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OF ARIZONA

# Managing Changes and Configuration with Ansible

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# Agenda



- Why use a tool?
  - Ansible Intro
  - Ansible Structure
  - ISO & Ansible
  - Lab

# Why Use a Tool?

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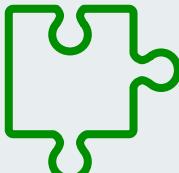
 **Repeatable**

 **Verifiable**

 **Standardized**

 **Mature Process**

 **Change Control**

 **Infrastructure As Code**



# Ansible Intro

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- Free and open-source
- It's really just coding
- Expandable with modules
- Ansible Galaxy
- Describe the end-state
- Idempotency
- No agent

# Ansible Task Structure

- YAML formatting
  - Tasks: discrete configuration settings
  - Playbooks: collection of tasks

```
- name: Install firewalld
  yum:
    name: firewalld
    state: latest

- name: Create Folder
  file:
    path: /opt/splunk/etc/
    owner: splunk
    group: splunk
    mode: 0744
    state: directory
```

# Ansible Playbook

---

```
>>> - name: Base Configuration  
hosts: DBServers  
tasks:  
  
    - name: Install firewalld  
      yum:  
        name: firewalld  
        state: latest
```

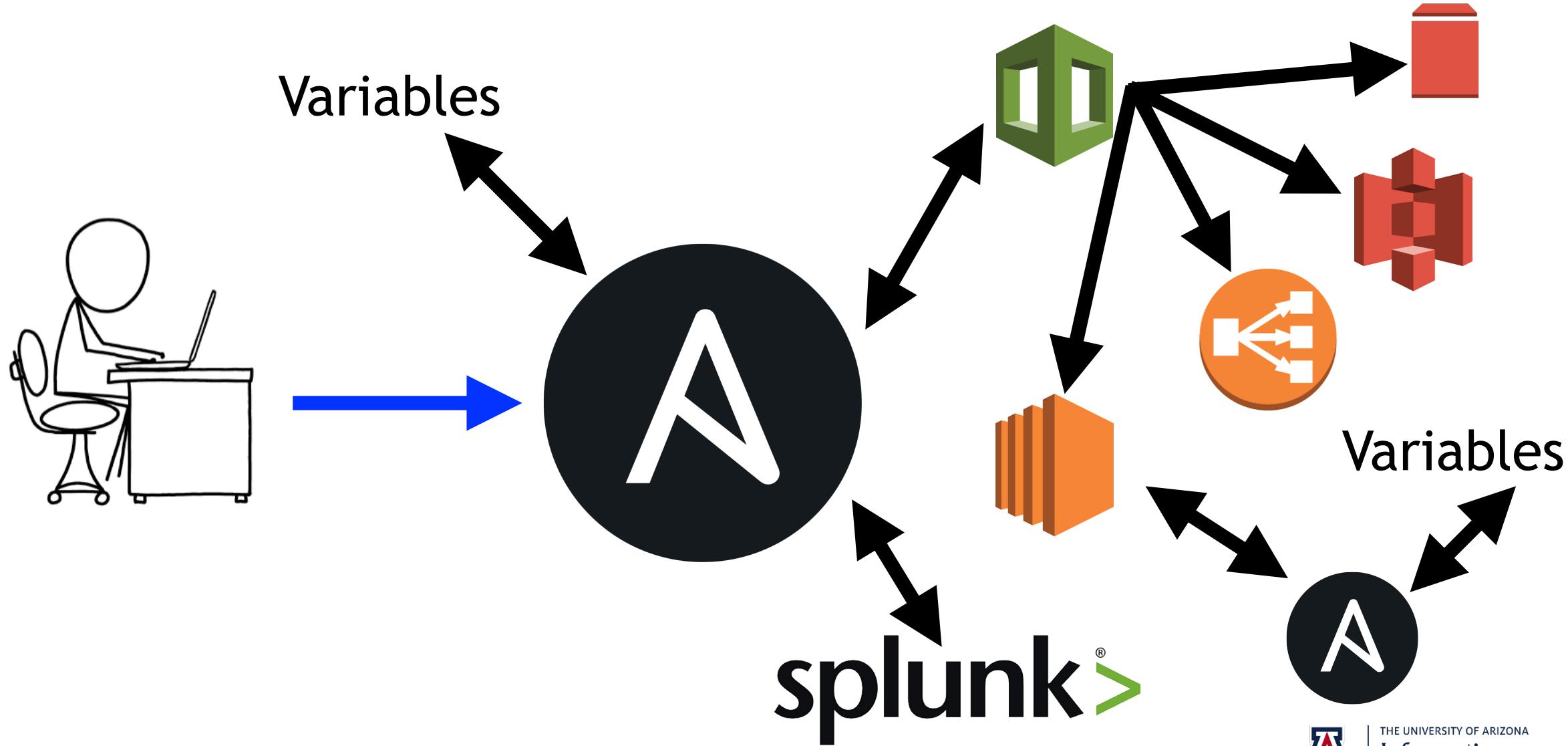
# Ansible Command Line Syntax

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```
ansible-playbook -i inventory.yml base.yml --ask-pass
```

```
ansible web1 -i inventory.yml -a "hostname"--ask-pass
```

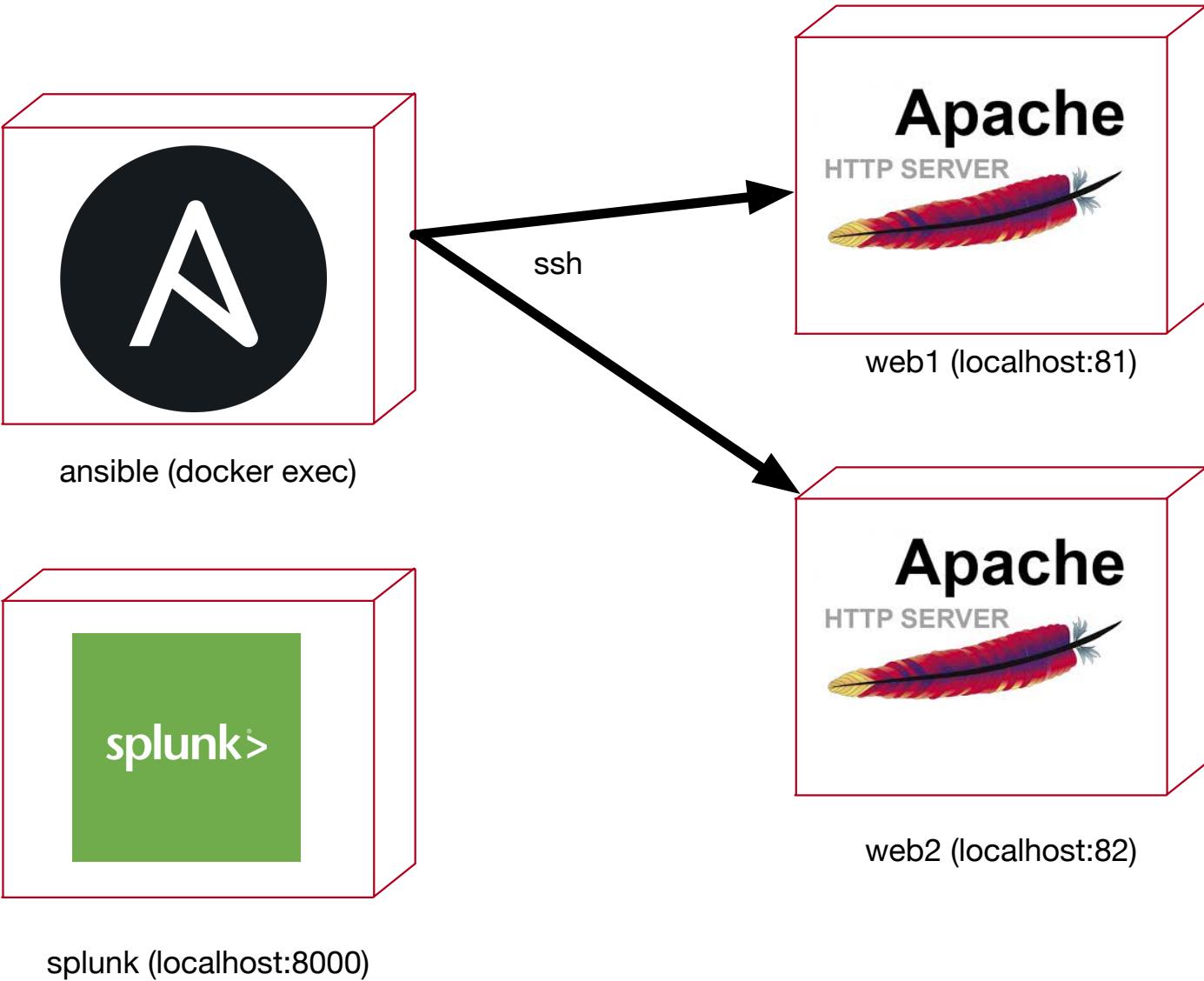
# ISO & Ansible





# SPRINGFIELD







**[GitHub.com/pdreeves/2019-interactive](https://github.com/pdreeves/2019-interactive)**

# Next Steps

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- ▶▶▶
- Roles
- Ansible Vault
- Handlers
- Variables
- Tagging
- Find a problem to solve
- Look at example code



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# Questions?