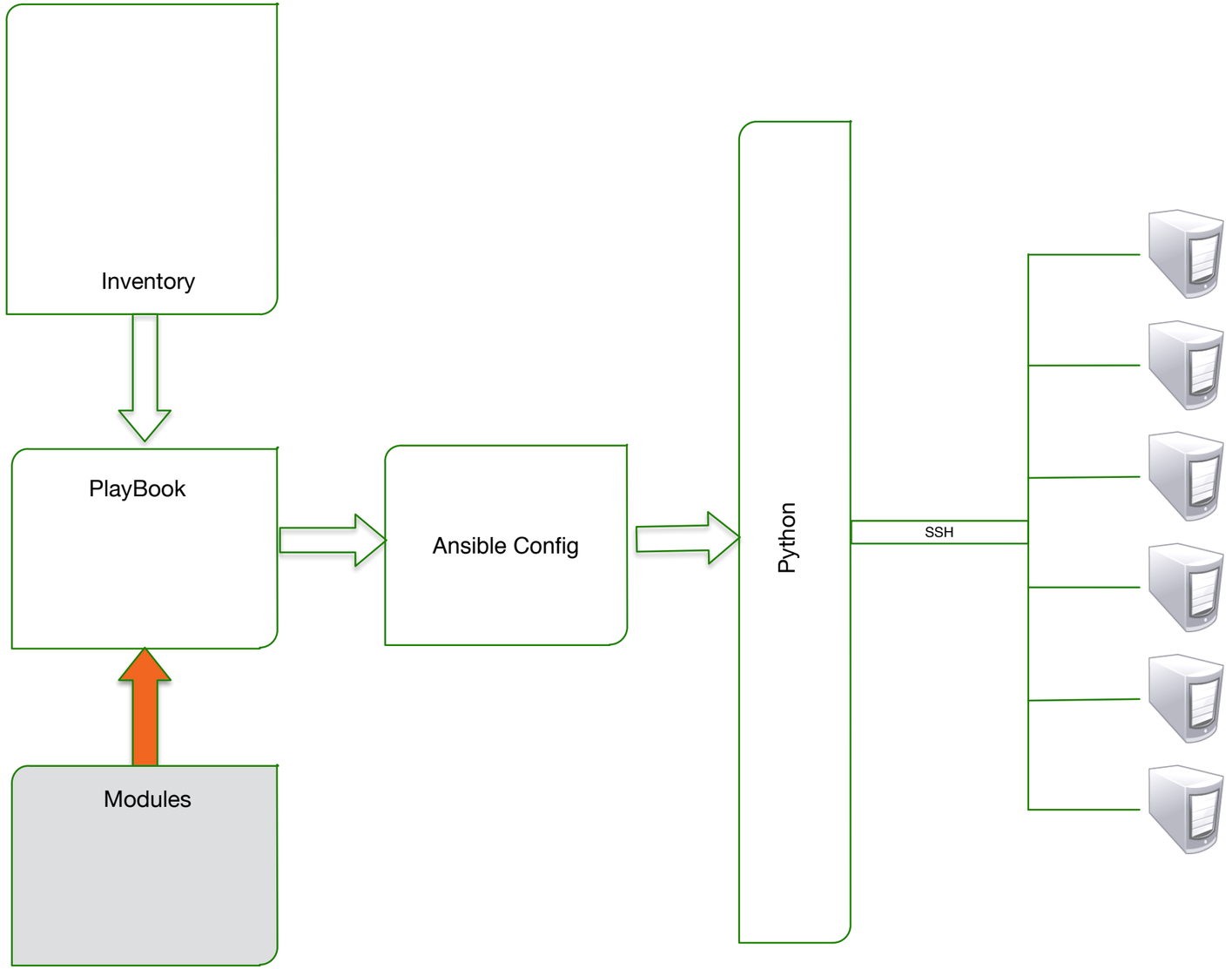
Ansible Modules

Aaron Paxson

http://myteneo.net | @Neelixx | +Aaron Paxson


Inventory
PlayBook
Modules
Ansible Config
Python
SSH

3 Types of Modules

Core

Extras

Deprecated

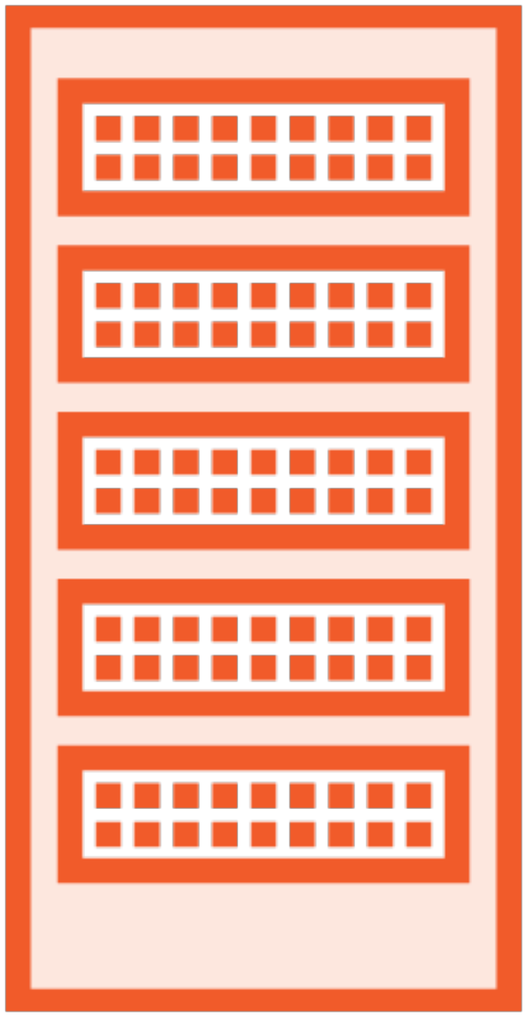
Module Docs

```
$ ansible-doc -l
```

```
$ ansible-doc -s
<name>
```

```
$ ansible-doc <name>
```

Module Categories



- Manage Servers
- Deploy Configurations

Module Categories

- Configure network equipment

Module Categories

- Maintain virtual servers

Module Categories

- Manage databases and tables

Module Categories

- Deploy load-balancer configurations

Copy Module

- Copies a file from local box to remote system
- Has “backup” capability
- Can do validation remotely

Fetch Module

- Pulls a file from remote host to local system
- Can use md5 checksums to validate

Apt Module

- Manages installed applications on Debian-based systems
- Can install, update, or delete packages
- Can update entire system

Yum Module

- Manages installed applications on Redhat-based systems
- Can install, update, or delete packages
- Can update entire system

Service Module

- Can stop, start, or restart services
- Can enable services to start on boot

Demo: Using Modules to Install/Start

- Browse module documentation
- Install Web Server (Yum module)
- Start Web Server (Service module)
- Install DB Server (Yum module)
- Start DB Server (Service module)
- Stop Firewalls (Service module)

Host/Group Target Patterns

OR
(group1:group2)

NOT
(!group2)

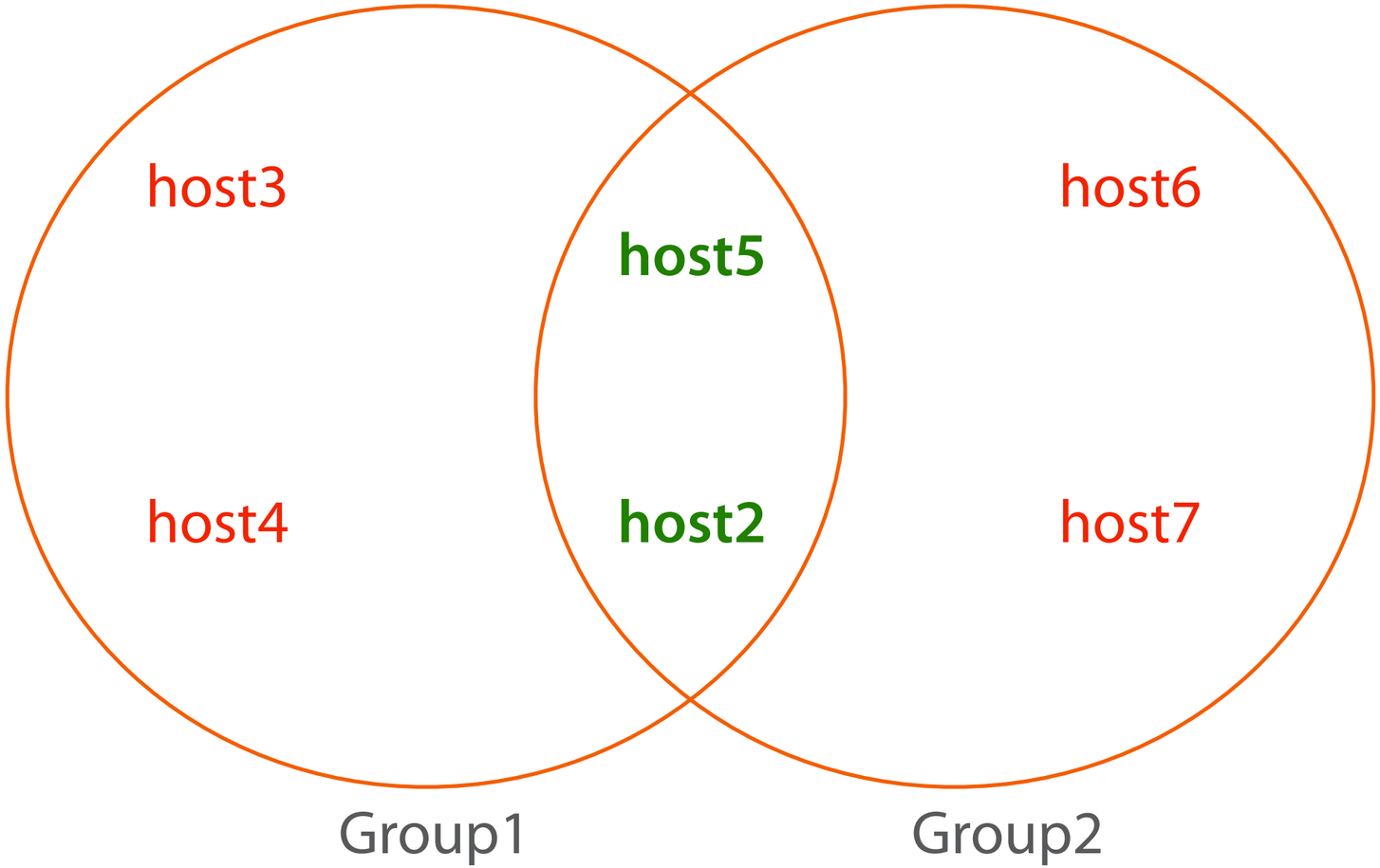
Wildcard
(web*.ex.com)

Regex
(~web[0-9]+)

Complex Patterns

AND

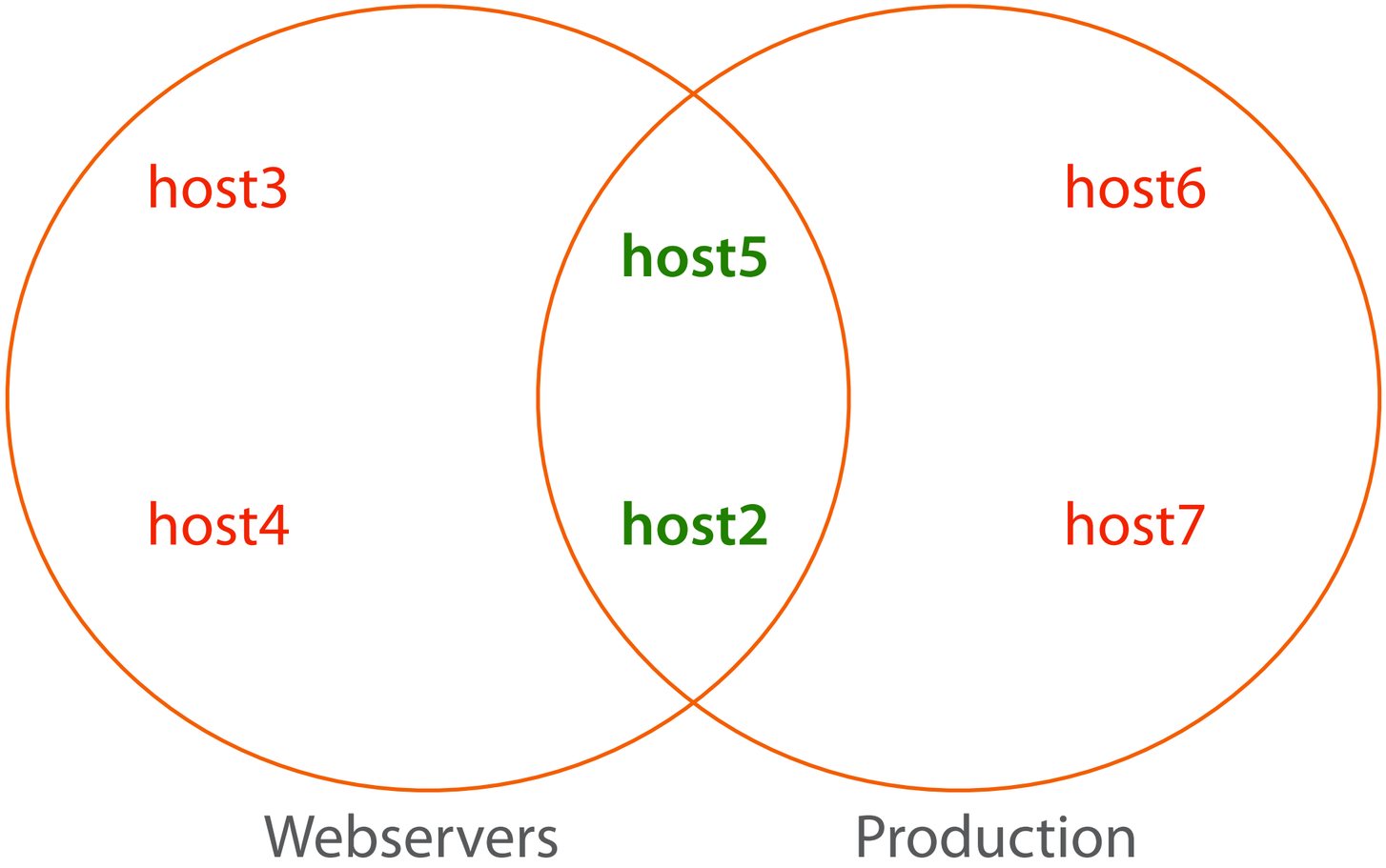
(group1:&group2)



Complex Patterns

AND

(Webservers:&Production)



Complex Patterns

webservers:&prod:!python3

Hosts defined in Webservers AND Prod but NOT in Python3

Demo: Using Setup Module

- Gather facts on remote systems
- Used in Playbooks