIBLE_FORKS=10

Great way to override specific settings on-the fly!

[defaults] forks

Default set to 5

Total number of parallel operations Ansible executes

Production Recommendation: 20

Start at 20, and go up or down depending on performance

[defaults] host_key_checking

Default set to True

For Production environments, do not change

Development Environment: set to False

Due to the dynamic environment of Dev, keeps it easy

[defaults]
log_path

Default set to Null

Write information on Ansible executions

Set path to log file

Make sure all users of Ansible has permissions to write

Editing Configuration

- Define settings in configuration file
- Override setting in environment variable

