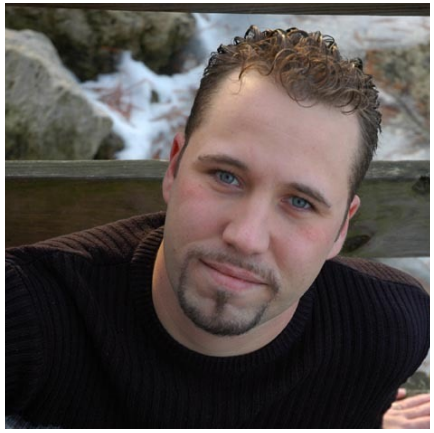
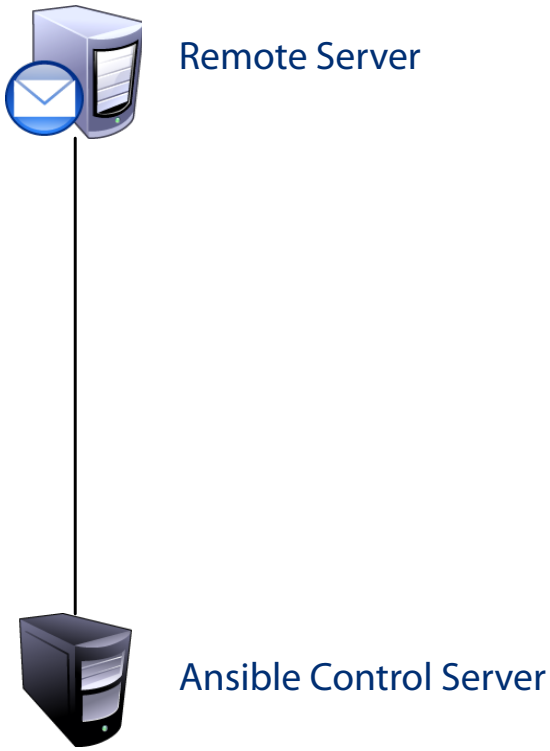
Architecture and Process Flow



Aaron Paxson

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


Remote Server
Ansible Control Server

Ansible Requirements (Control Server)

Python 2.6+

Must be *NIX (Linux/Unix/Mac)

Windows not supported

Ansible Requirements (Remote Server)

*NIX:

Python 2.4 (simplejson)

Python 2.5+

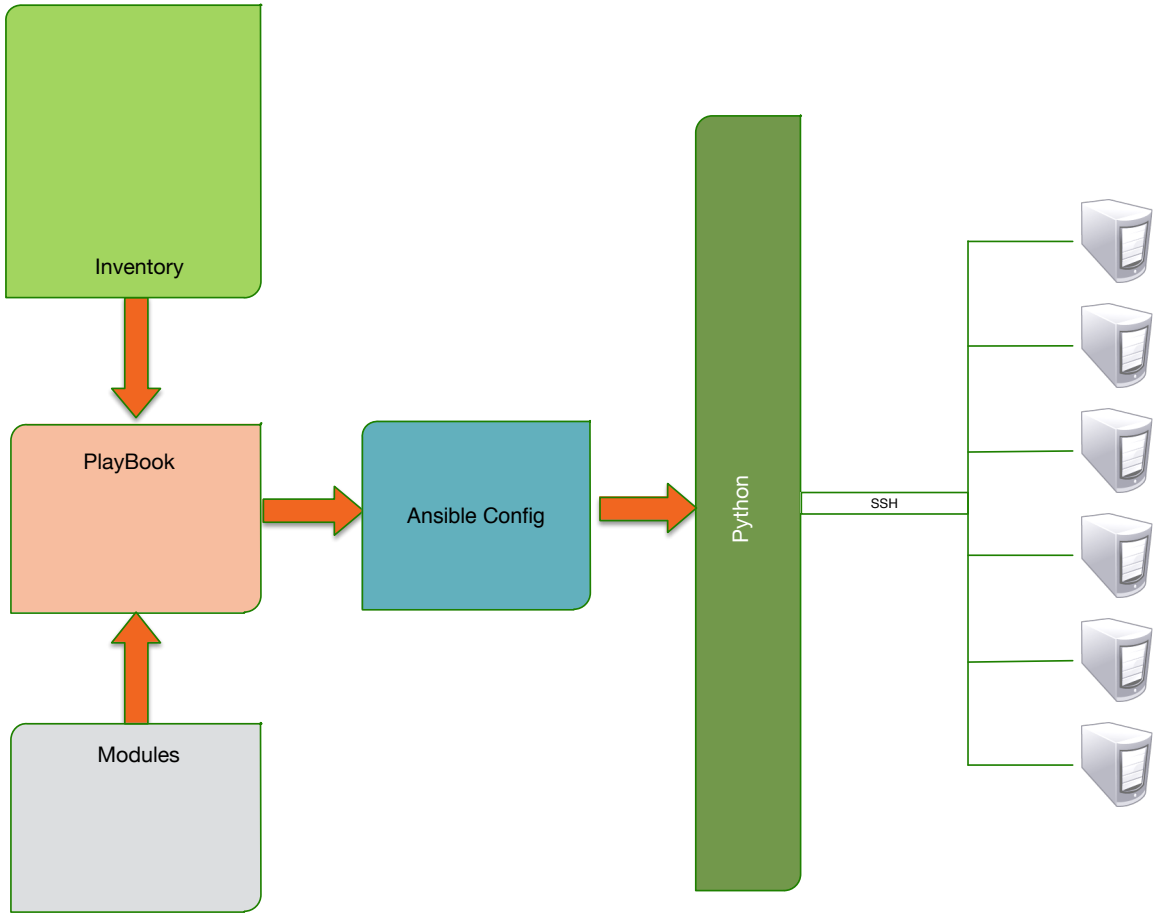
SSH

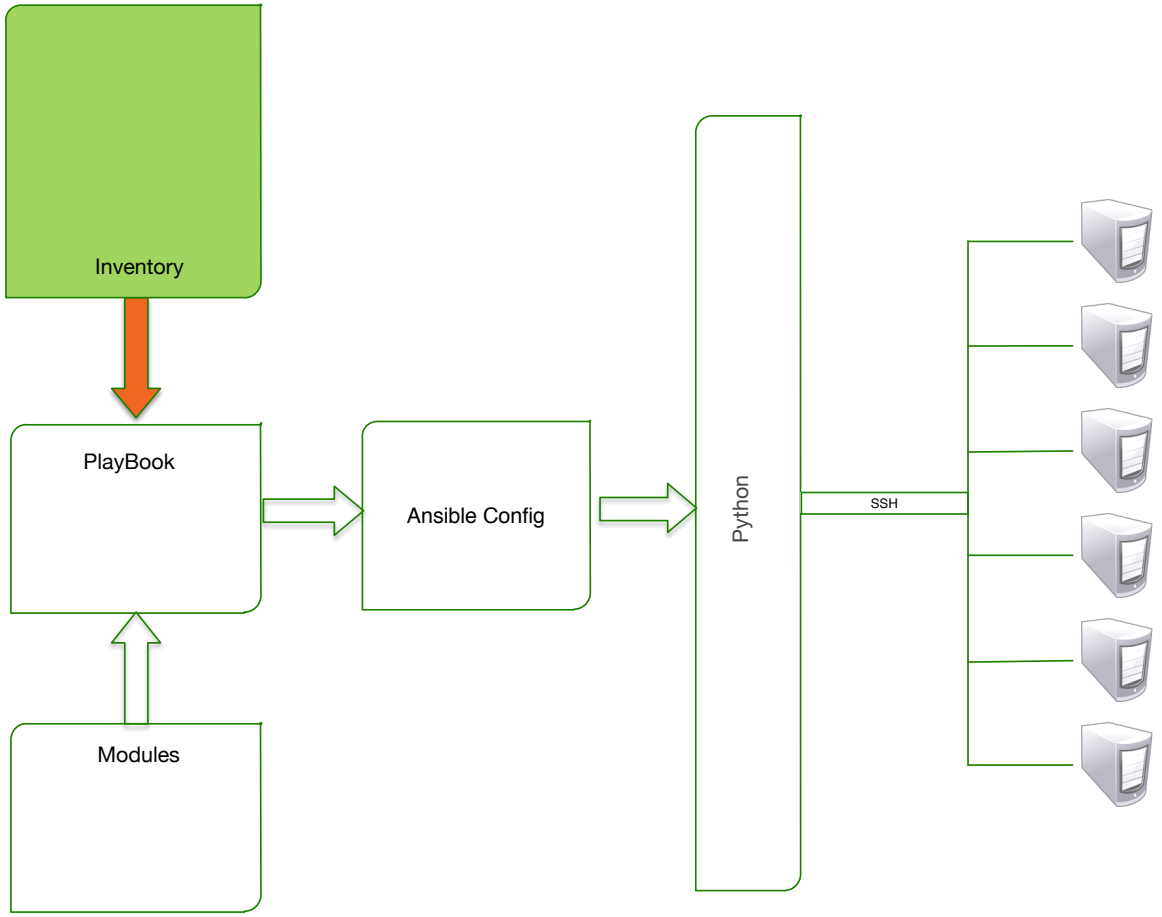
Windows:

Remote Powershell Enabled

Python 3.x is not an upgrade to Python 2.x

Python 3.x is not supported


Inventory
PlayBook
Modules
Ansible Config
Python
SSH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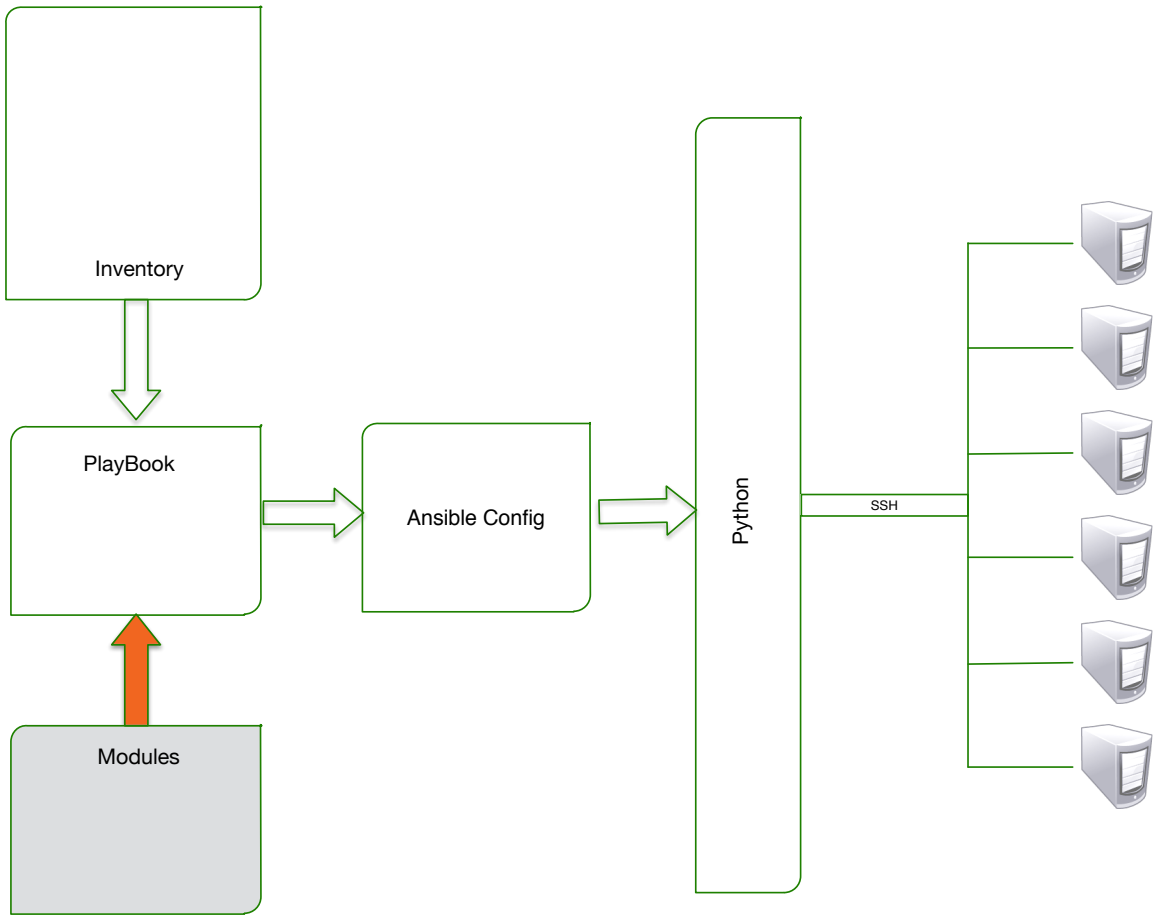
Inventory
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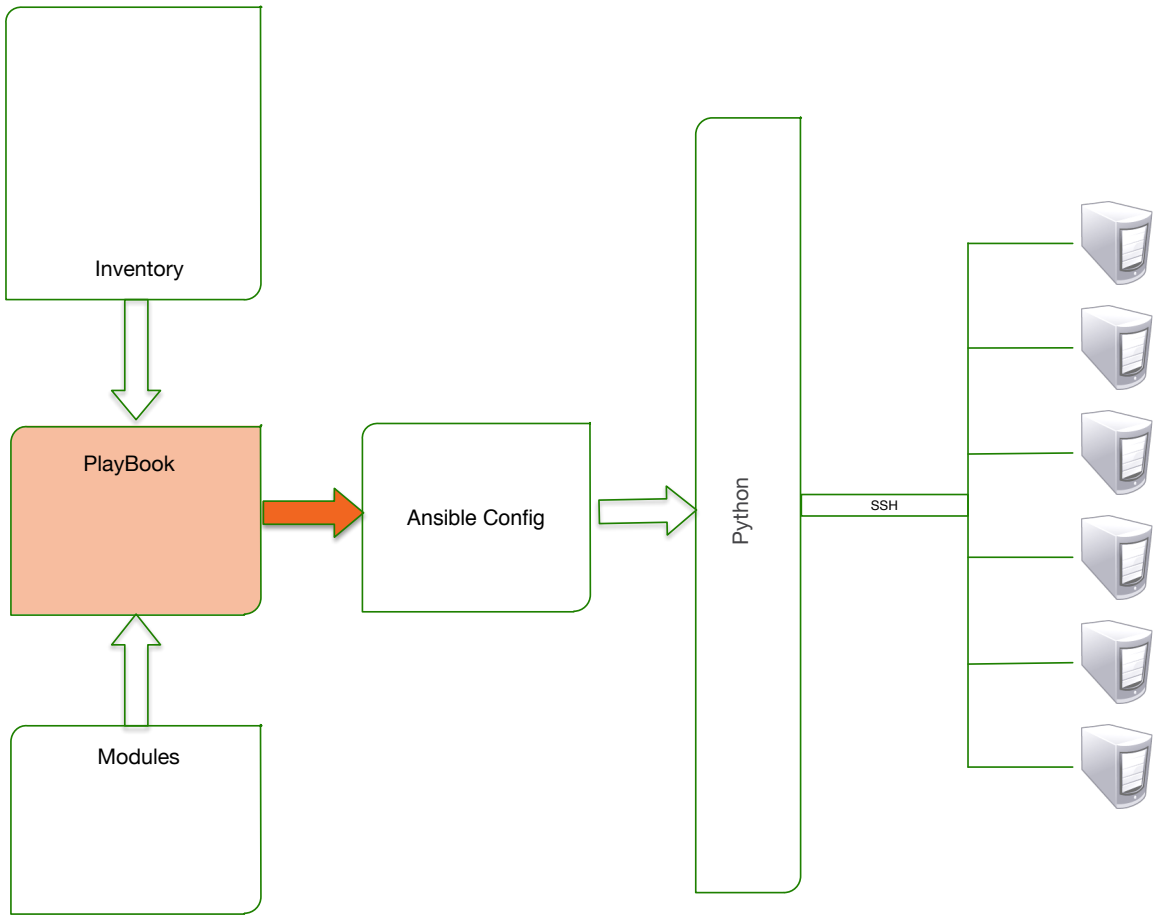
Module

A programmed unit of work to be done.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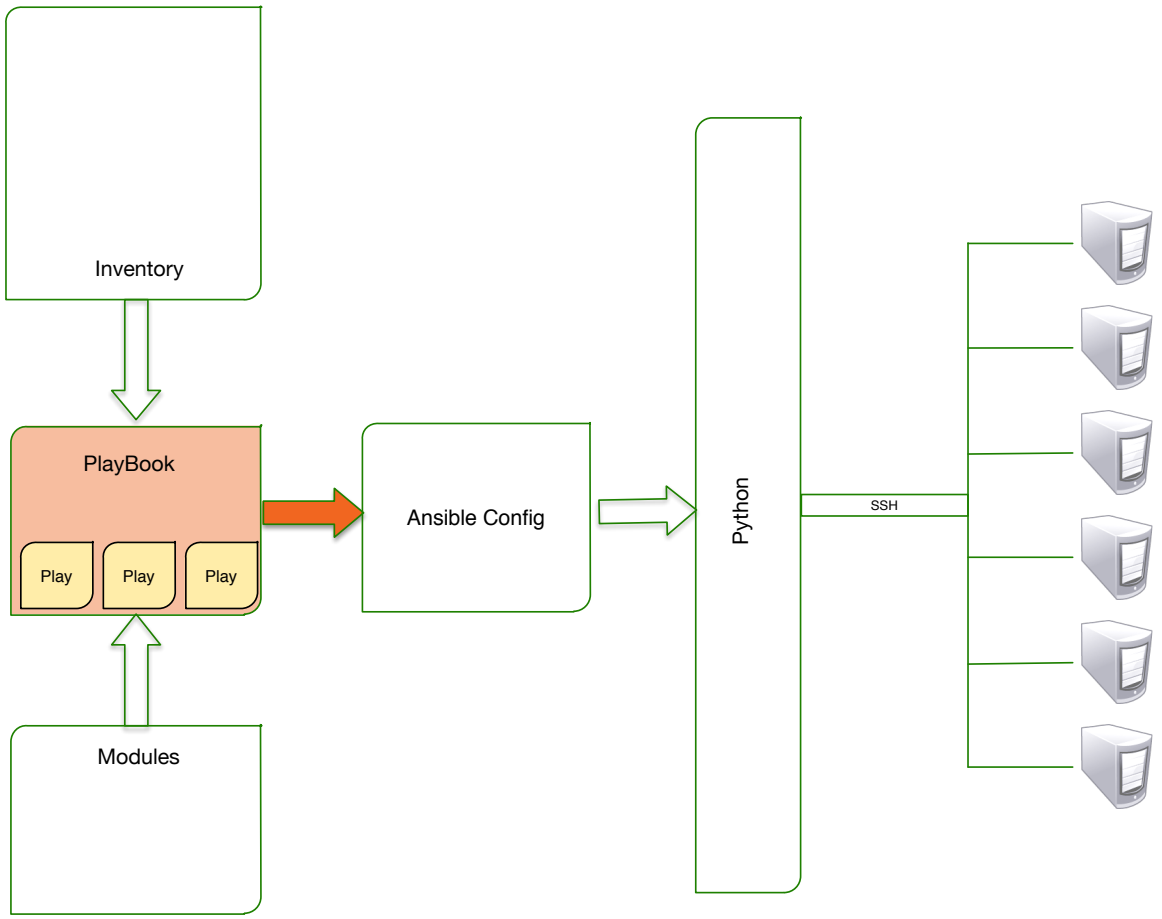
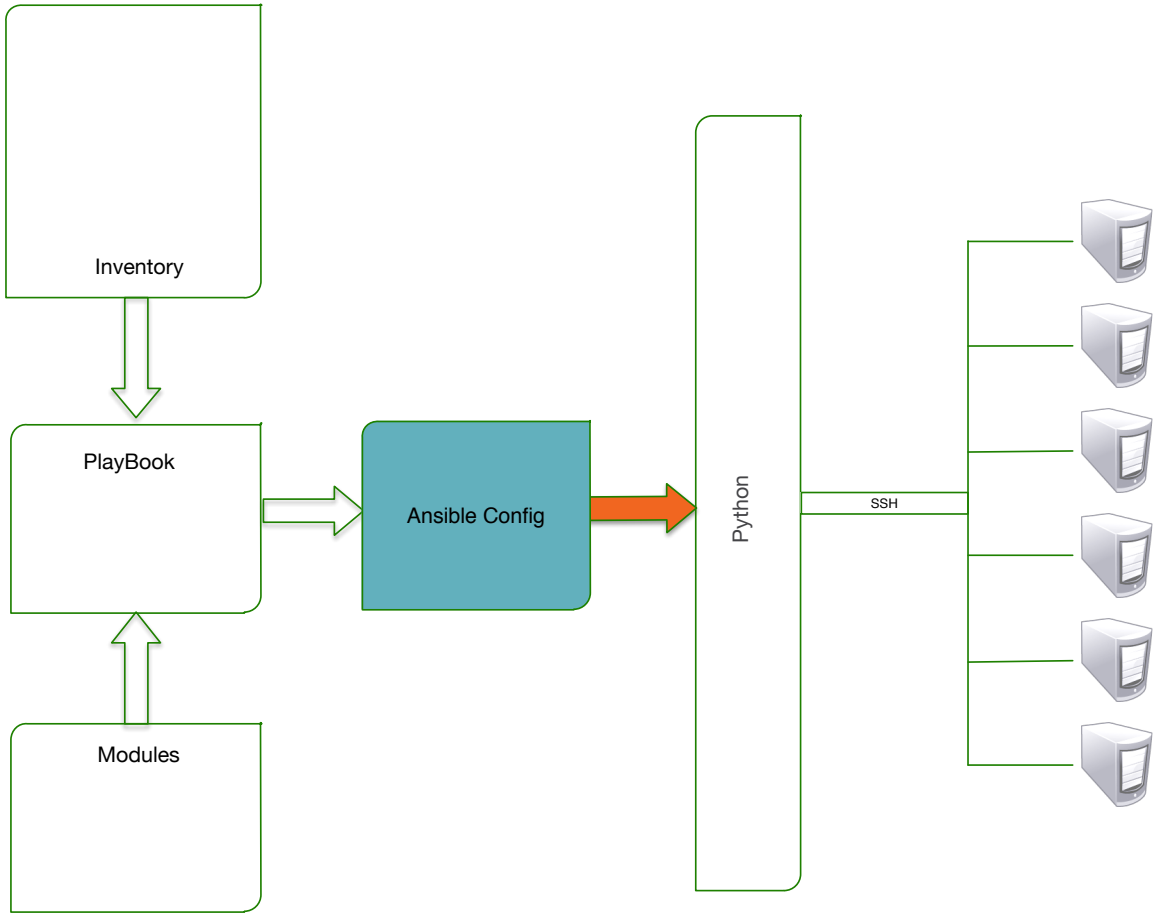

Inventory
PlayBook
Play
Play
Play
Modules
Ansible Config
Python
SSH

Play

A single task from a module, executed on a host or set of hosts

Playbook

A set of plays built in specific order sequence to produce an expected outcome or outcomes.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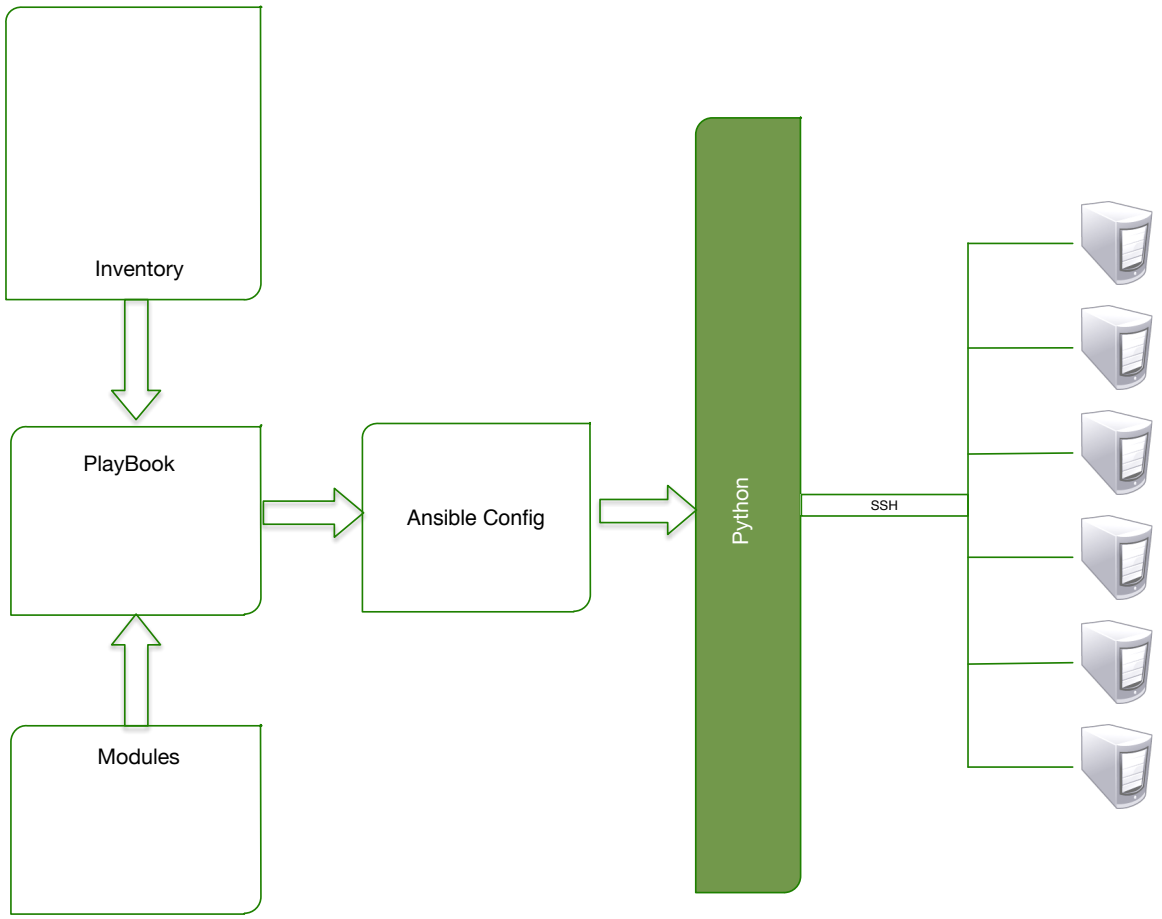
Inventory
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Variables

Host Variables

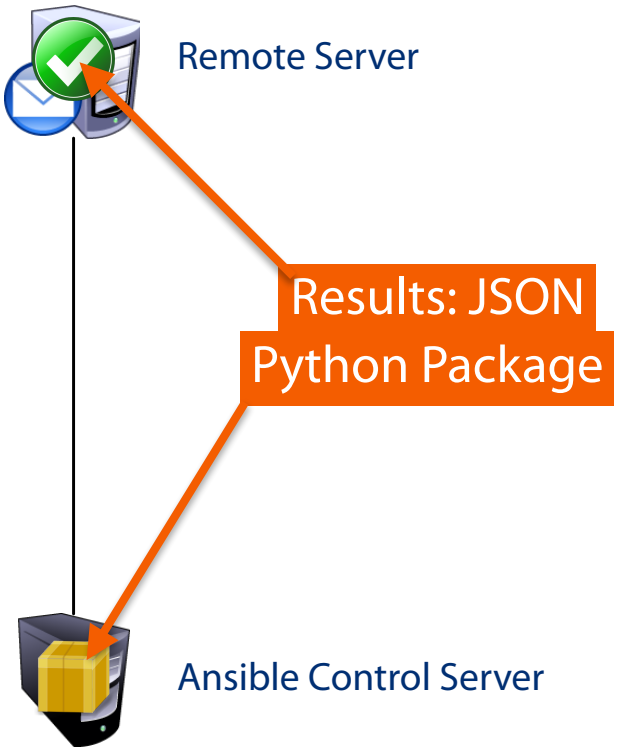
Use variables defined in Inventory per host or group

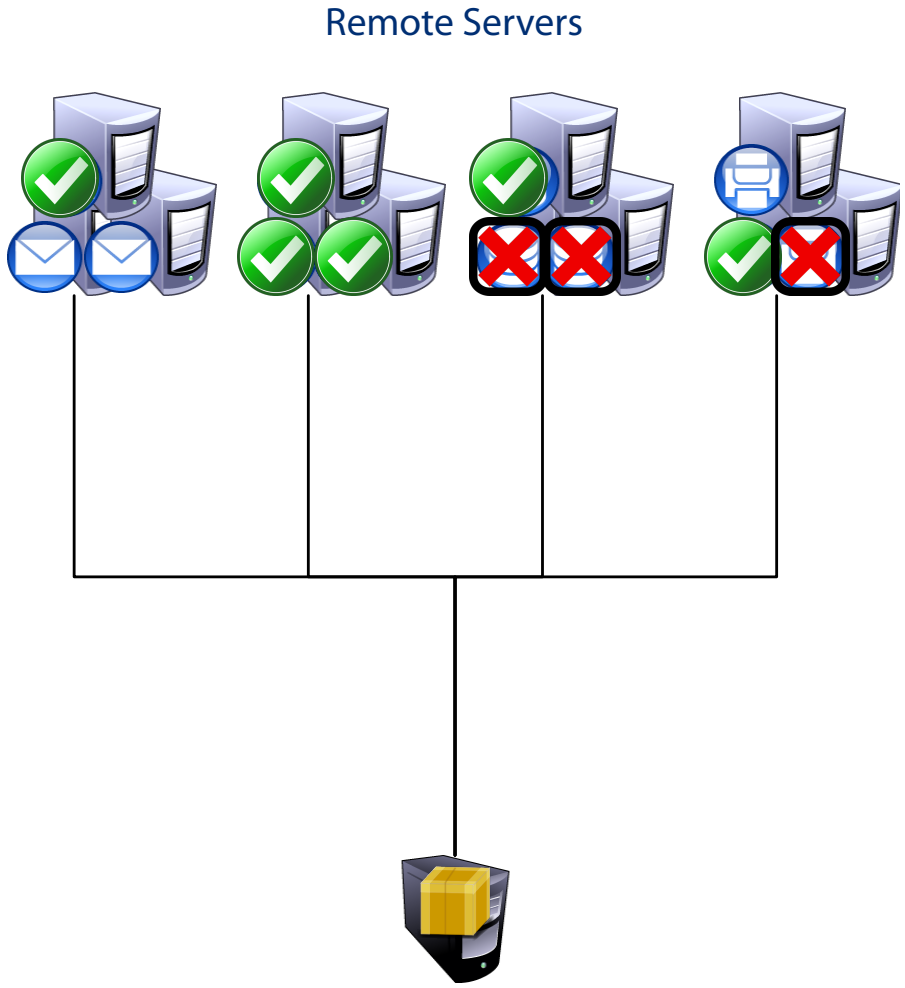
Facts

Use data gathered from the remote managed host

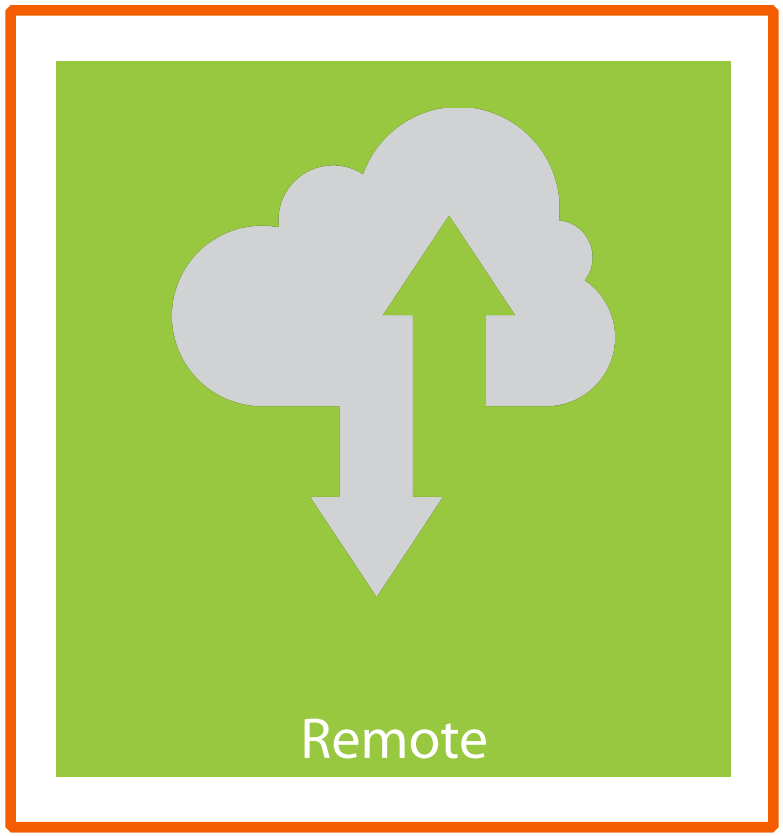
Dynamic Variables

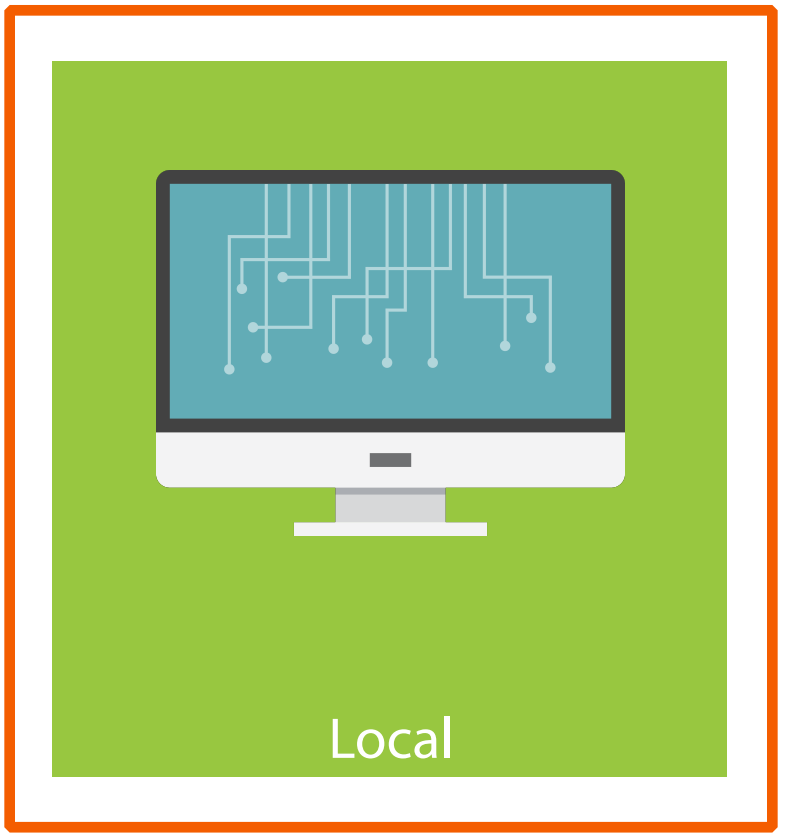
Use data gathered by tasks or created at runtime

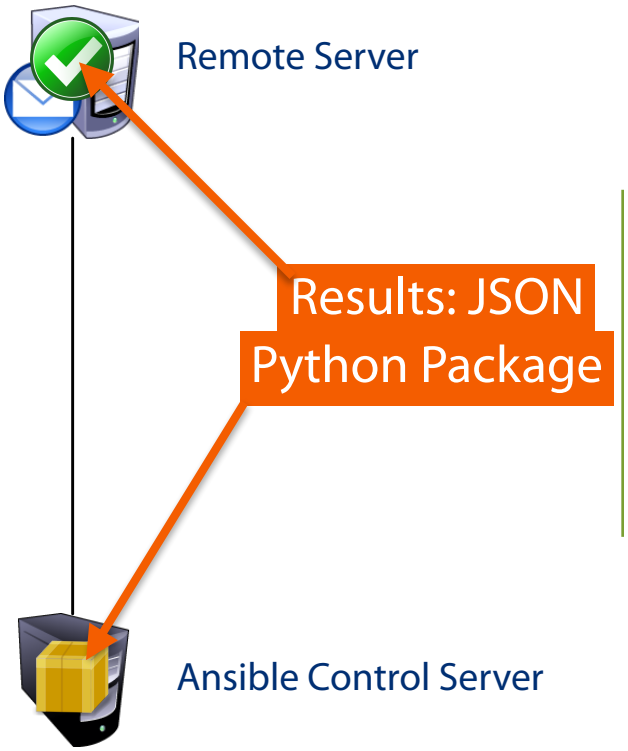

Remote Server
Results: JSON
Python Package
Ansible Control Server


Remote Servers
Ansible Control Server

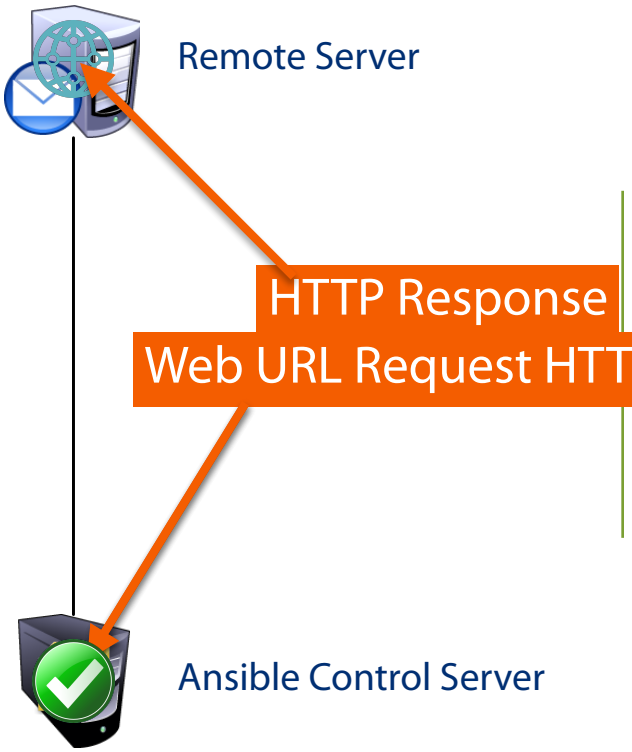
Execution Types







Packaged Tasks Executed on Remote-End



Packaged Tasks Executed on Ansible Server

Mostly used for webservice/API calls

Ansible Architecture

Inventory maps hosts

Configuration sets Ansible parameters

Modules define actions

Ansible Architecture

Playbooks to coordinate multiple tasks

Python to build the execution

SSH to deliver the tasks

Execution Types

Remote

Remote execution of plays

Local

When remote box is not executing plays