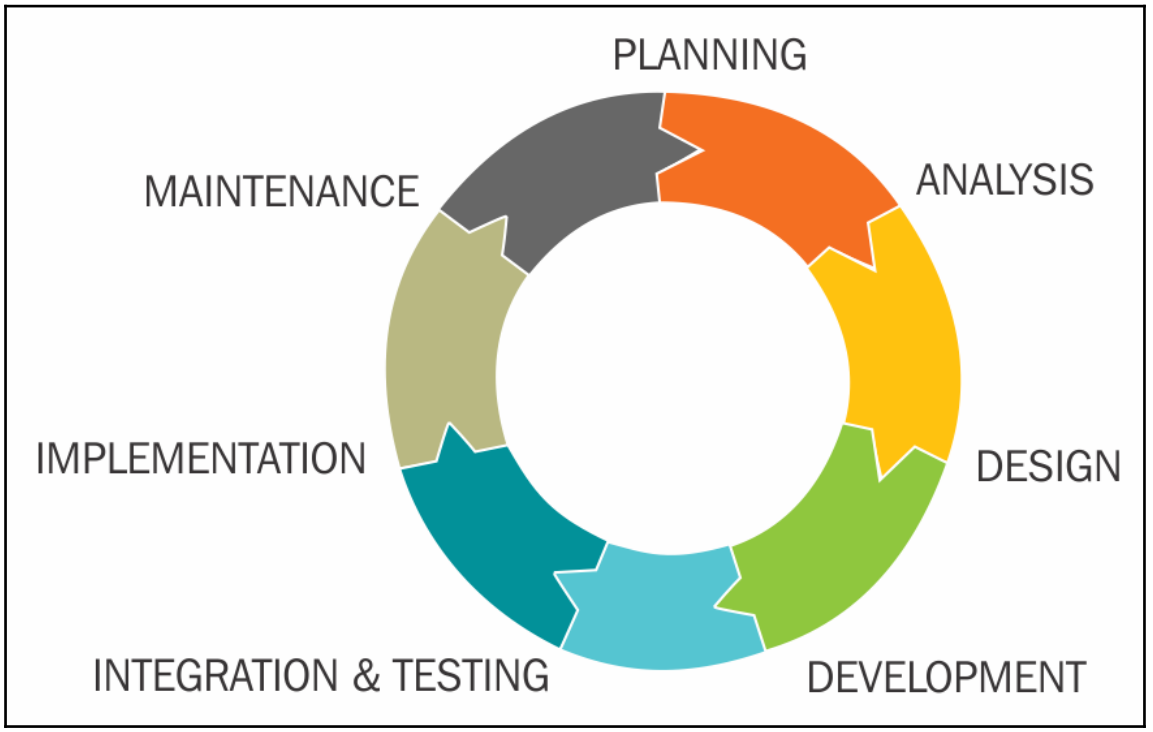
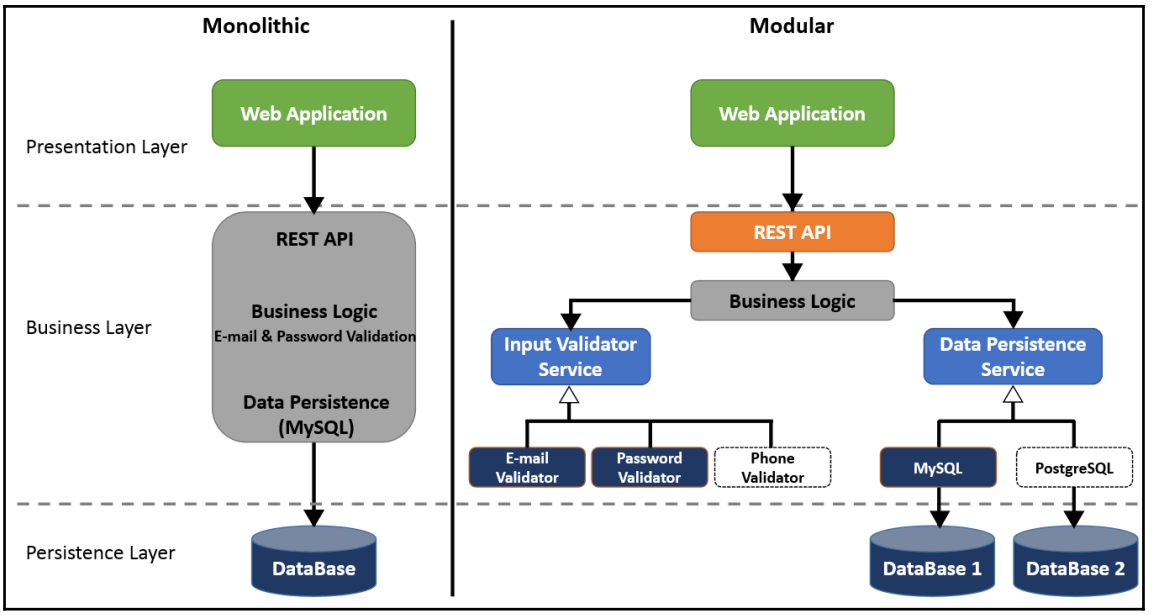
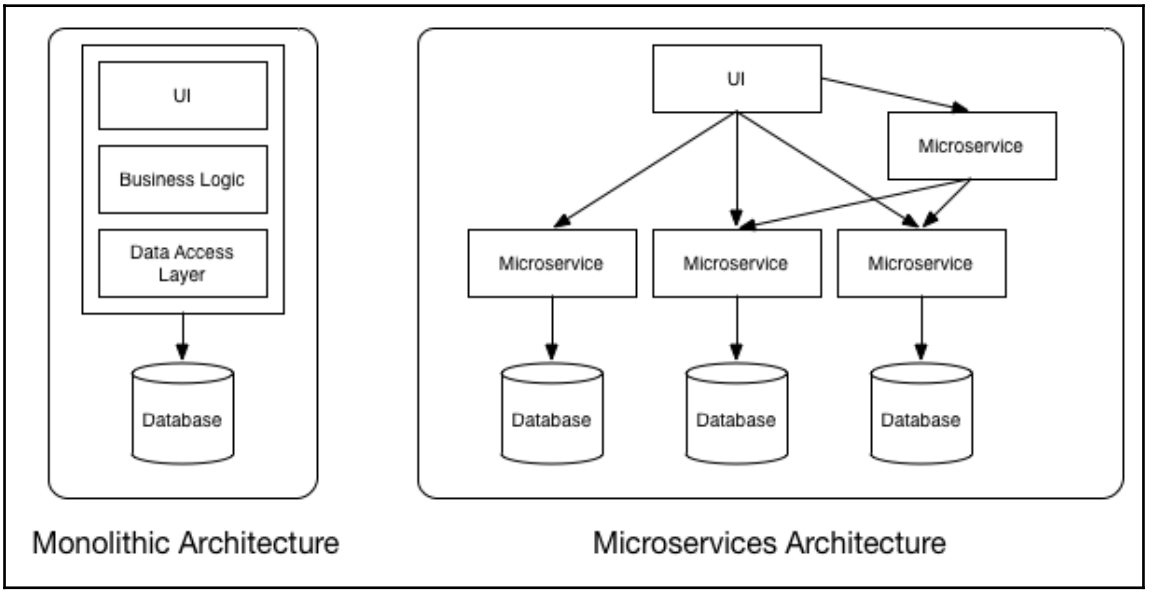
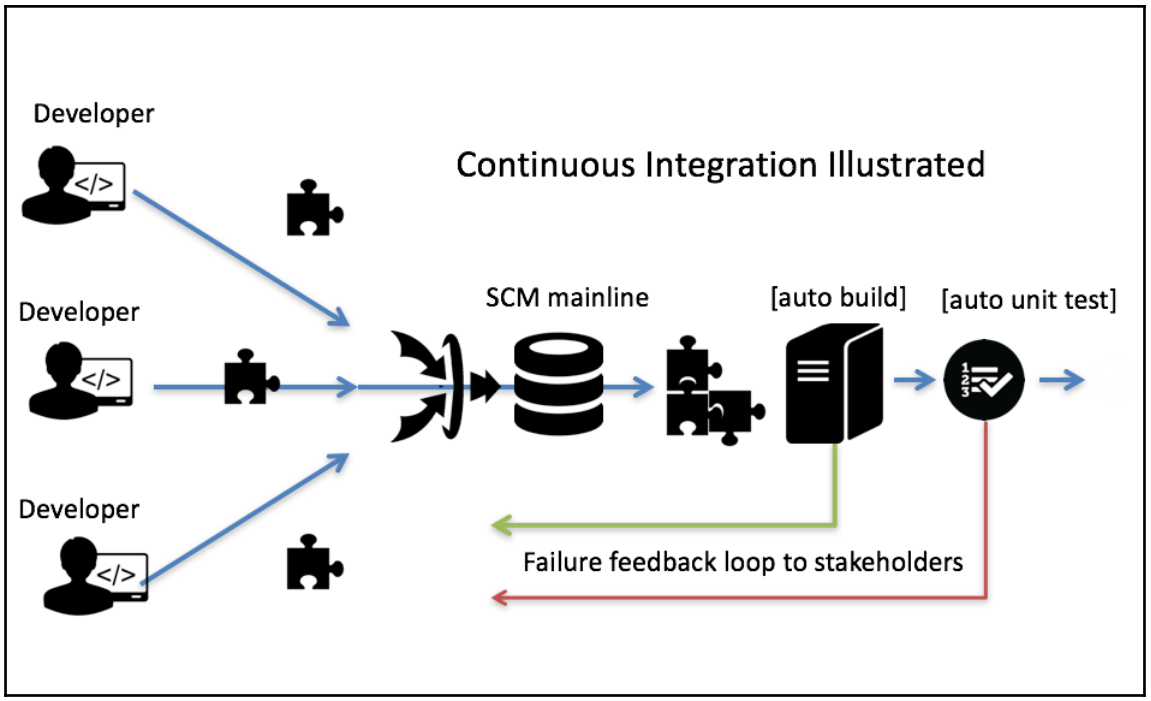
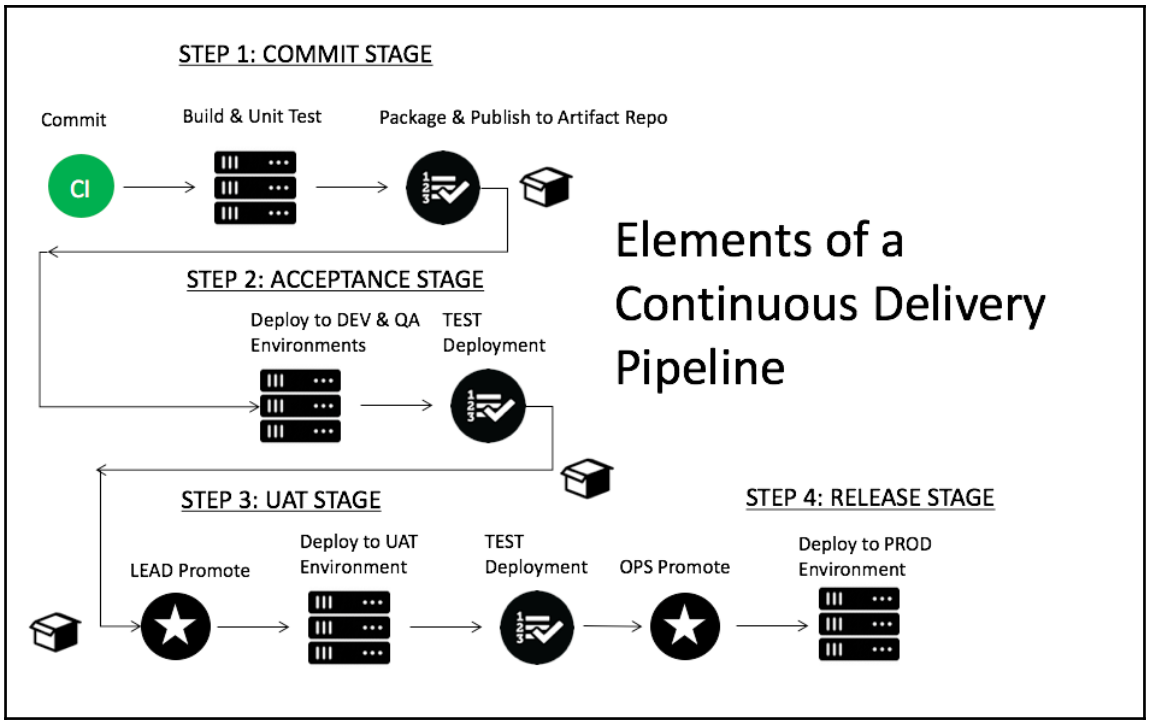
Chapter 1: DevOps Fundamentals

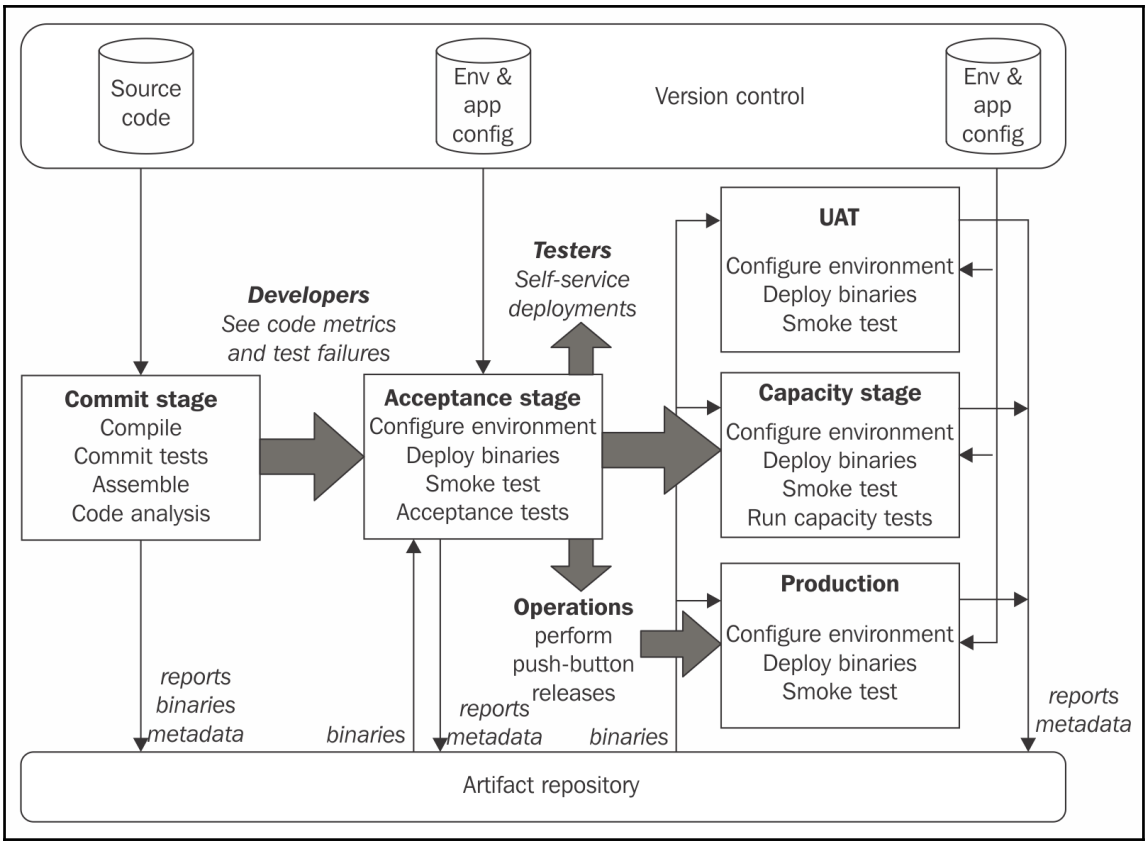


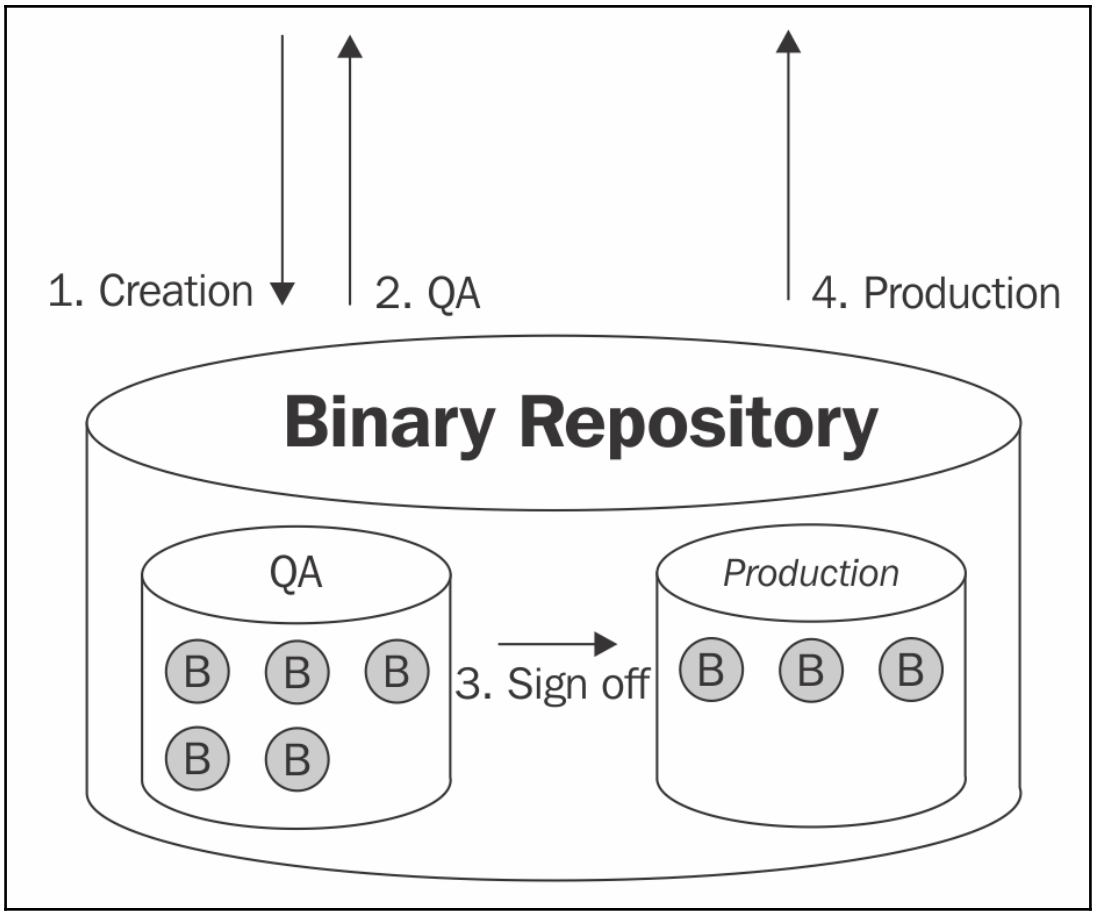

Monolithic
Modular
Presentation Layer
Business Layer
Persistence Layer
Web Application
REST API
Business Logic
E-mail & Password Validation
Data Persistence
(MySQL)
DataBase
Web Application
REST API
Business Logic
Input Validator Service
Data Persistence Service
E-mail Validator
Password Validator
Phone Validator
MySQL
PostgreSQL
DataBase 1
DataBase 2


UI
Business Logic
Data Access Layer
Database
UI
Microservice
Microservice
Microservice
Microservice
Database
Database
Database
Monolithic Architecture
Microservices Architecture

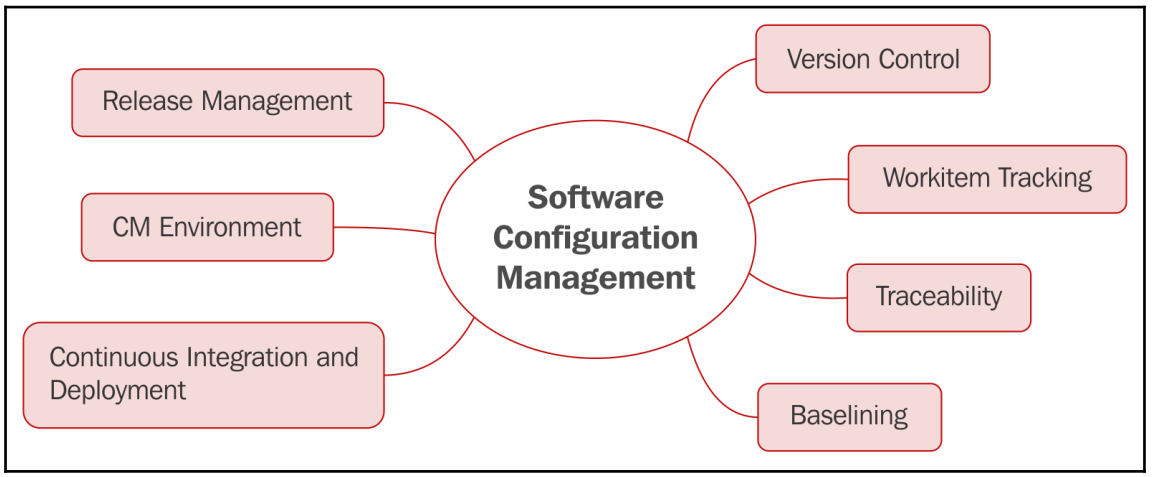

Developer
Continuous Integration Illustrated
Developer
SCM mainline
[auto build]
[auto unit test]
Developer
Failure feedback loop to stakeholders

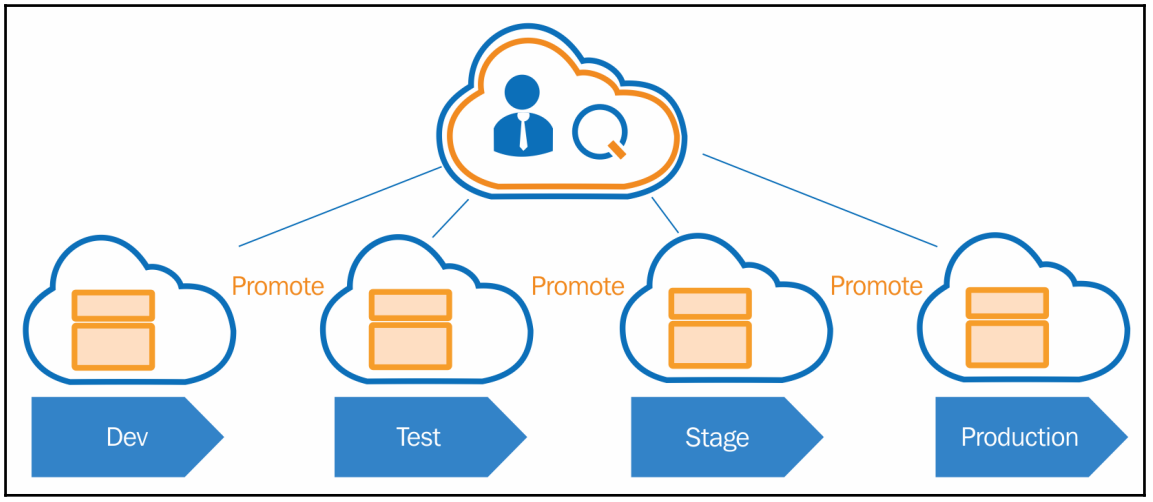

STEP 1: COMMIT STAGE
Commit
Build & Unit Test
Package & Publish to Artifact Repo
CI
STEP 2: ACCEPTANCE STAGE
Deploy to DEV & QA Environments
TEST Deployment
STEP 3: UAT STAGE
LEAD Promote
Deploy to UAT Environment
TEST Deployment
OPS Promote
STEP 4: RELEASE STAGE
Deploy to PROD Environment
Elements of a Continuous Delivery Pipeline

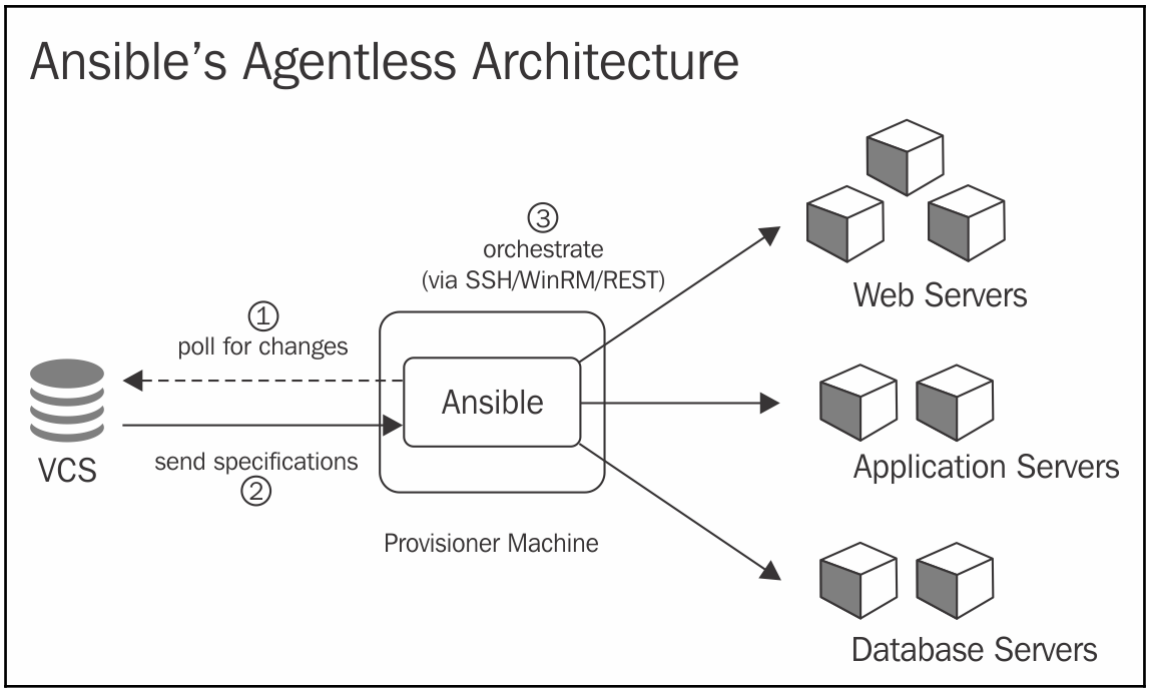

Source code
Env & app config
Version control
Env & app config
Developers
See code metrics and test failures
Testers
Self-service deployments
UAT
Configure environment
Deploy binaries
Smoke test
Commit stage
Compile
Commit tests
Assemble
Code analysis
Acceptance stage
Configure environment
Deploy binaries
Smoke test
Acceptance tests
Capacity stage
Configure environment
Deploy binaries
Smoke test
Run capacity tests
Operations
perform push-button releases
Production
Configure environment
Deploy binaries
Smoke test
reports
binaries
metadata
binaries
reports
metadata
binaries
reports
metadata
Artifact repository

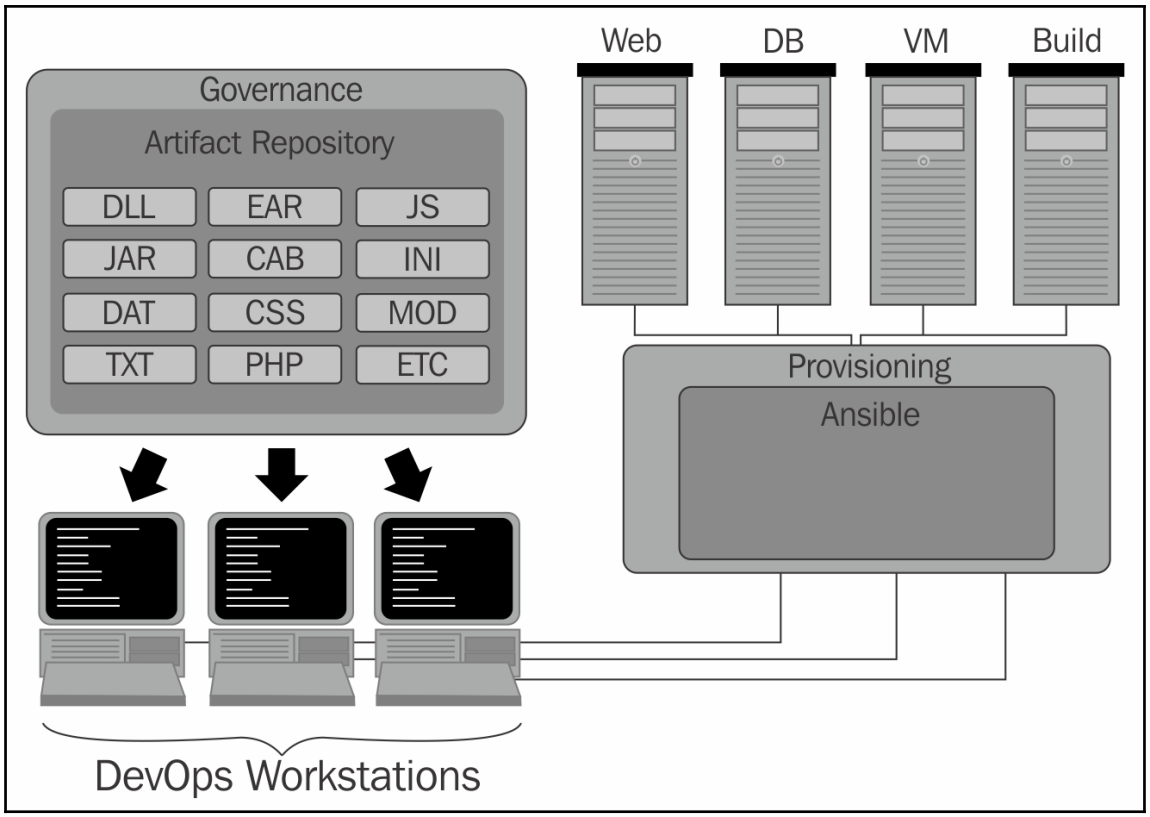

1. Creation
2. QA
4. Production
Binary Repository
QA
B
B
B
B
B
3. Sign off
Production
B
B
B

Chapter 2: Configuration Management Essentials

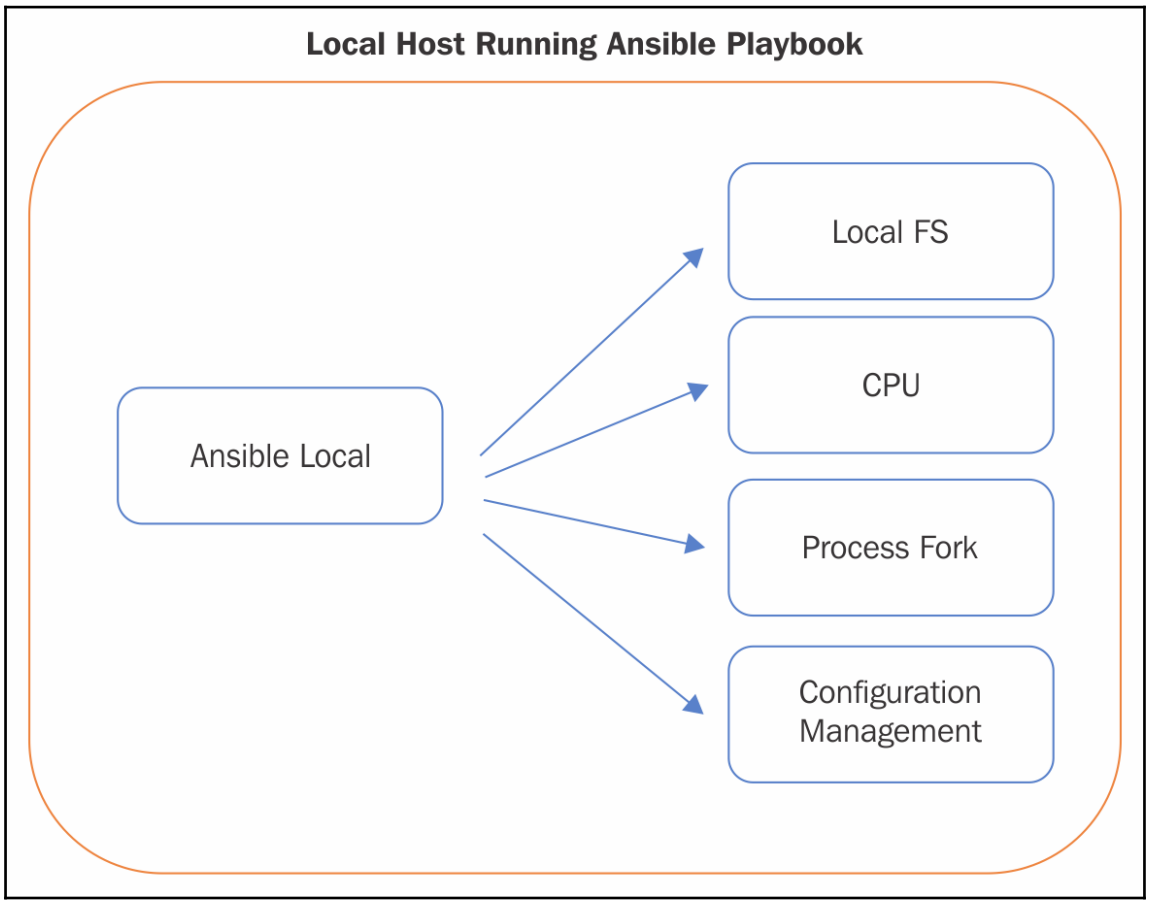


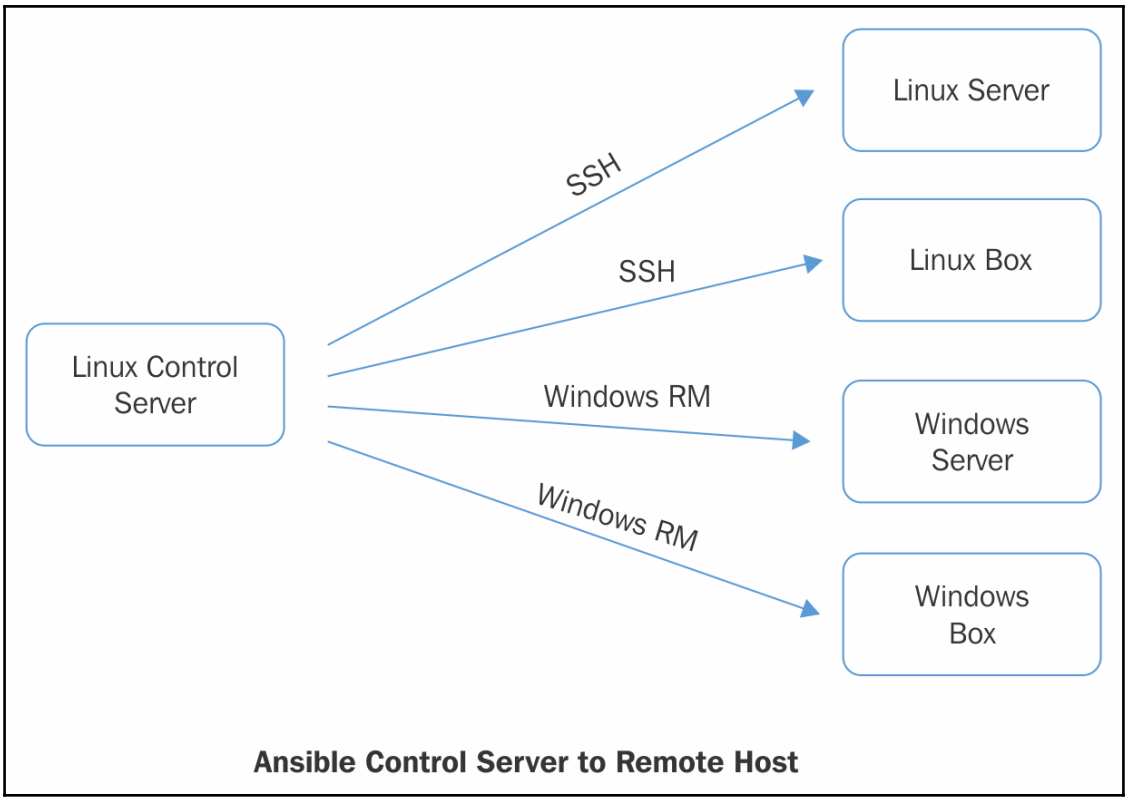



Ansible's Agentless Architecture
③
orchestrate
(via SSH/WinRM/REST)
Web Servers
①
poll for changes
Ansible
VCS
send specifications
②
Application Servers
Provisioner Machine
Database Servers

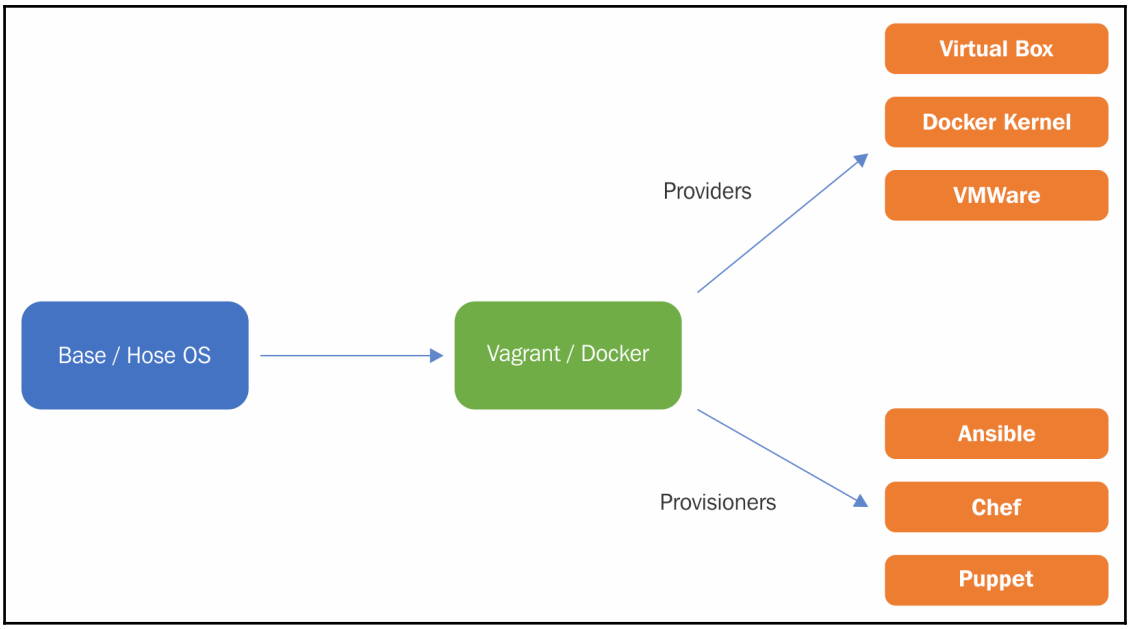

Web
DB
VM
Build
Governance
Artifact Repository
DLL
EAR
JS
JAR
CAB
INI
DAT
CSS
MOD
TXT
PHP
ETC
Provisioning
Ansible
DevOps Workstations

Chapter 3: Installing, Configuring, and Running Ansible

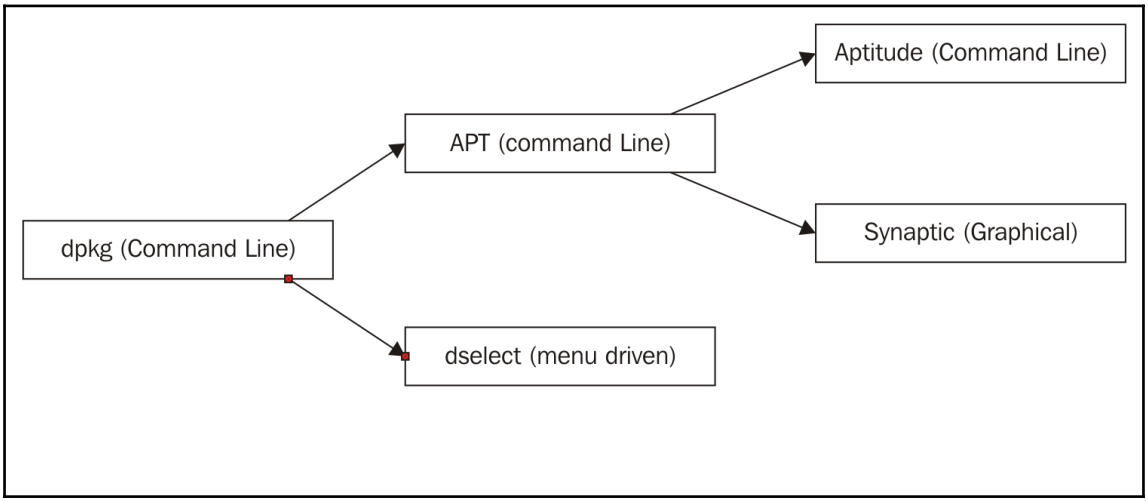




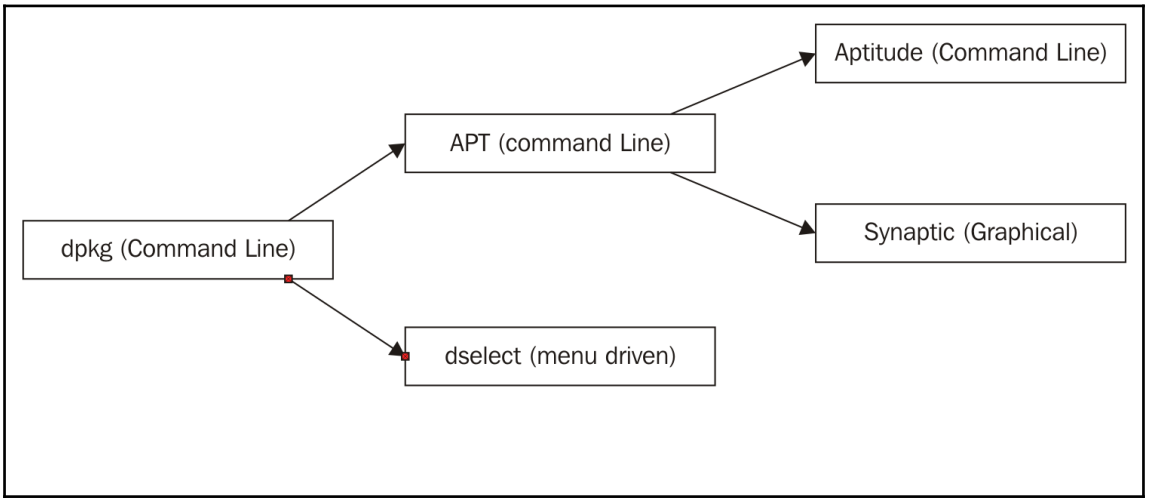
Ansible Control Server to Remote Host


Virtual Box
Docker Kernel
VMWare
Providers
Base / Hose OS
Vagrant / Docker
Ansible
Provisioners
Chef
Puppet

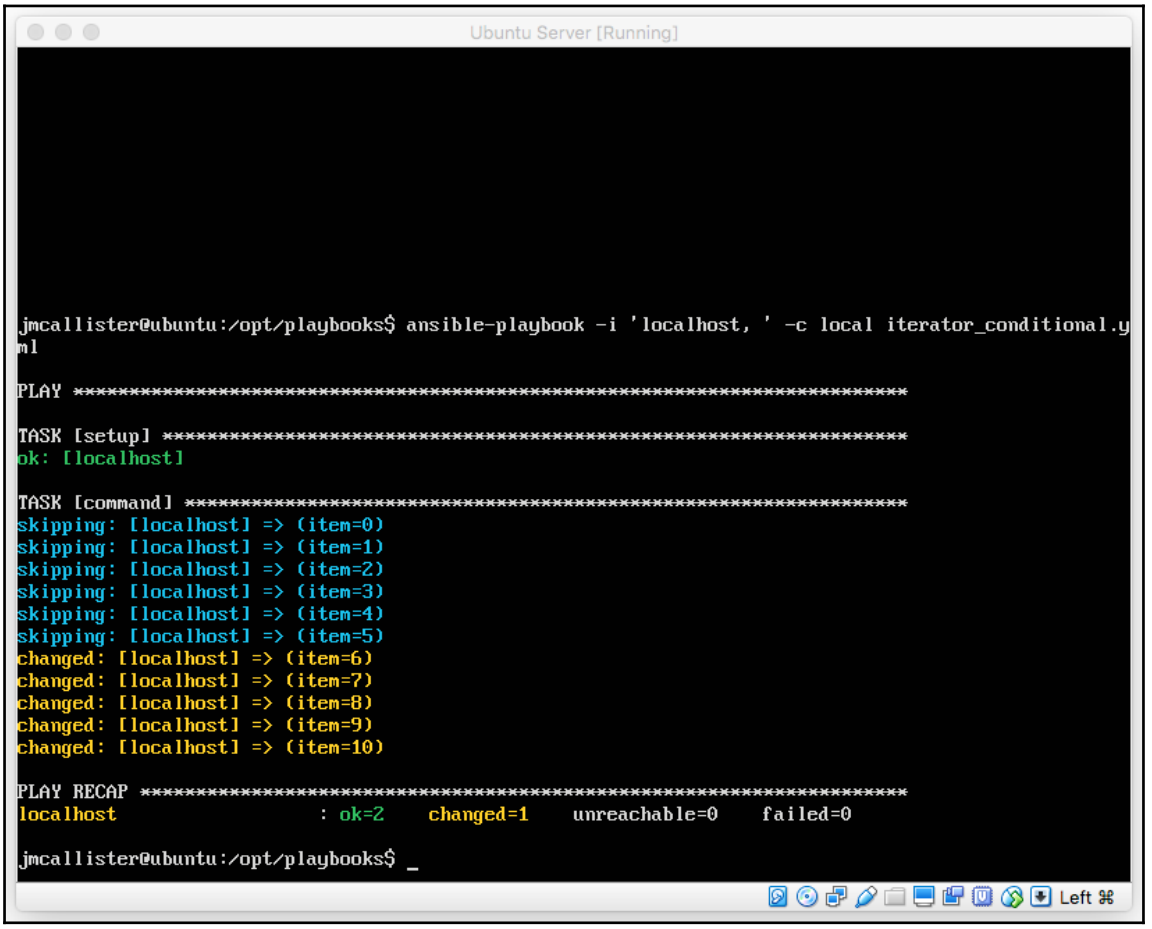
Chapter 4: Playbooks and Inventory Files

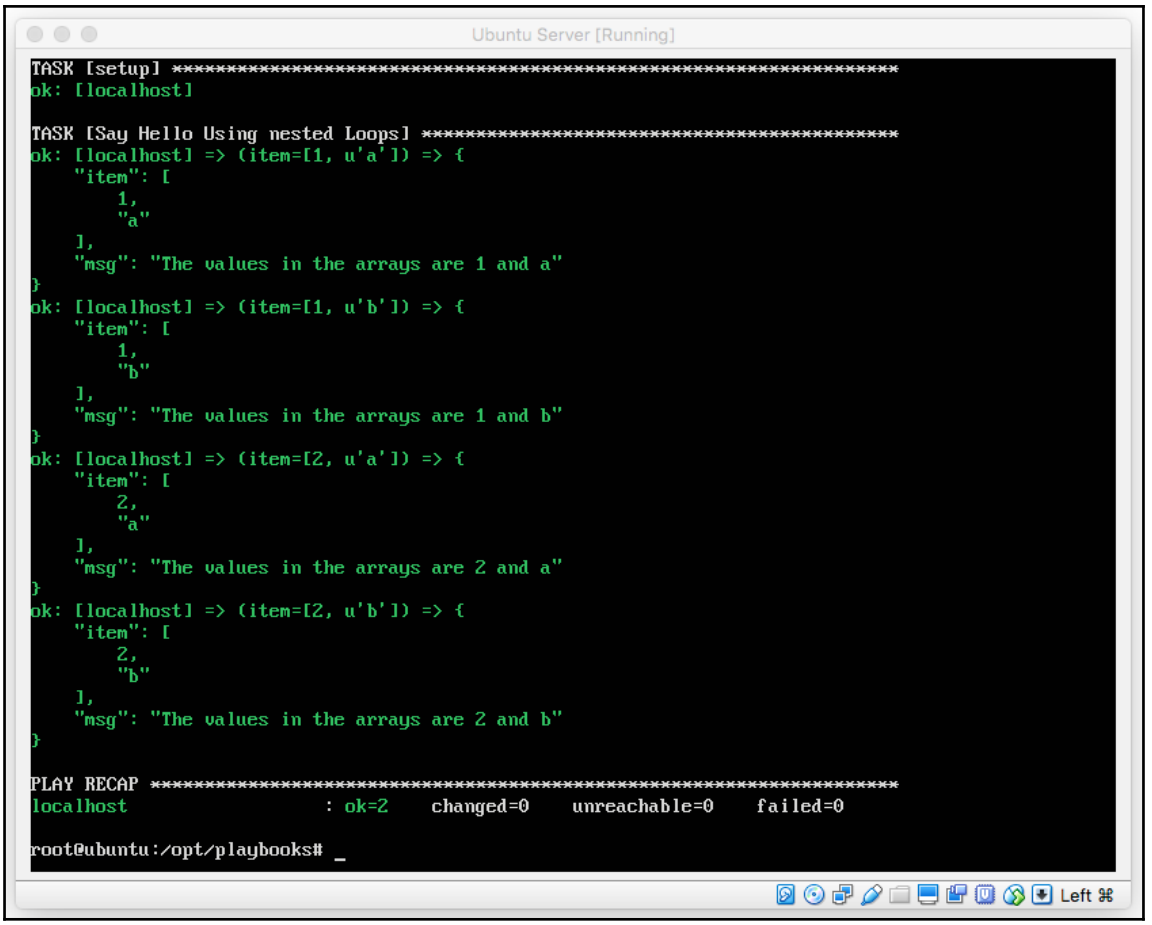


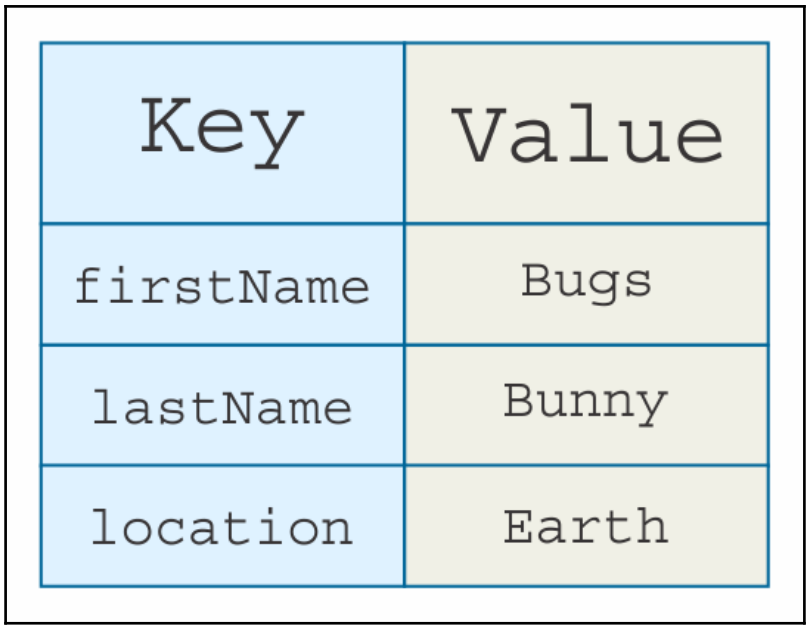
Chapter 5: Playbooks and Inventory Files

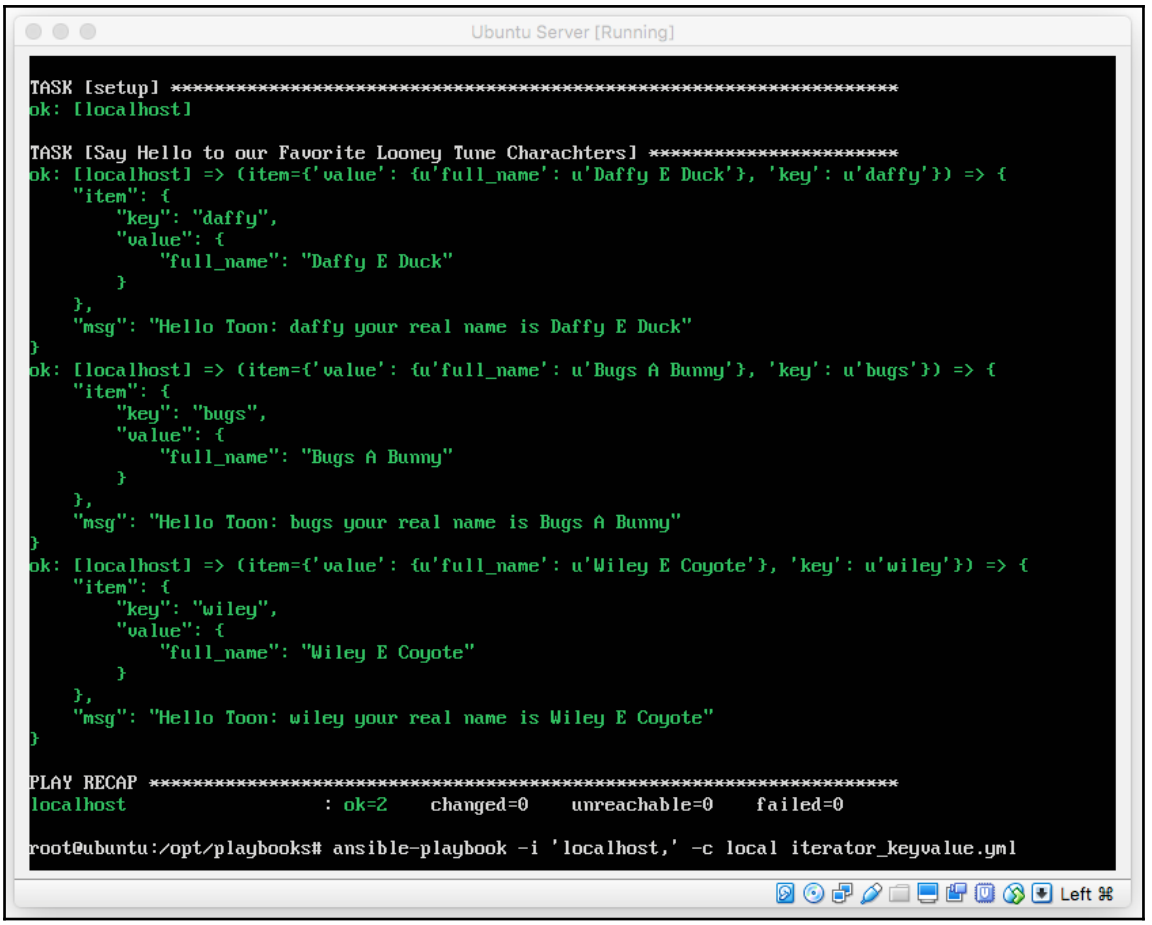


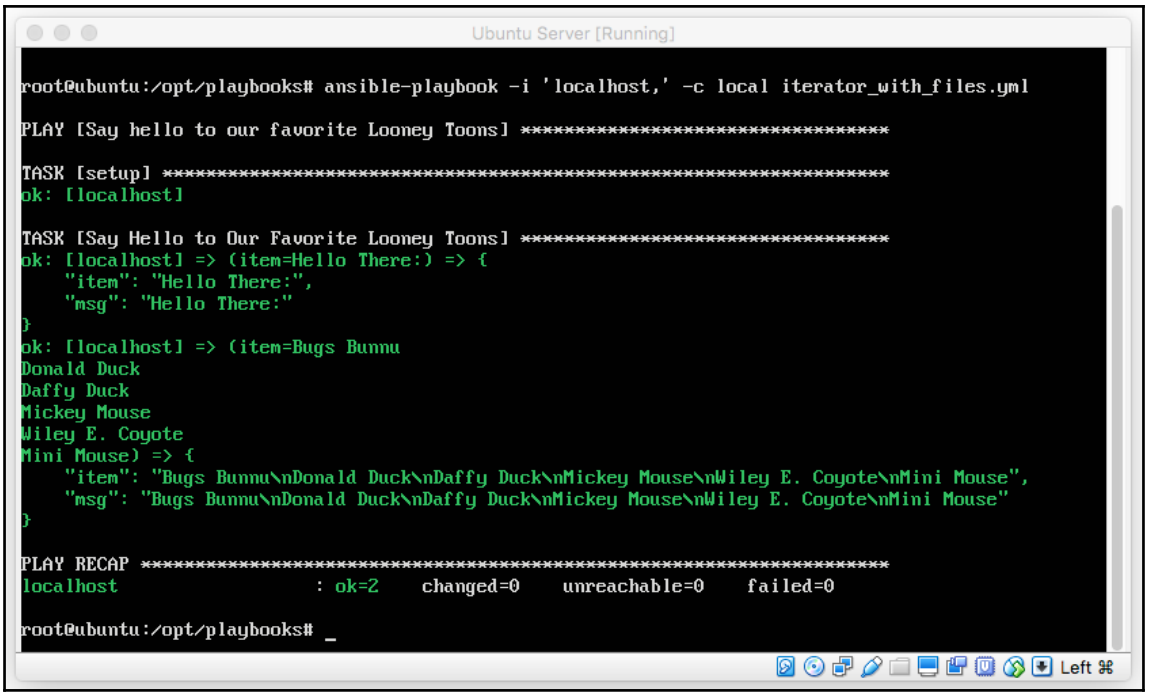
Chapter 6: Playbooks – Beyond the Fundamentals

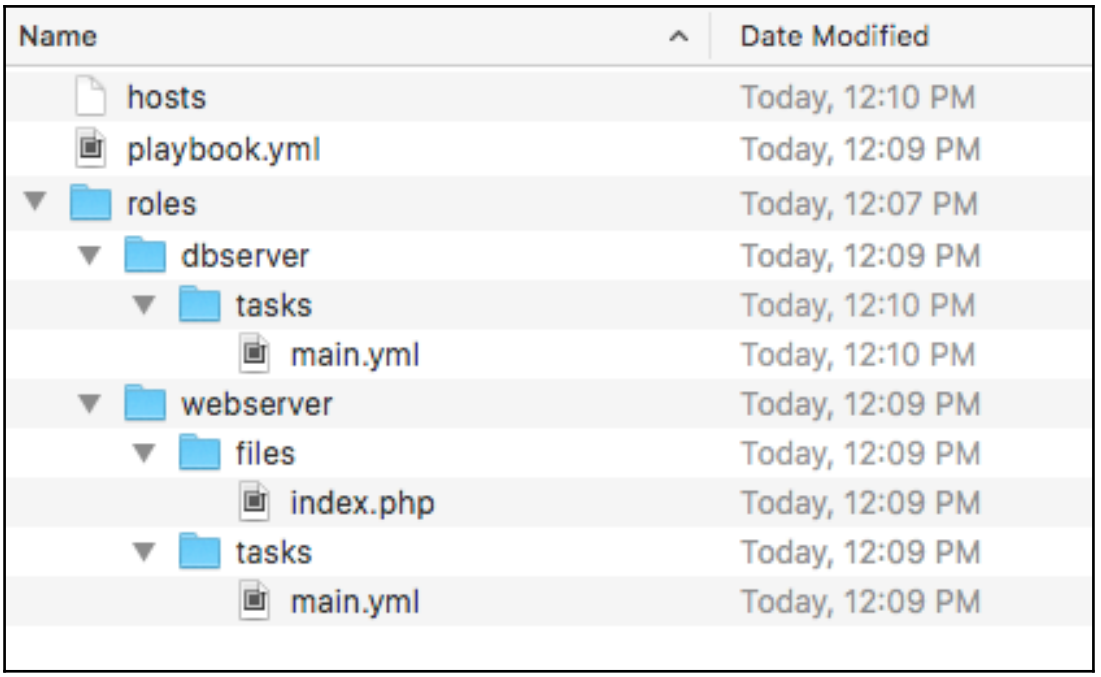



Ubuntu Server [Running]
TASK [setup] ***
ok: [localhost]
TASK [Say Hello Using nested Loops] **
ok: [localhost] => (item=[1, u'a']) => {
"item": [
1,
"a"
],
"msg": "The values in the arrays are 1 and a"
}
ok: [localhost] => (item=[1, u'b']) => {
"item": [
1,
"b"
],
"msg": "The values in the arrays are 1 and b"
}
ok: [localhost] => (item=[2, u'a']) => {
"item": [
2,
"a"
],
"msg": "The values in the arrays are 2 and a"
}
ok: [localhost] => (item=[2, u'b']) => {
"item": [
2,
"b"
],
"msg": "The values in the arrays are 2 and b"
}
PLAY RECAP ***
localhost : ok=2 changed=0 unreachable=0 failed=0
root@ubuntu:/opt/playbooks# _
Left ⌘

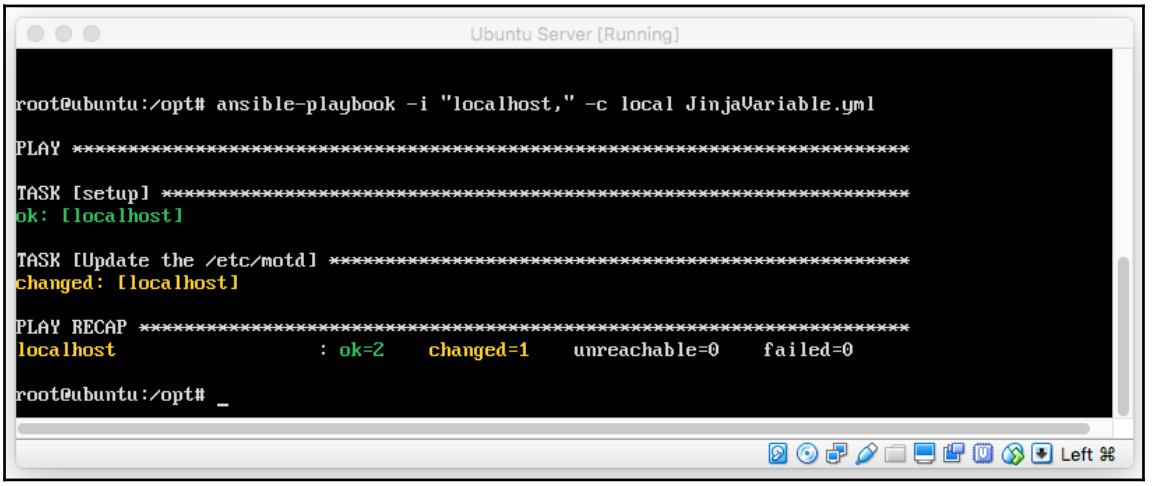

Key
Value
firstName
Bugs
lastName
Bunny
location
Earth

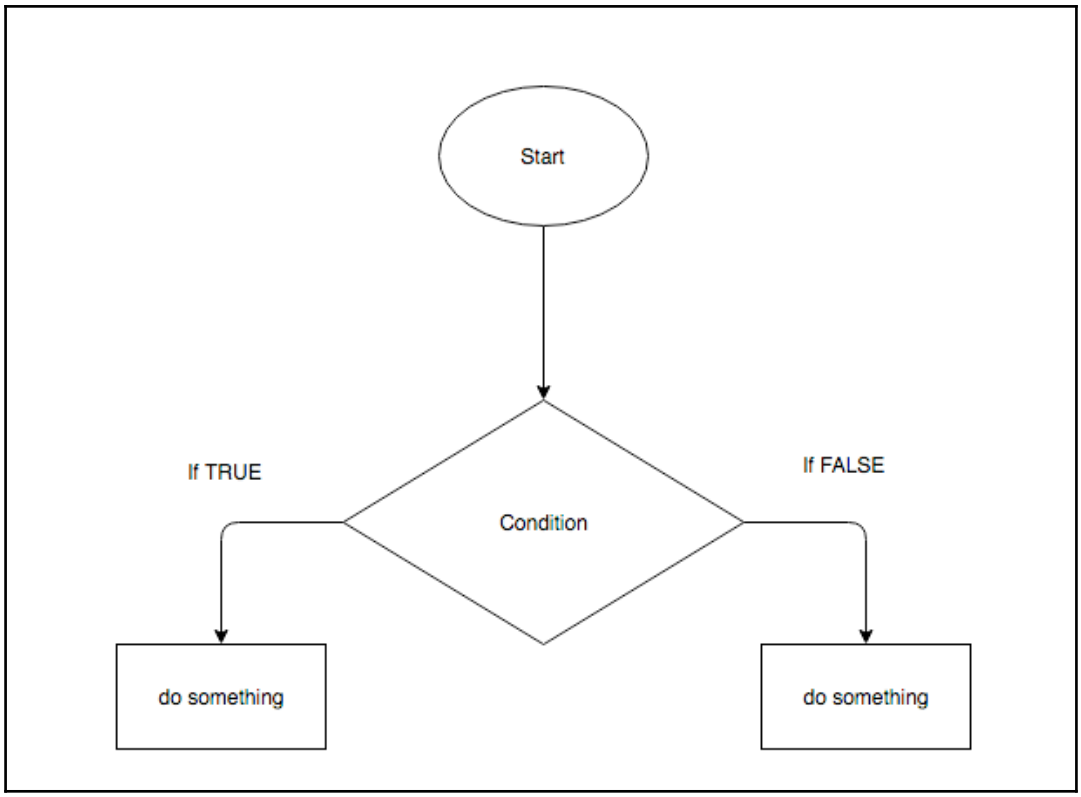

Ubuntu Server [Running]
TASK [setup] ***
ok: [localhost]
TASK [Say Hello to our Favorite Looney Tune Charachters] ***********************
ok: [localhost] => (item={'value': {u'full_name': u'Daffy E Duck'}, 'key': u'daffy'}) => {
"item": {
"key": "daffy",
"value": {
"full_name": "Daffy E Duck"
}
},
"msg": "Hello Toon: daffy your real name is Daffy E Duck"
}
ok: [localhost] => (item={'value': {u'full_name': u'Bugs A Bunny'}, 'key': u'bugs'}) => {
"item": {
"key": "bugs",
"value": {
"full_name": "Bugs A Bunny"
}
},
"msg": "Hello Toon: bugs your real name is Bugs A Bunny"
}
ok: [localhost] => (item={'value': {u'full_name': u'Wiley E Coyote'}, 'key': u'wiley'}) => {
"item": {
"key": "wiley",
"value": {
"full_name": "Wiley E Coyote"
}
},
"msg": "Hello Toon: wiley your real name is Wiley E Coyote"
}
PLAY RECAP ***
localhost : ok=2 changed=0 unreachable=0 failed=0
root@ubuntu:/opt/playbooks# ansible-playbook -i 'localhost,' -c local iterator_keyvalue.yml
Left ⌘

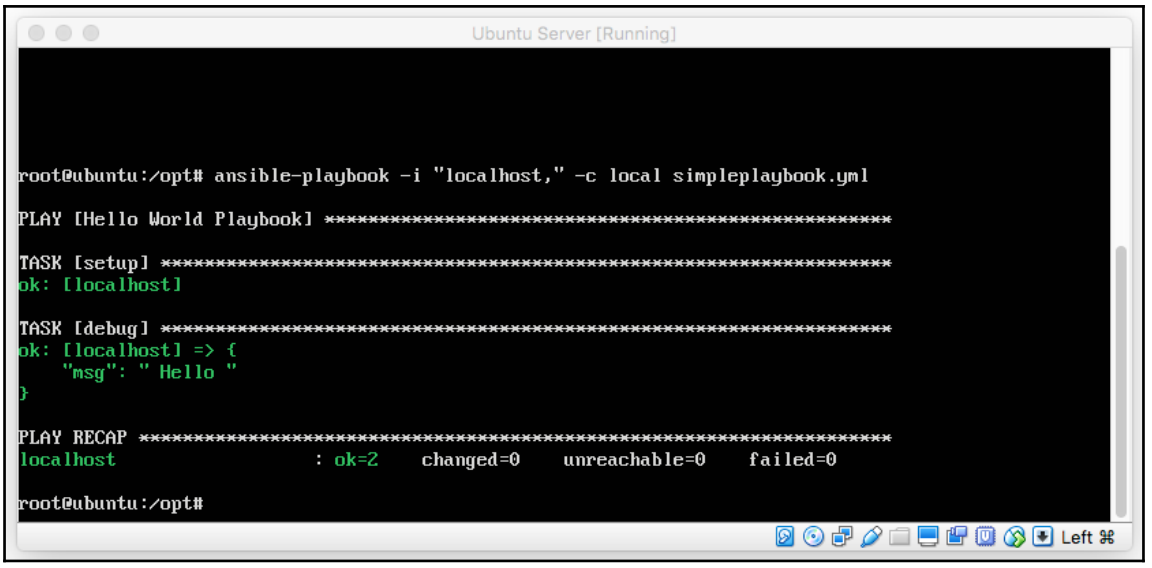

Ubuntu Server [Running]
root@ubuntu:/opt/playbooks# ansible-playbook -i 'localhost,' -c local iterator_with_files.yml
PLAY [Say hello to our favorite Looney Toons] **********
TASK [setup] **********
ok: [localhost]
TASK [Say Hello to Our Favorite Looney Toons] **********
ok: [localhost] => (item=Hello There:) => {
"item": "Hello There:",
"msg": "Hello There:"
}
ok: [localhost] => (item=Bugs Bunnu
Donald Duck
Daffy Duck
Mickey Mouse
Wiley E. Coyote
Mini Mouse) => {
"item": "Bugs Bunnu\nDonald Duck\nDaffy Duck\nMickey Mouse\nWiley E. Coyote\nMini Mouse",
"msg": "Bugs Bunnu\nDonald Duck\nDaffy Duck\nMickey Mouse\nWiley E. Coyote\nMini Mouse"
}
PLAY RECAP **********
localhost : ok=2 changed=0 unreachable=0 failed=0
root@ubuntu:/opt/playbooks# _
Left ⌘

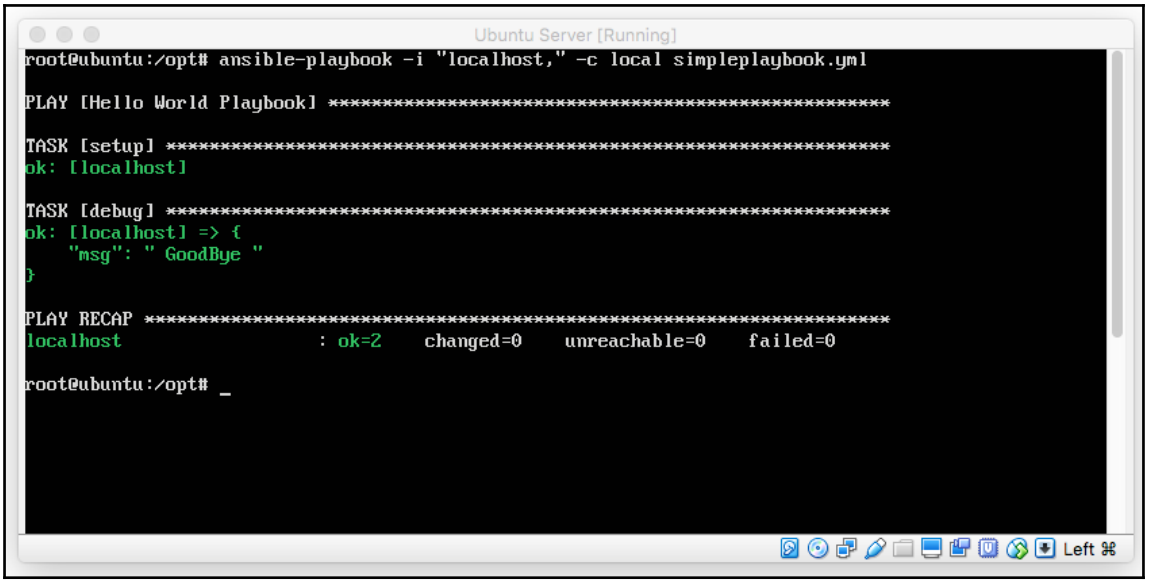

Name
Date Modified
hosts
Today, 12:10 PM
playbook.yml
Today, 12:09 PM
roles
Today, 12:07 PM
dbserver
Today, 12:09 PM
tasks
Today, 12:10 PM
main.yml
Today, 12:10 PM
webserver
Today, 12:09 PM
files
Today, 12:09 PM
index.php
Today, 12:09 PM
tasks
Today, 12:09 PM
main.yml
Today, 12:09 PM

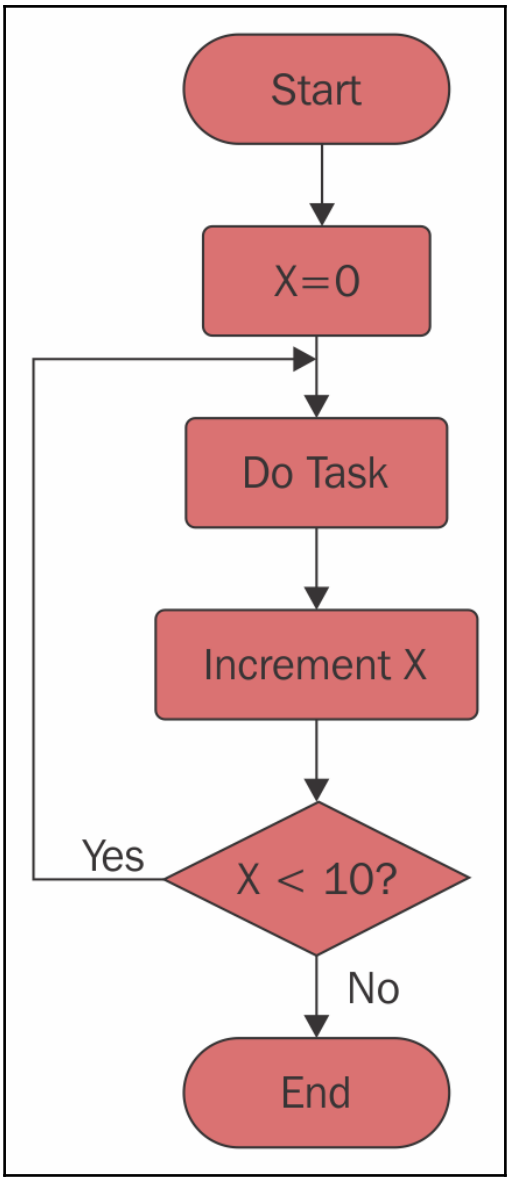
Chapter 7: Jinja in Ansible

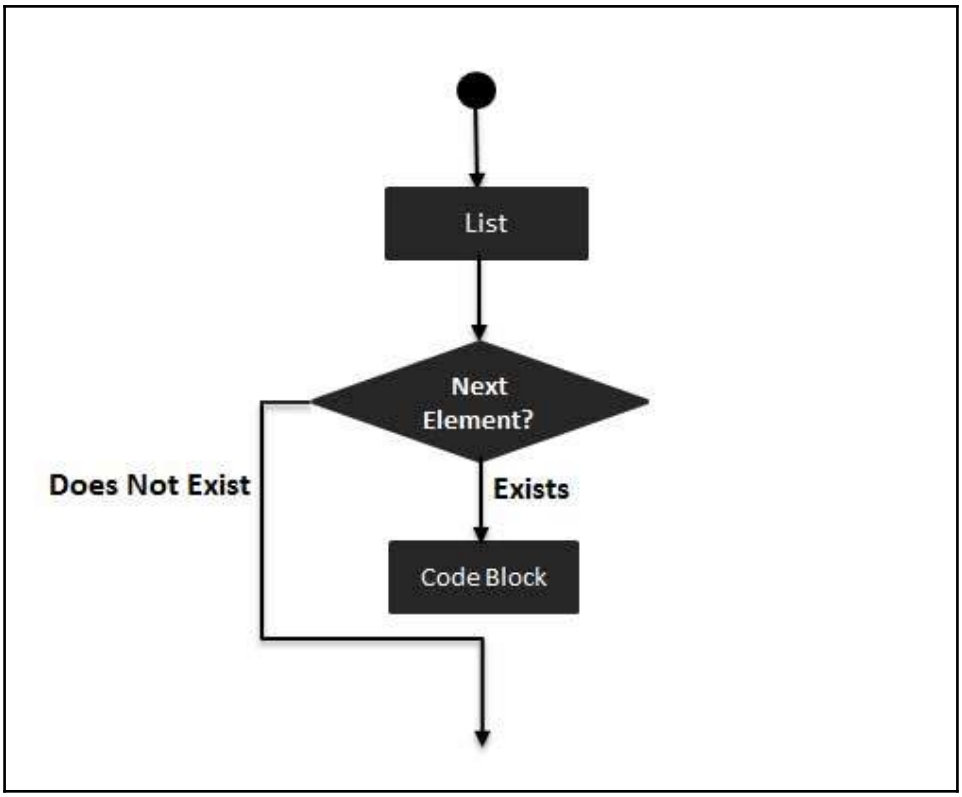


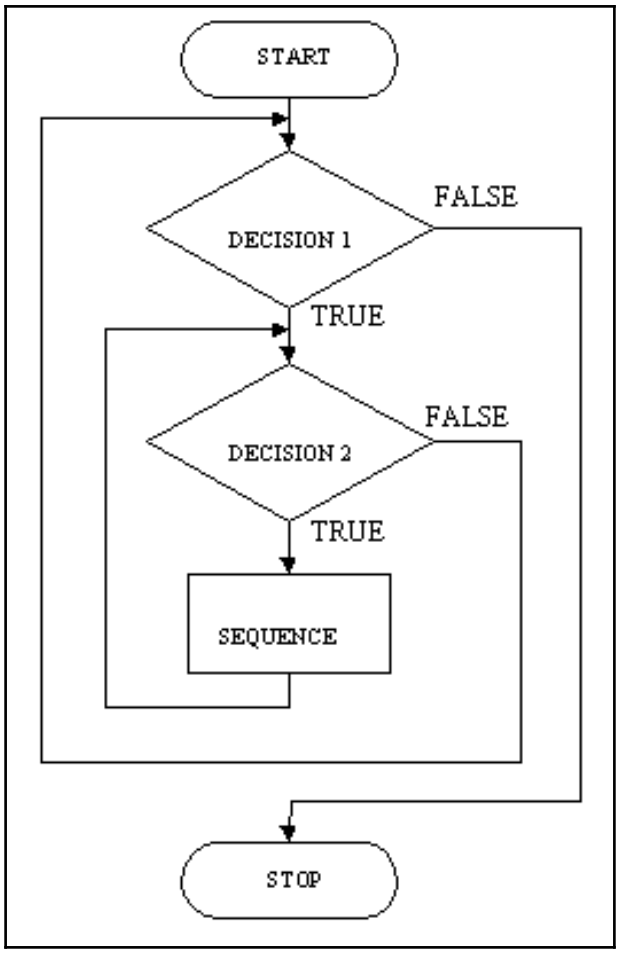

Start
Condition
If TRUE
If FALSE
do something
do something


Ubuntu Server [Running]
root@ubuntu:/opt# ansible-playbook -i "localhost," -c local simpleplaybook.yml
PLAY [Hello World Playbook] **
TASK [setup] ***
ok: [localhost]
TASK [debug] ***
ok: [localhost] => {
"msg": " Hello "
}
PLAY RECAP ***
localhost : ok=2 changed=0 unreachable=0 failed=0
root@ubuntu:/opt#
Left ⌘

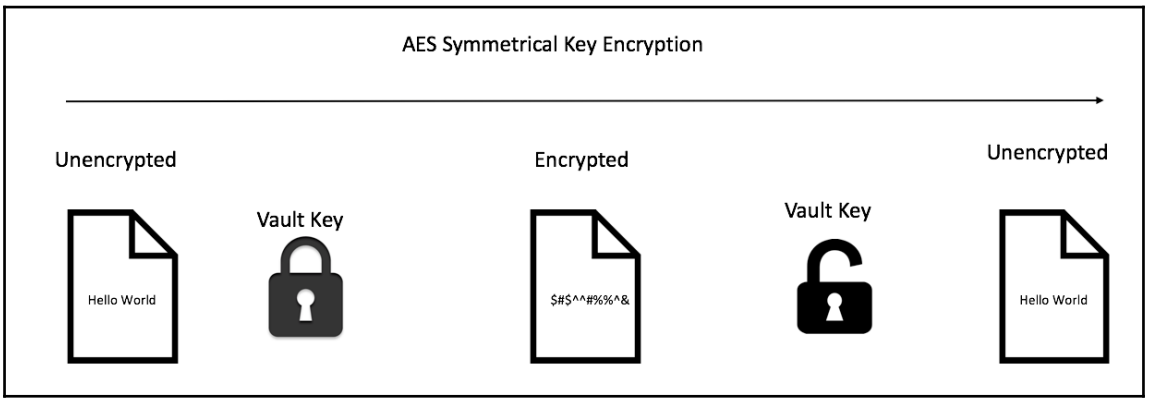

Ubuntu Server [Running]
root@ubuntu:/opt# ansible-playbook -i "localhost," -c local simpleplaybook.yml
PLAY [Hello World Playbook] **
TASK [setup] ***
ok: [localhost]
TASK [debug] ***
ok: [localhost] => {
"msg": " GoodBye "
}
PLAY RECAP ***
localhost : ok=2 changed=0 unreachable=0 failed=0
root@ubuntu:/opt# _
Left ⌘


Start
X=0
Do Task
Increment X
Yes
X < 10?
No
End

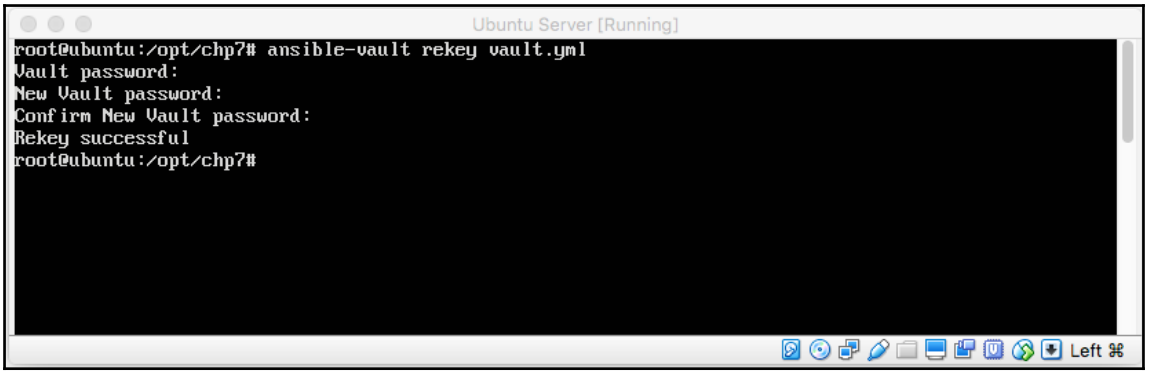

List
Next
Element?
Does Not Exist
Exists
Code Block

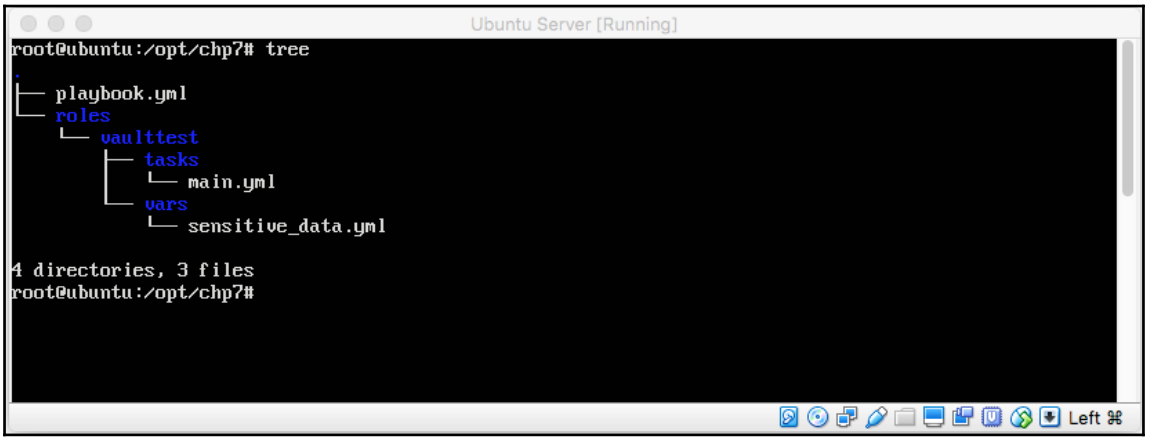

START
DECISION 1
FALSE
TRUE
DECISION 2
FALSE
TRUE
SEQUENCE
STOP

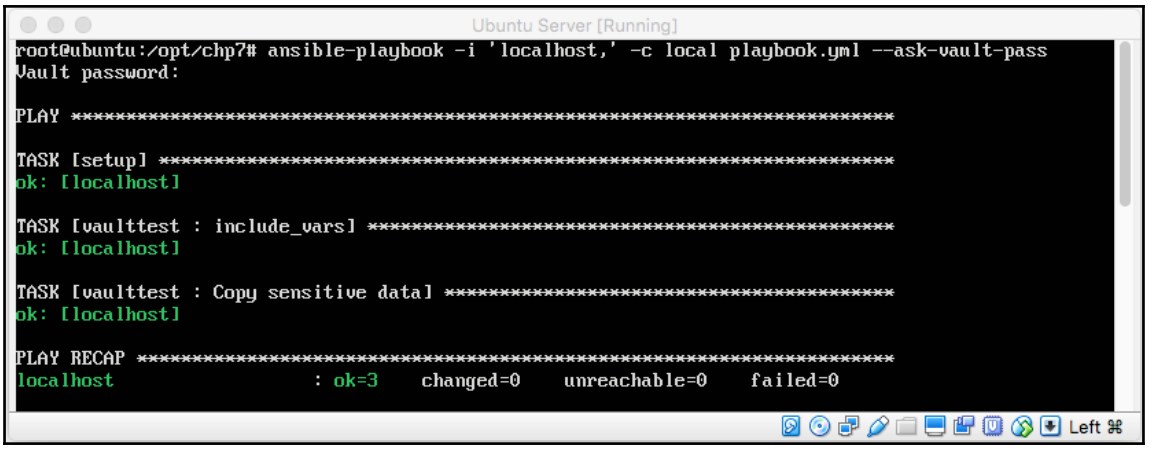
Chapter 8: Ansible Vault



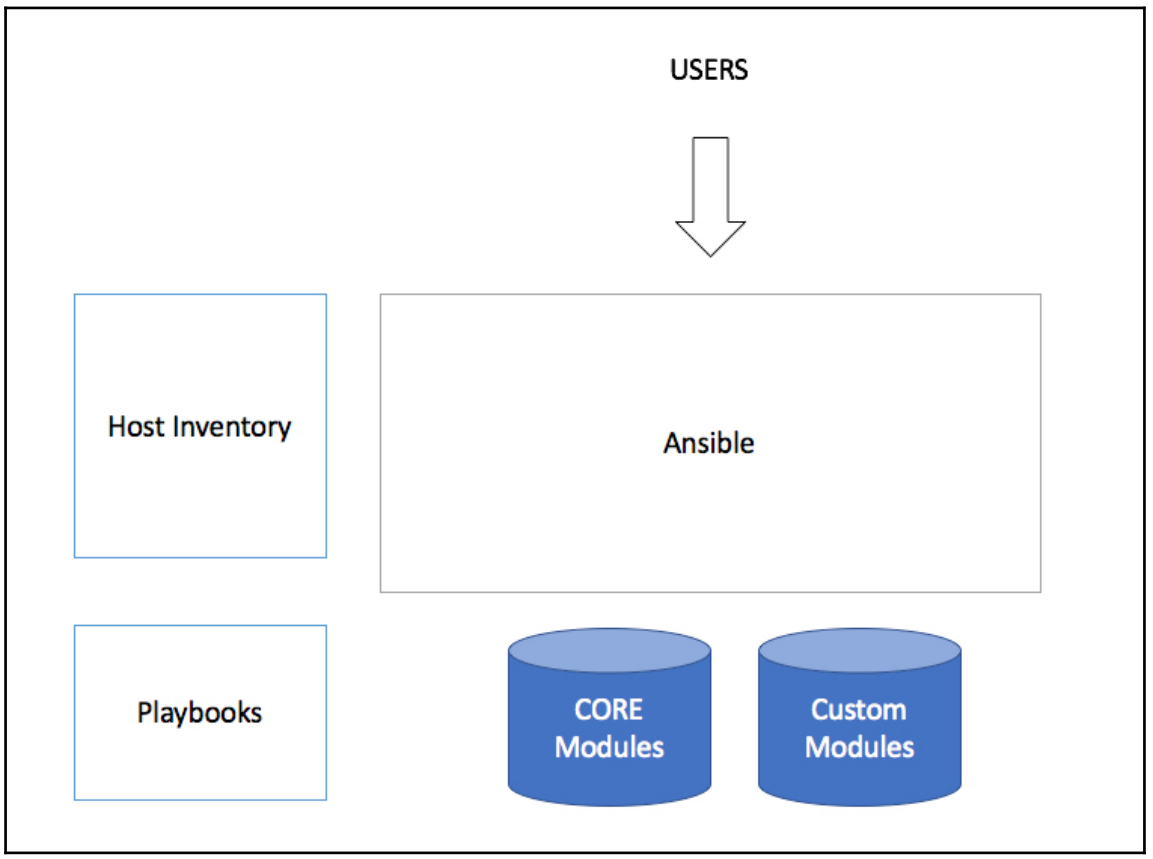

Ubuntu Server [Running]
root@ubuntu:/opt/chp7# cat vault.yml
integer: 25
string: "Hello"
float: 25.0
boolean: Yes
root@ubuntu:/opt/chp7#
Left ⌘


Ubuntu Server [Running]
root@ubuntu:/opt/chp7# ansible-vault rekey vault.yml
Vault password:
New Vault password:
Confirm New Vault password:
Rekey successful
root@ubuntu:/opt/chp7#
Left ⌘

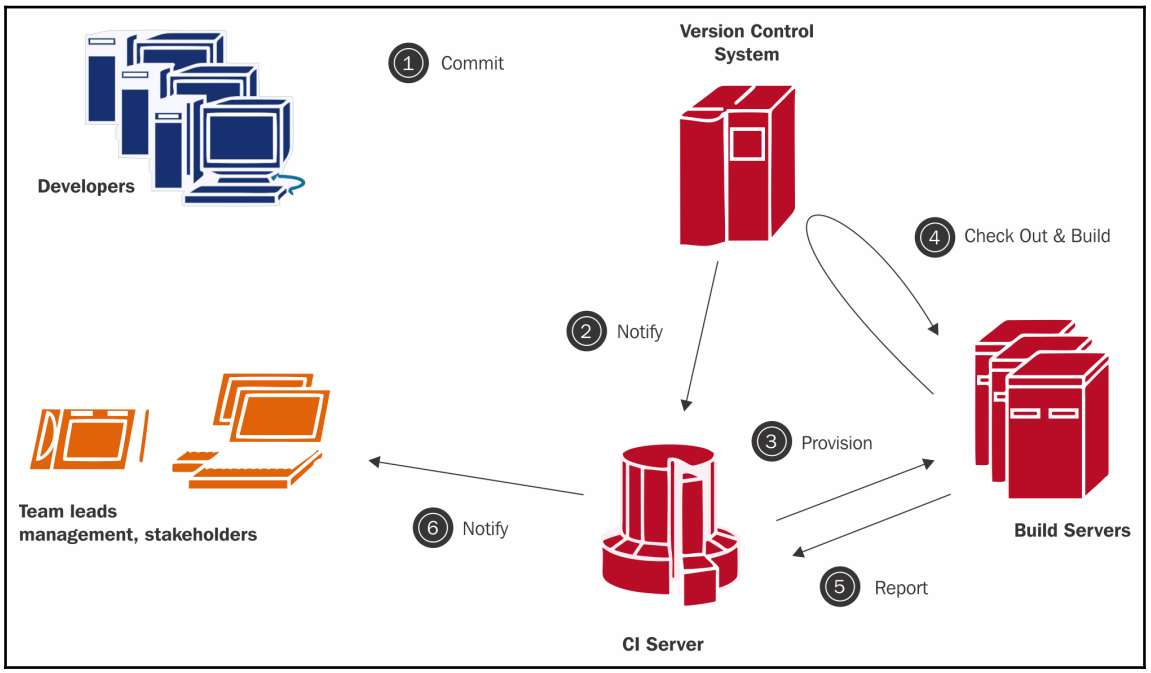

Ubuntu Server [Running]
root@ubuntu:/opt/chp7# tree
.
├── playbook.yml
└── roles
    └── vaulttest
        ├── tasks
        │   └── main.yml
        └── vars
            └── sensitive_data.yml
4 directories, 3 files
root@ubuntu:/opt/chp7#
Left ⌘

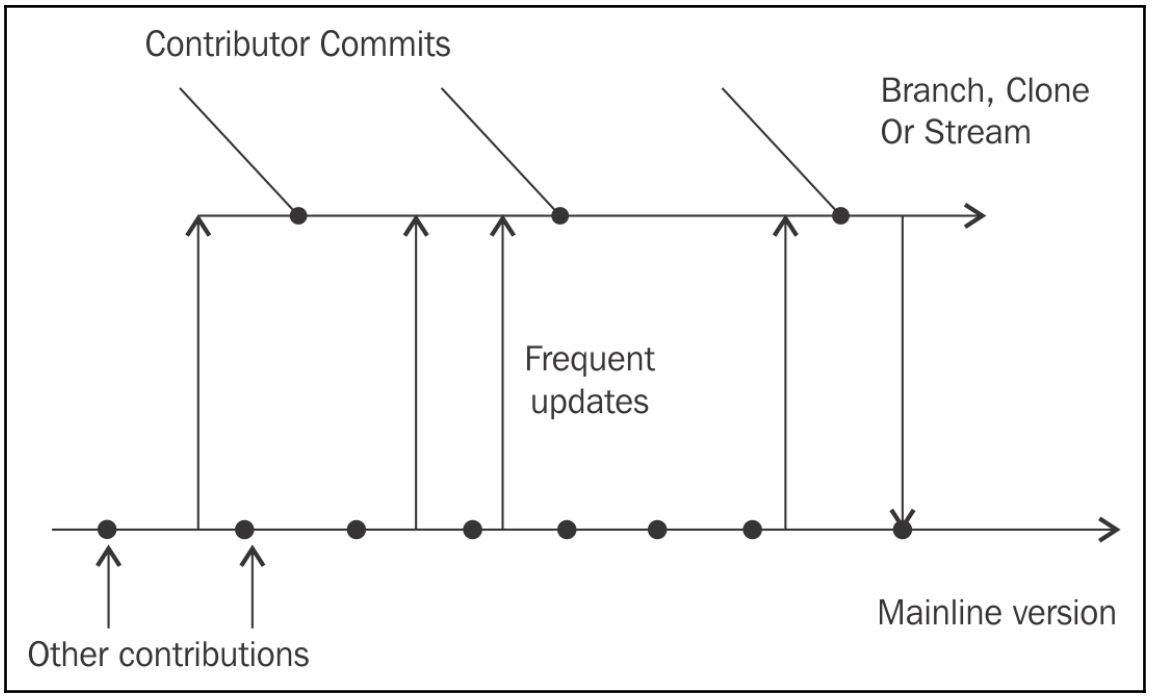

Ubuntu Server [Running]
root@ubuntu:/opt/chp7# ansible-playbook -i 'localhost,' -c local playbook.yml --ask-vault-pass
Vault password:
PLAY ***
TASK [setup] ***
ok: [localhost]
TASK [vaulttest : include_vars] **
ok: [localhost]
TASK [vaulttest : Copy sensitive data] ***
ok: [localhost]
PLAY RECAP ***
localhost : ok=3 changed=0 unreachable=0 failed=0
Left ⌘

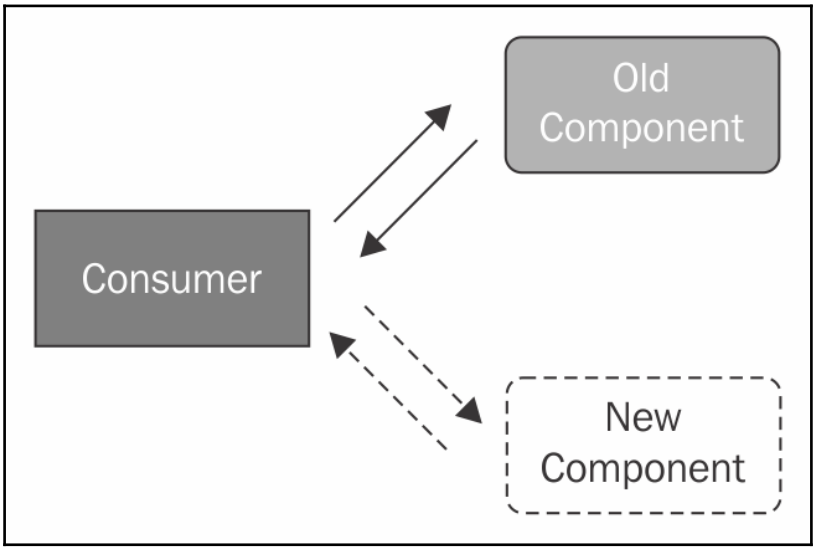
Chapter 9: Ansible Modules and Libraries

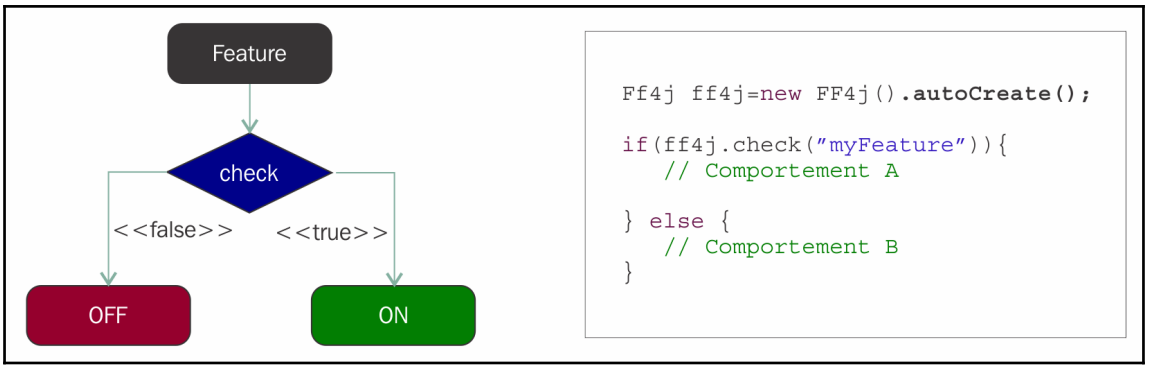


Chapter 10: Integrating Ansible with CI and CD Solutions

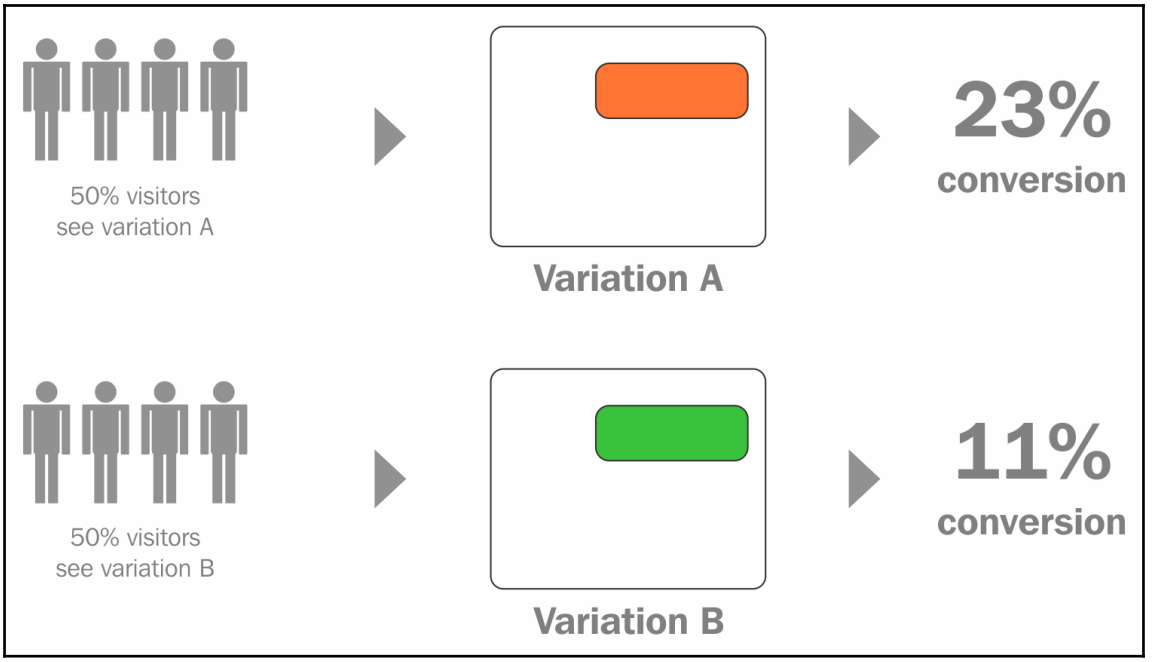


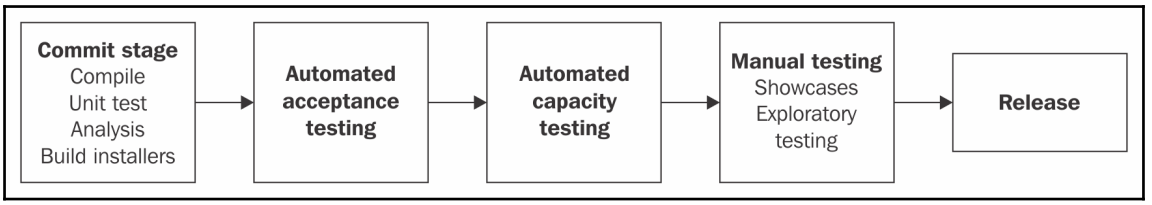

Contributor Commits
Branch, Clone
Or Stream
Frequent
updates
Mainline version
Other contributions

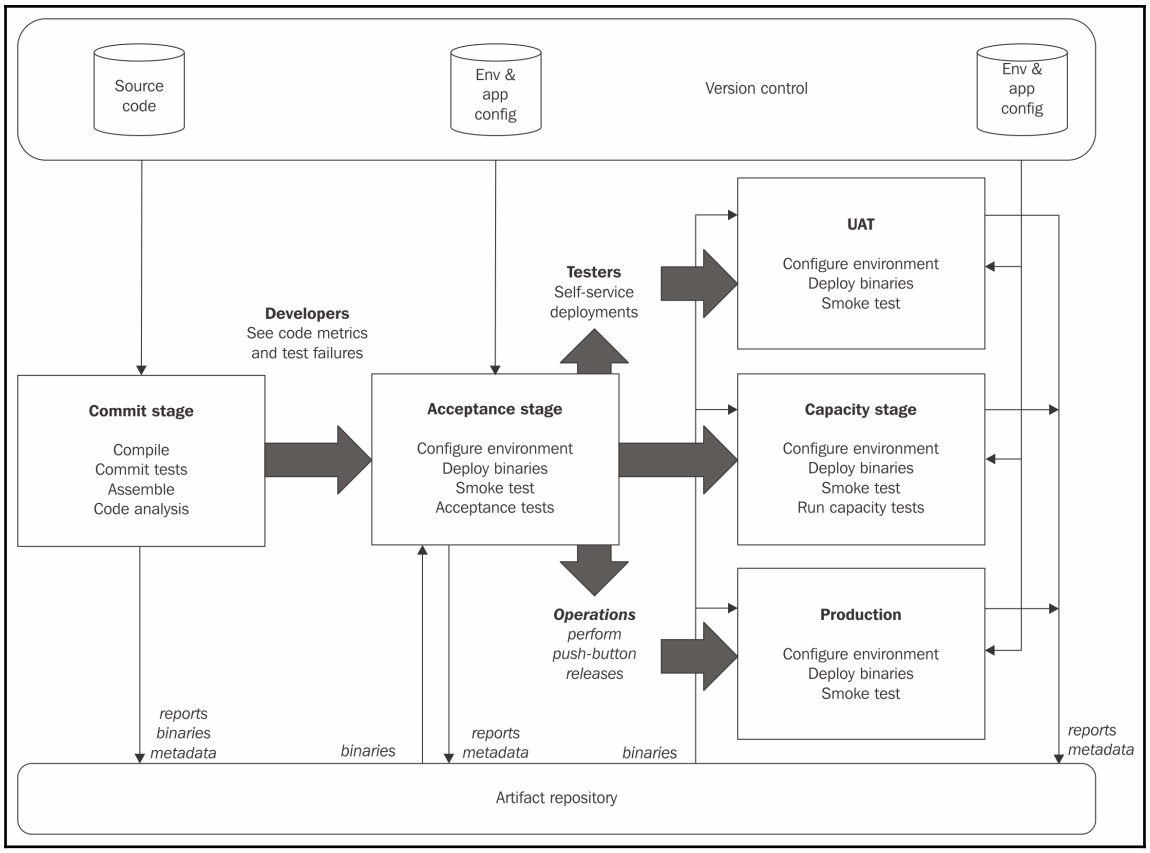

Old
Component
Consumer
New
Component

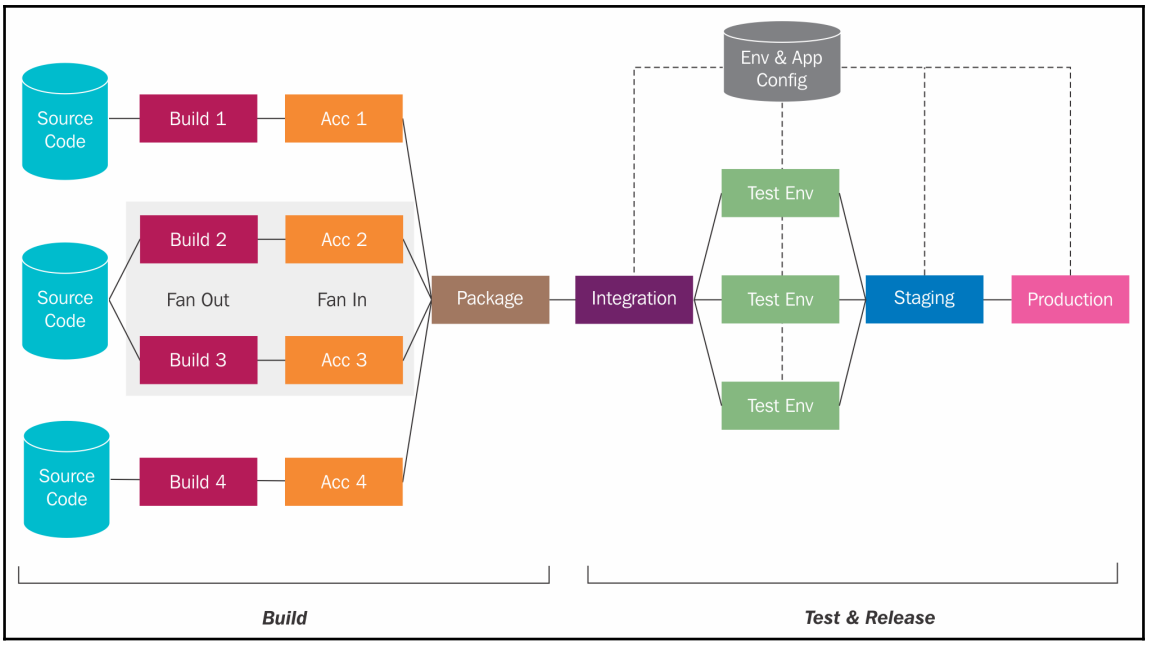


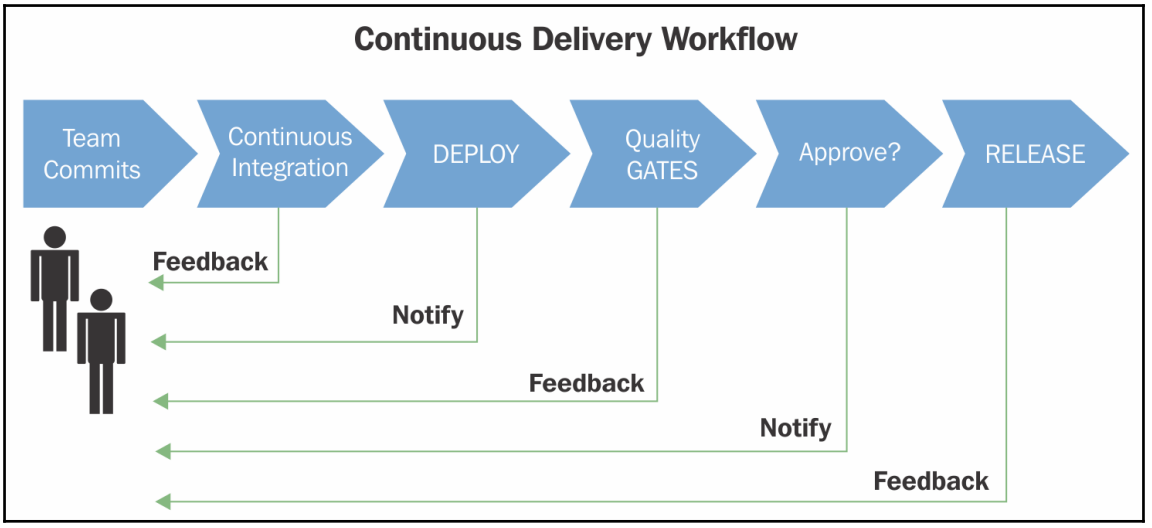

```
Ff4j ff4j=new FF4j().autoCreate();

if(ff4j.check("myFeature")){
   // Comportement A

} else {
   // Comportement B
}
```

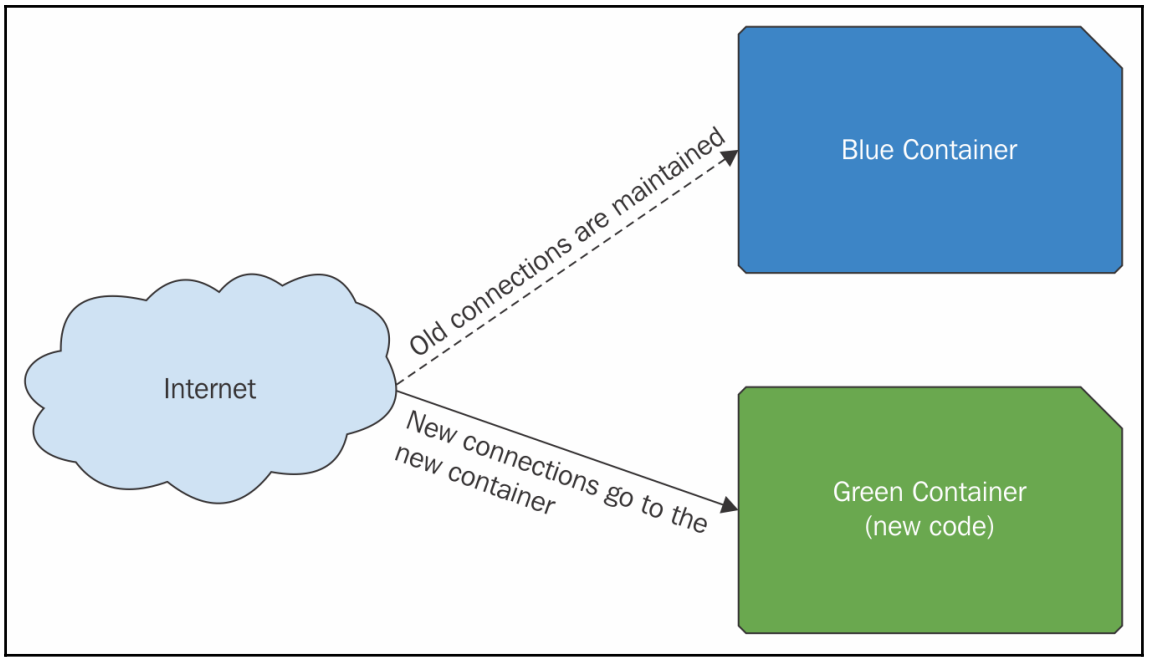


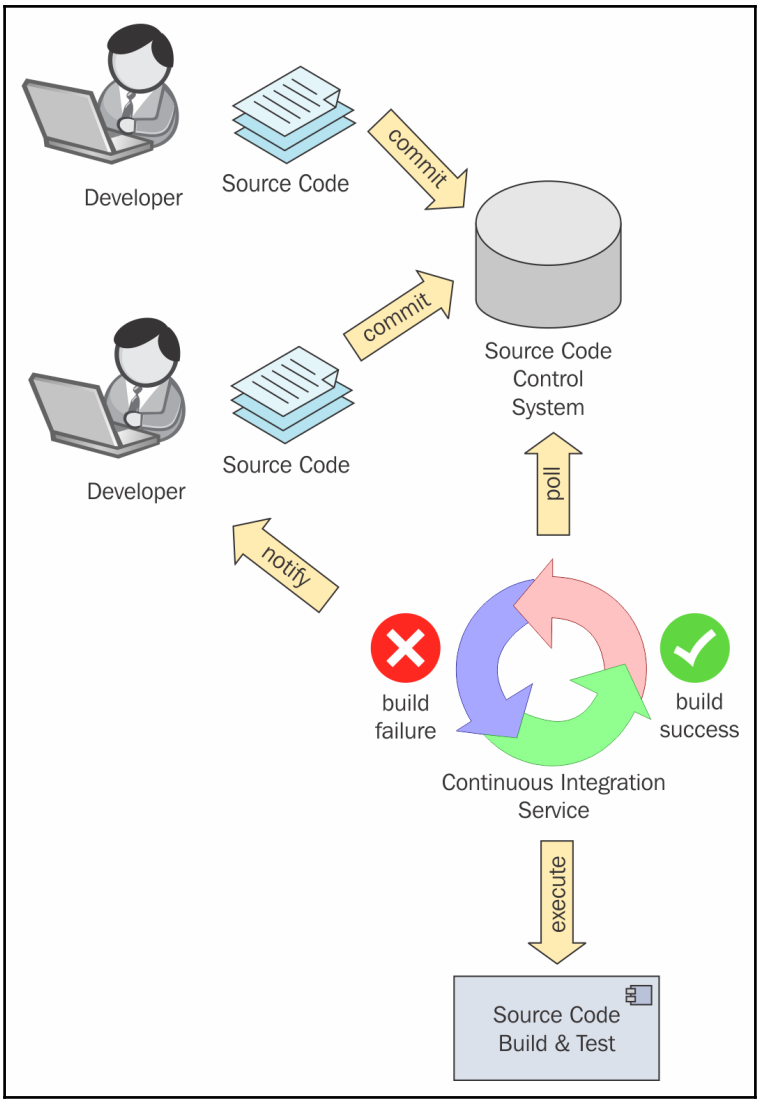


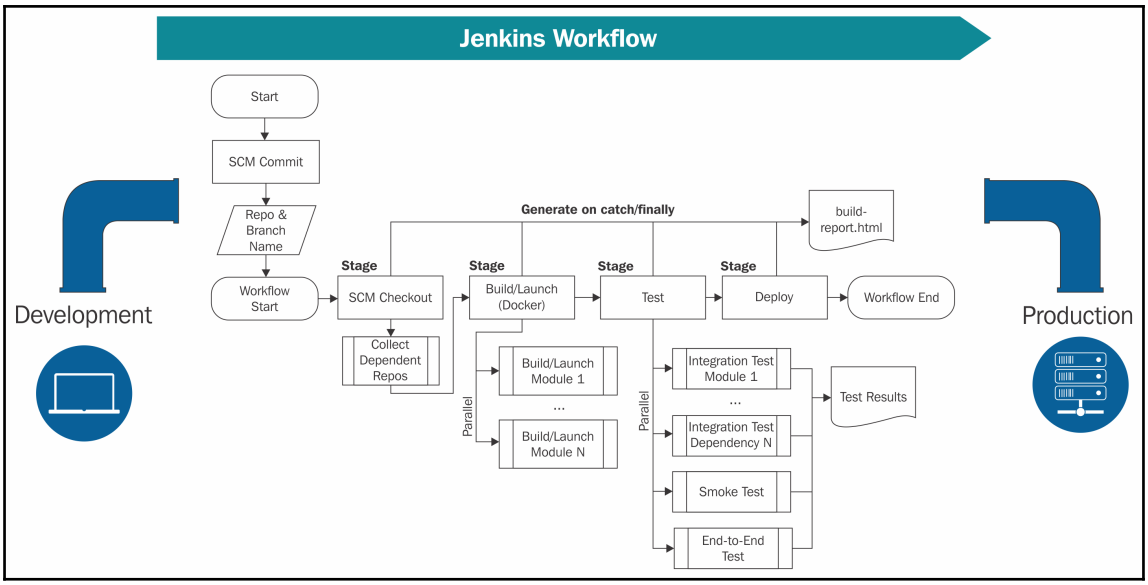

Source code
Env & app config
Version control
Env & app config
UAT
Configure environment
Deploy binaries
Smoke test
Testers
Self-service deployments
Developers
See code metrics and test failures
Commit stage
Compile
Commit tests
Assemble
Code analysis
Acceptance stage
Configure environment
Deploy binaries
Smoke test
Acceptance tests
Capacity stage
Configure environment
Deploy binaries
Smoke test
Run capacity tests
Operations
perform
push-button
releases
Production
Configure environment
Deploy binaries
Smoke test
reports
binaries
metadata
binaries
reports
metadata
binaries
reports
metadata
Artifact repository

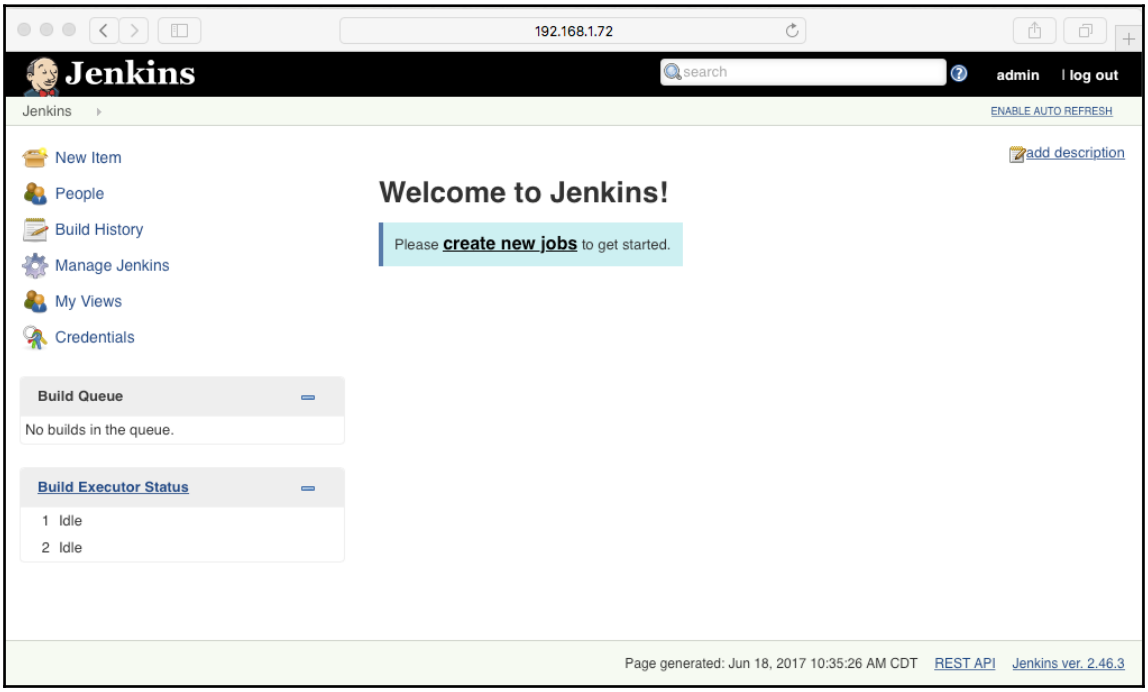

Source Code
Build 1
Acc 1
Source Code
Build 2
Acc 2
Fan Out
Fan In
Build 3
Acc 3
Source Code
Build 4
Acc 4
Package
Env & App Config
Integration
Test Env
Test Env
Test Env
Staging
Production
Build
Test & Release

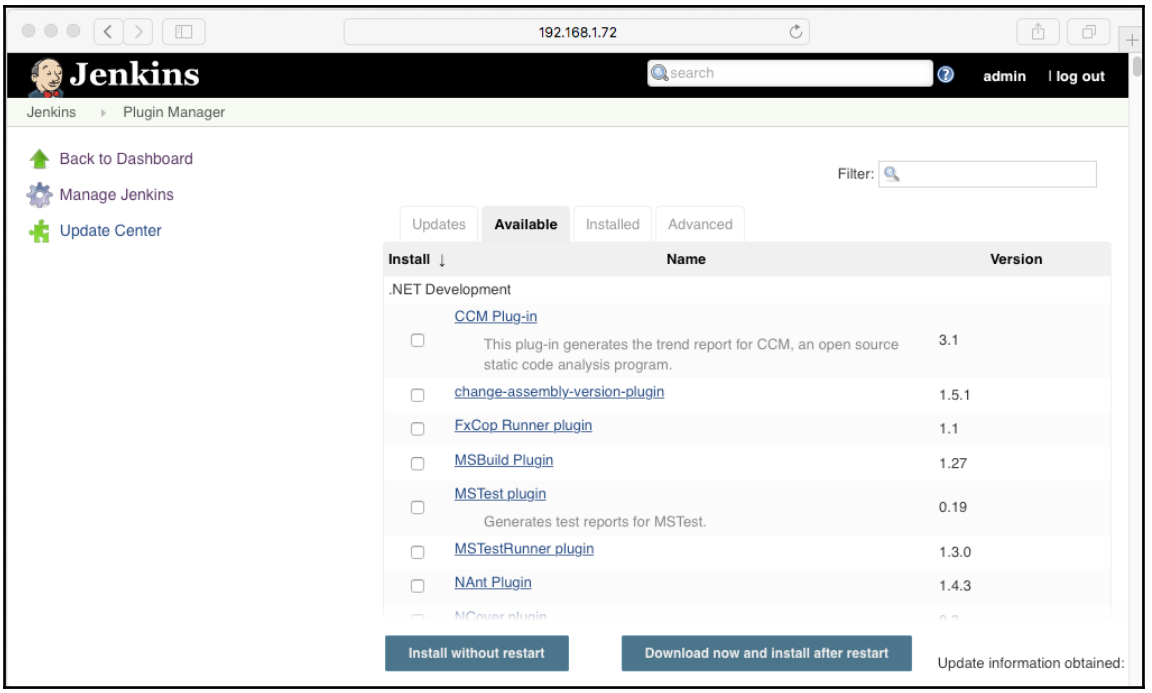

Continuous Delivery Workflow
Team Commits
Continuous Integration
DEPLOY
Quality GATES
Approve?
RELEASE
Feedback
Notify
Feedback
Notify
Feedback

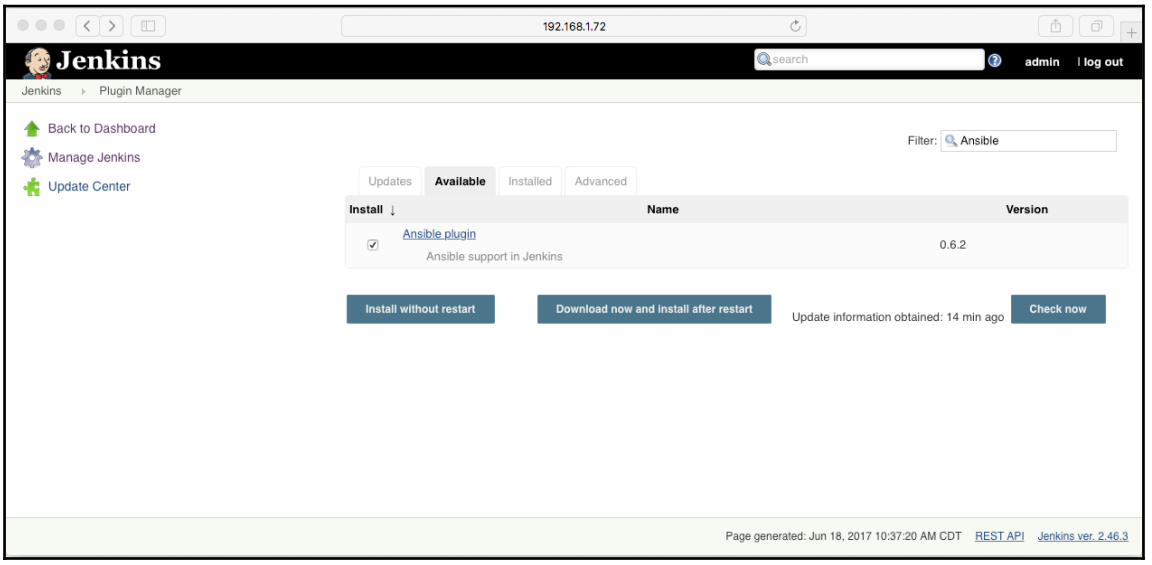

Blue Container
Old connections are maintained
Internet
New connections go to the new container
Green Container (new code)

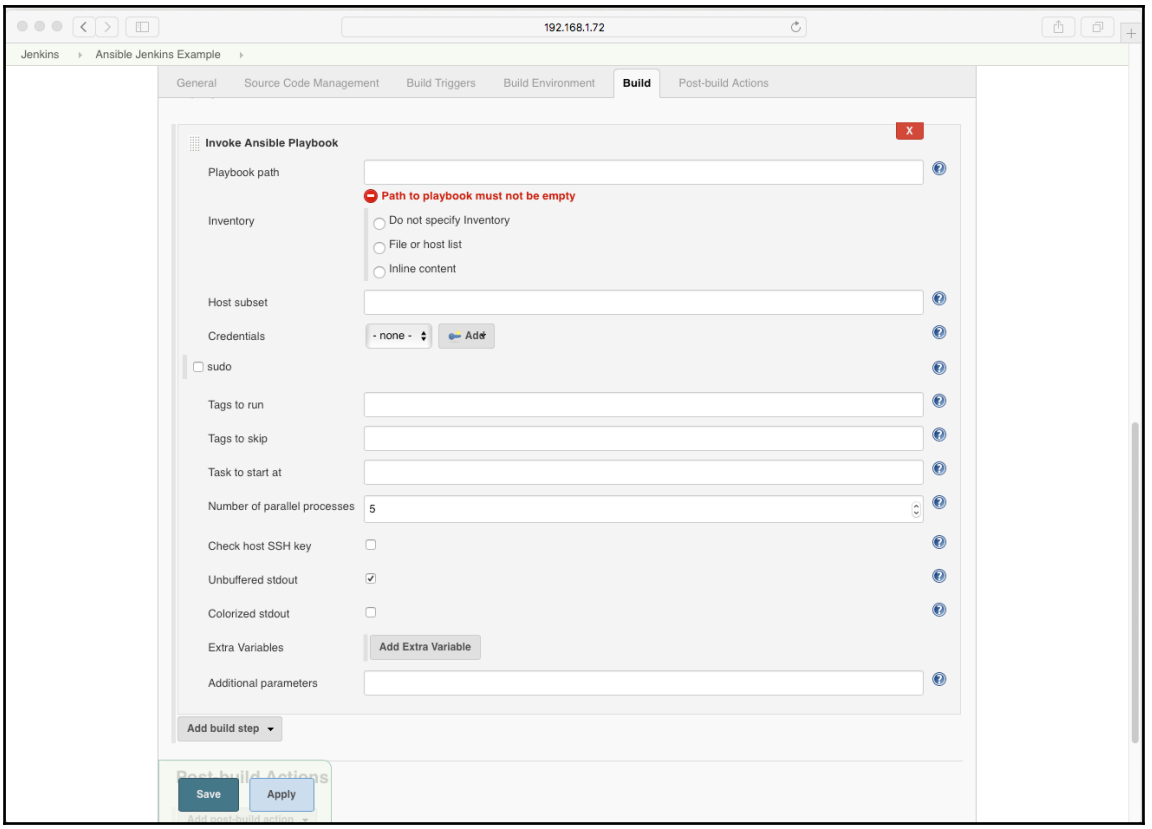

Developer
Source Code
commit
Source Code
Control
System
commit
Developer
Source Code
poll
notify
build
failure
build
success
Continuous Integration
Service
execute
Source Code
Build & Test

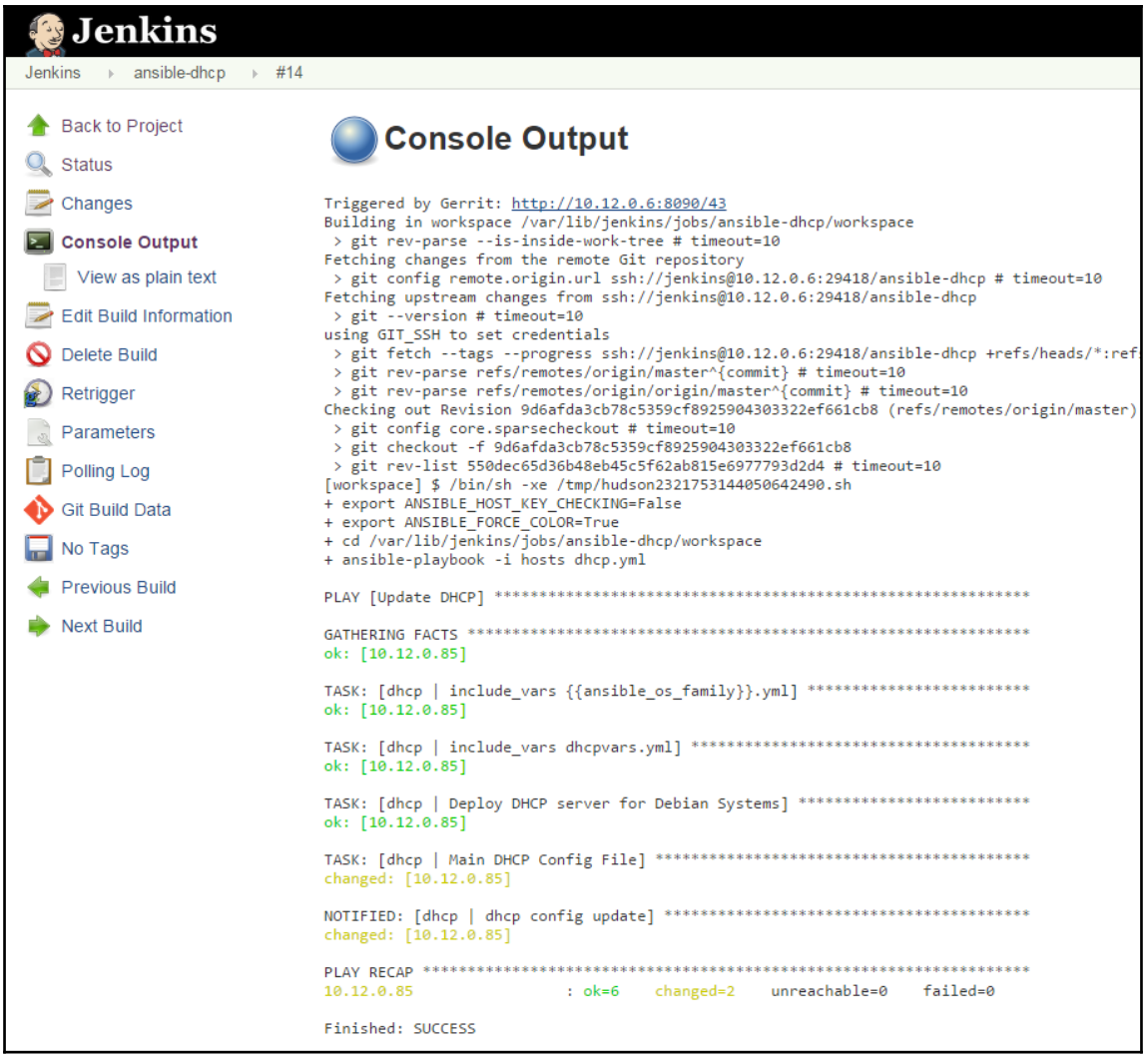

Jenkins Workflow
Start
SCM Commit
Repo & Branch Name
Workflow Start
Development
Stage
SCM Checkout
Collect Dependent Repos
Stage
Build/Launch (Docker)
Parallel
Build/Launch Module 1
...
Build/Launch Module N
Stage
Test
Parallel
Integration Test Module 1
...
Integration Test Dependency N
Smoke Test
End-to-End Test
Test Results
Stage
Deploy
Generate on catch/finally
build-report.html
Workflow End
Production


192.168.1.72
Jenkins
search
admin
log out
Jenkins
ENABLE AUTO REFRESH
New Item
People
Build History
Manage Jenkins
My Views
Credentials
add description
Welcome to Jenkins!
Please create new jobs to get started.
Build Queue
No builds in the queue.
Build Executor Status
1 Idle
2 Idle
Page generated: Jun 18, 2017 10:35:26 AM CDT
REST API
Jenkins ver. 2.46.3

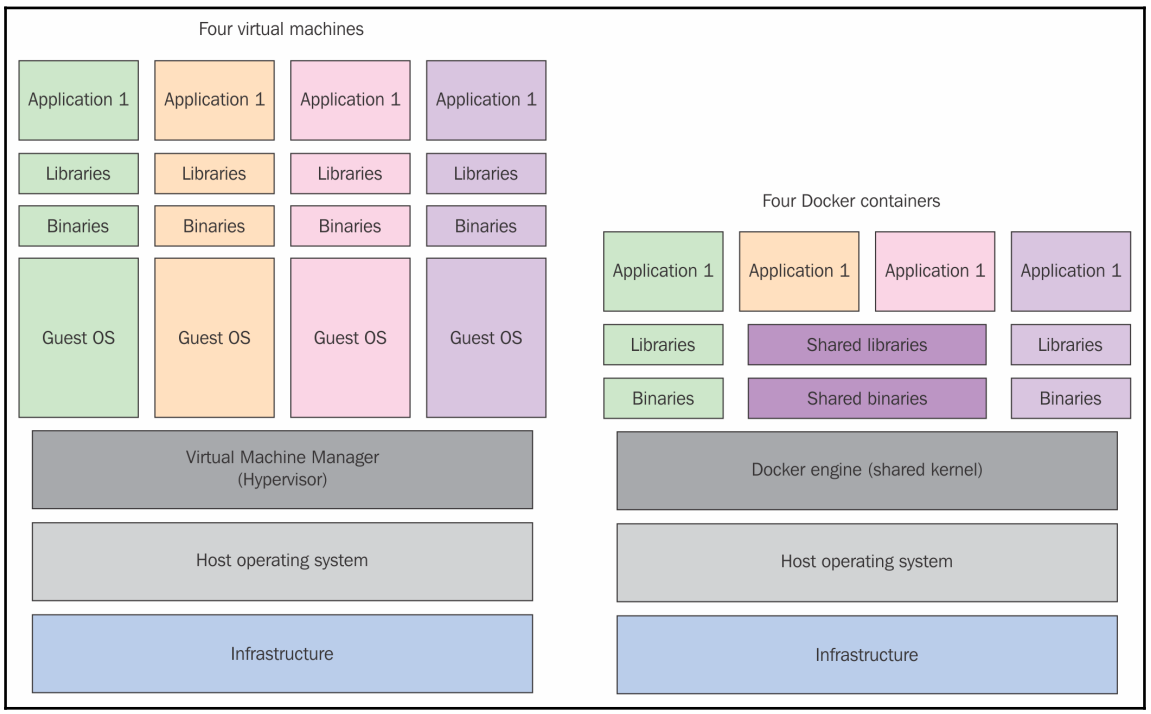

192.168.1.72
Jenkins
search
admin
log out
Jenkins
Plugin Manager
Back to Dashboard
Manage Jenkins
Update Center
Filter:
Updates
Available
Installed
Advanced
Install
Name
Version
.NET Development
CCM Plug-in
This plug-in generates the trend report for CCM, an open source static code analysis program.
3.1
change-assembly-version-plugin
1.5.1
FxCop Runner plugin
1.1
MSBuild Plugin
1.27
MSTest plugin
Generates test reports for MSTest.
0.19
MSTestRunner plugin
1.3.0
NAnt Plugin
1.4.3
Install without restart
Download now and install after restart
Update information obtained:

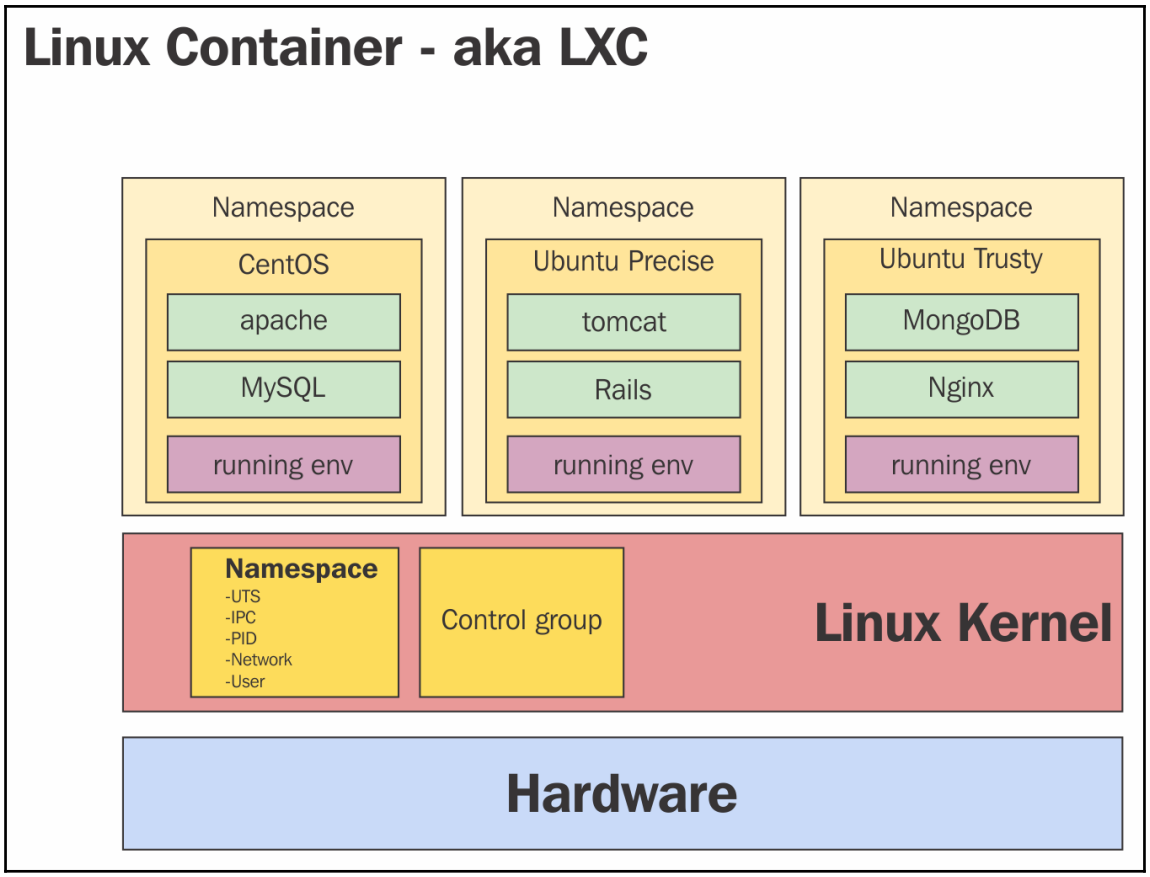

192.168.1.72
Jenkins
search
admin
log out
Jenkins
Plugin Manager
Back to Dashboard
Manage Jenkins
Update Center
Filter:
Ansible
Updates
Available
Installed
Advanced
Install
Name
Version
Ansible plugin
Ansible support in Jenkins
0.6.2
Install without restart
Download now and install after restart
Update information obtained: 14 min ago
Check now
Page generated: Jun 18, 2017 10:37:20 AM CDT
REST API
Jenkins ver. 2.46.3

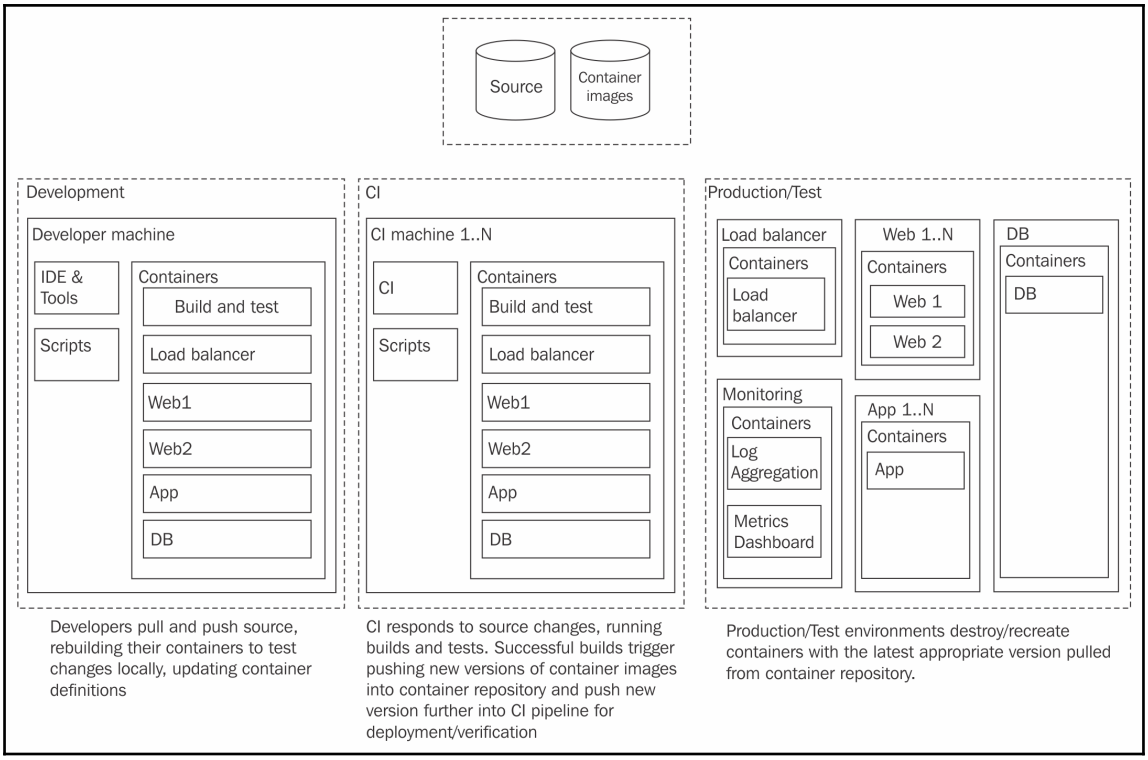

192.168.1.72
Jenkins
Ansible Jenkins Example
General
Source Code Management
Build Triggers
Build Environment
Build
Post-build Actions
Invoke Ansible Playbook
Playbook path
Path to playbook must not be empty
Inventory
Do not specify Inventory
File or host list
Inline content
Host subset
Credentials
- none -
Add
sudo
Tags to run
Tags to skip
Task to start at
Number of parallel processes
5
Check host SSH key
Unbuffered stdout
Colorized stdout
Extra Variables
Add Extra Variable
Additional parameters
Add build step
Save
Apply

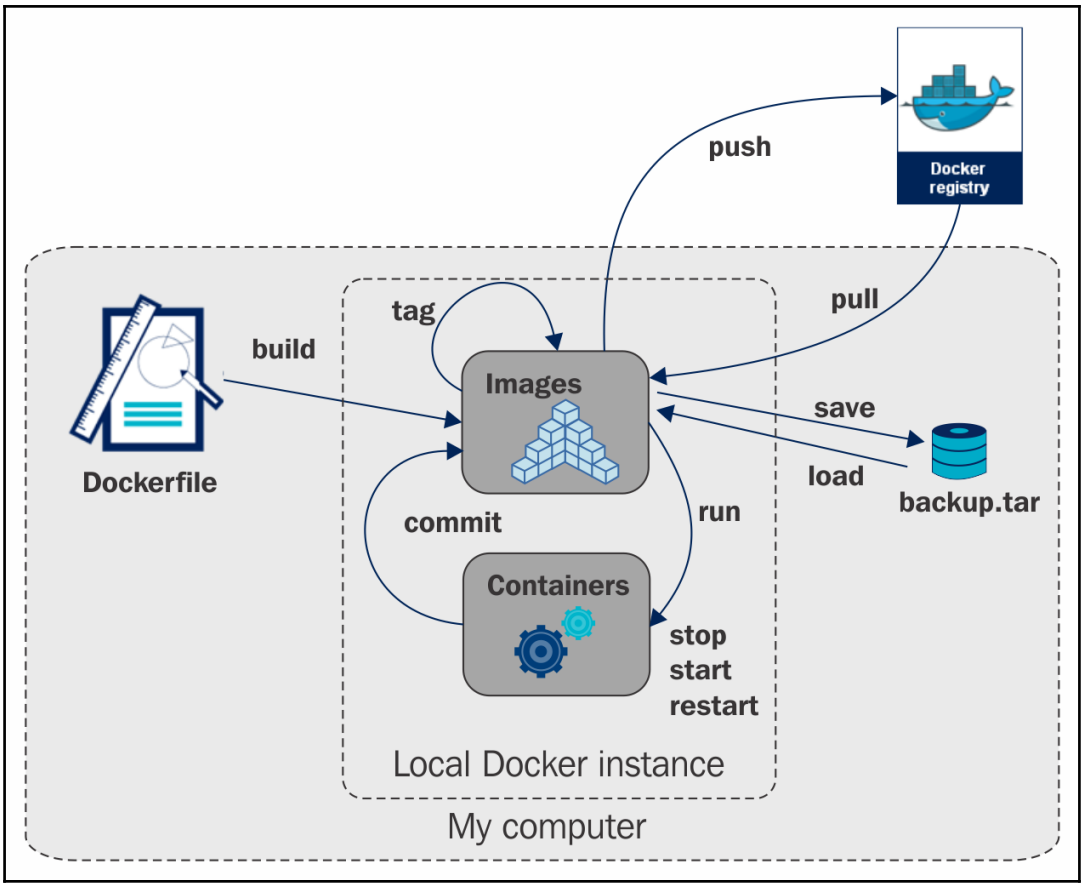

Jenkins
Jenkins ▸ ansible-dhcp ▸ #14
Back to Project
Status
Changes
Console Output
View as plain text
Edit Build Information
Delete Build
Retrigger
Parameters
Polling Log
Git Build Data
No Tags
Previous Build
Next Build
Console Output
Triggered by Gerrit: http://10.12.0.6:8090/43
Building in workspace /var/lib/jenkins/jobs/ansible-dhcp/workspace
> git rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url ssh://jenkins@10.12.0.6:29418/ansible-dhcp # timeout=10
Fetching upstream changes from ssh://jenkins@10.12.0.6:29418/ansible-dhcp
> git --version # timeout=10
using GIT_SSH to set credentials
> git fetch --tags --progress ssh://jenkins@10.12.0.6:29418/ansible-dhcp +refs/heads/*:ref
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> git rev-parse refs/remotes/origin/origin/master^{commit} # timeout=10
Checking out Revision 9d6afda3cb78c5359cf8925904303322ef661cb8 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 9d6afda3cb78c5359cf8925904303322ef661cb8
> git rev-list 550dec65d36b48eb45c5f62ab815e6977793d2d4 # timeout=10
[workspace] $ /bin/sh -xe /tmp/hudson2321753144050642490.sh
+ export ANSIBLE_HOST_KEY_CHECKING=False
+ export ANSIBLE_FORCE_COLOR=True
+ cd /var/lib/jenkins/jobs/ansible-dhcp/workspace
+ ansible-playbook -i hosts dhcp.yml
PLAY [Update DHCP] ***********
GATHERING FACTS ***********
ok: [10.12.0.85]
TASK: [dhcp | include_vars {{ansible_os_family}}.yml] ***********
ok: [10.12.0.85]
TASK: [dhcp | include_vars dhcpvars.yml] ***********
ok: [10.12.0.85]
TASK: [dhcp | Deploy DHCP server for Debian Systems] ***********
ok: [10.12.0.85]
TASK: [dhcp | Main DHCP Config File] ***********
changed: [10.12.0.85]
NOTIFIED: [dhcp | dhcp config update] ***********
changed: [10.12.0.85]
PLAY RECAP ***********
10.12.0.85 : ok=6 changed=2 unreachable=0 failed=0
Finished: SUCCESS

Chapter 11: Ansible and Docker

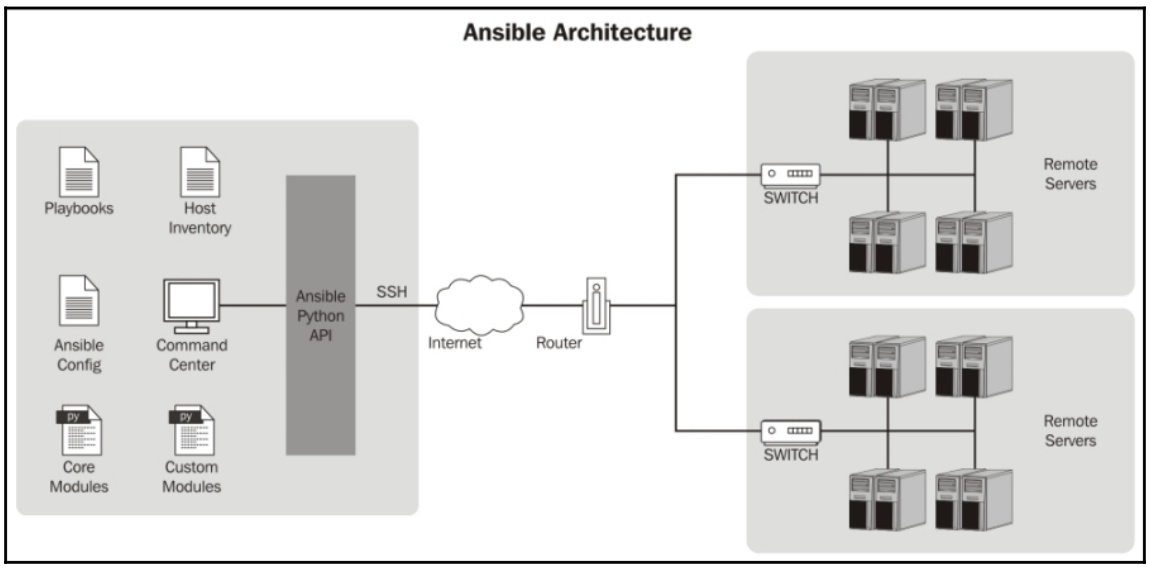


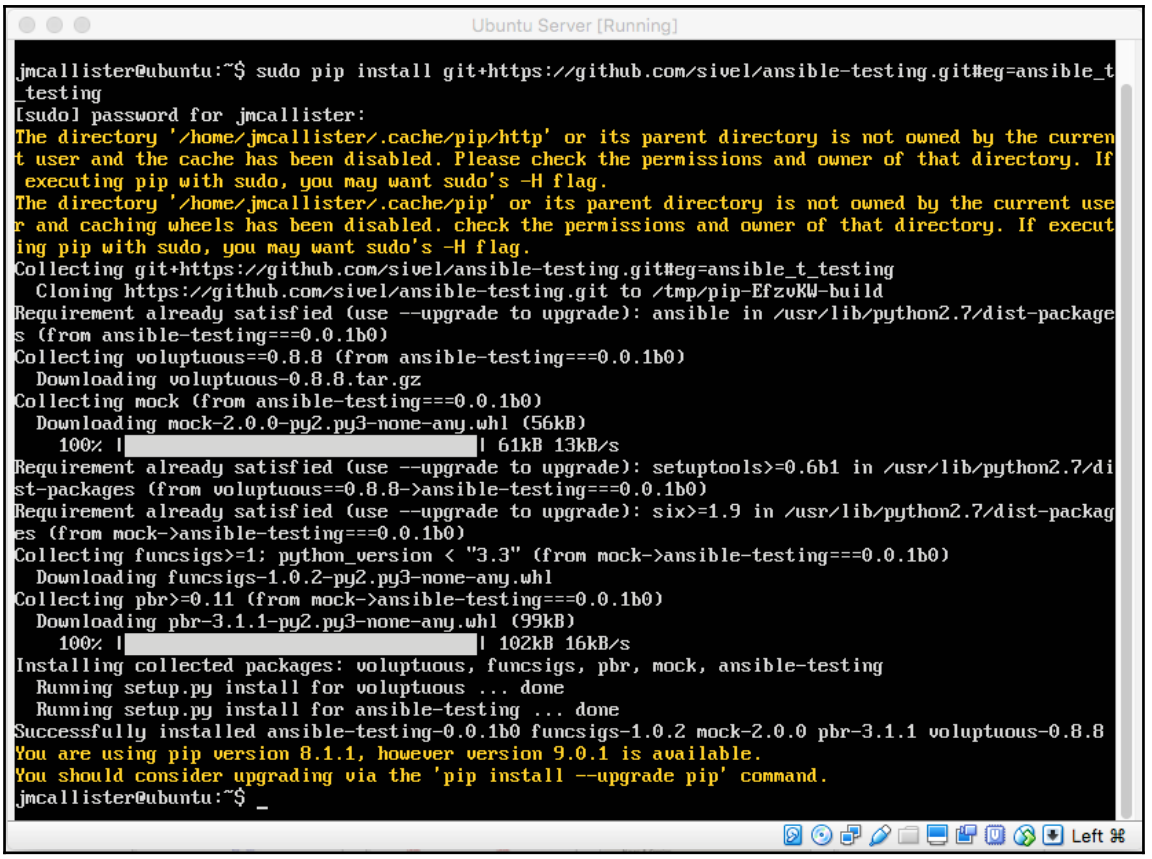

Linux Container - aka LXC
Namespace
CentOS
apache
MySQL
running env
Namespace
Ubuntu Precise
tomcat
Rails
running env
Namespace
Ubuntu Trusty
MongoDB
Nginx
running env
Namespace
-UTS
-IPC
-PID
-Network
-User
Control group
Linux Kernel
Hardware

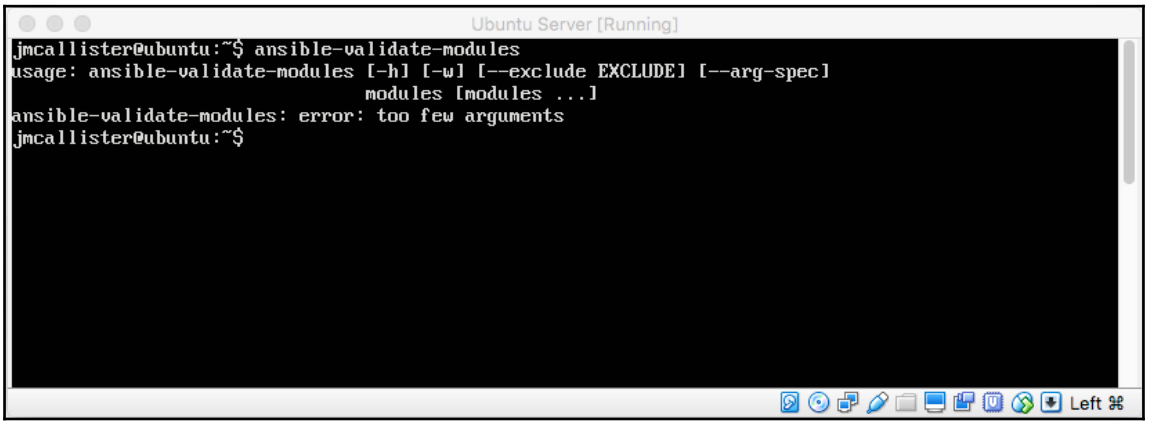

Source
Container images
Development
Developer machine
IDE & Tools
Scripts
Containers
Build and test
Load balancer
Web1
Web2
App
DB
CI
CI machine 1..N
CI
Scripts
Containers
Build and test
Load balancer
Web1
Web2
App
DB
Production/Test
Load balancer
Containers
Load balancer
Web 1..N
Containers
Web 1
Web 2
DB
Containers
DB
Monitoring
Containers
Log Aggregation
Metrics Dashboard
App 1..N
Containers
App
Developers pull and push source, rebuilding their containers to test changes locally, updating container definitions
CI responds to source changes, running builds and tests. Successful builds trigger pushing new versions of container images into container repository and push new version further into CI pipeline for deployment/verification
Production/Test environments destroy/recreate containers with the latest appropriate version pulled from container repository.

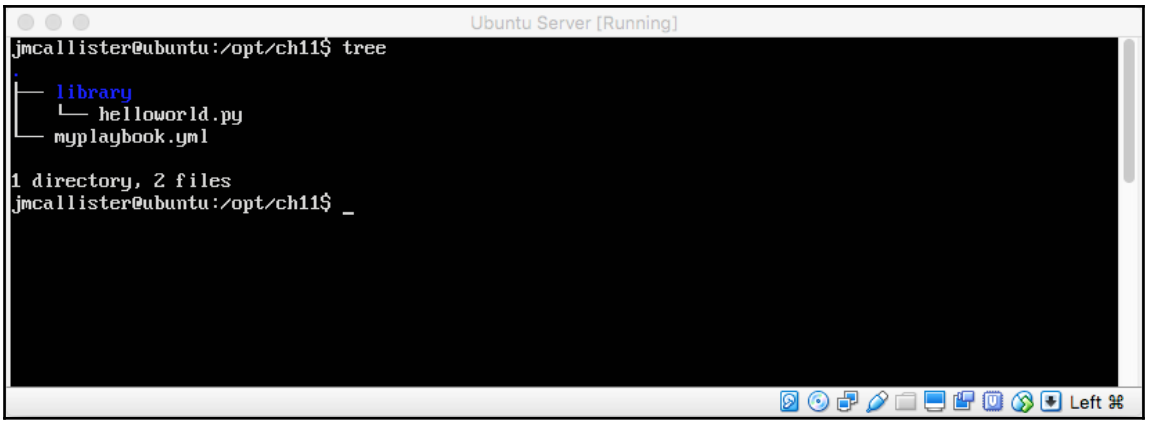

push
Docker registry
pull
tag
build
Images
save
load
backup.tar
Dockerfile
commit
run
Containers
stop
start
restart
Local Docker instance
My computer

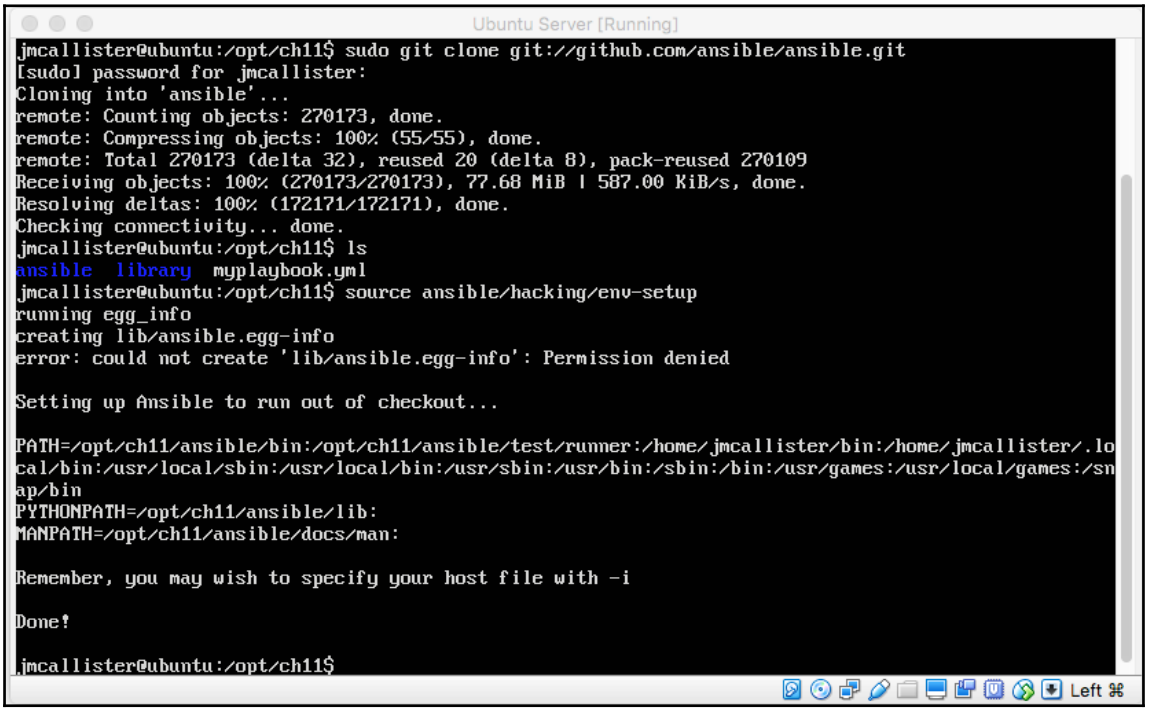
Chapter 12: Extending Ansible

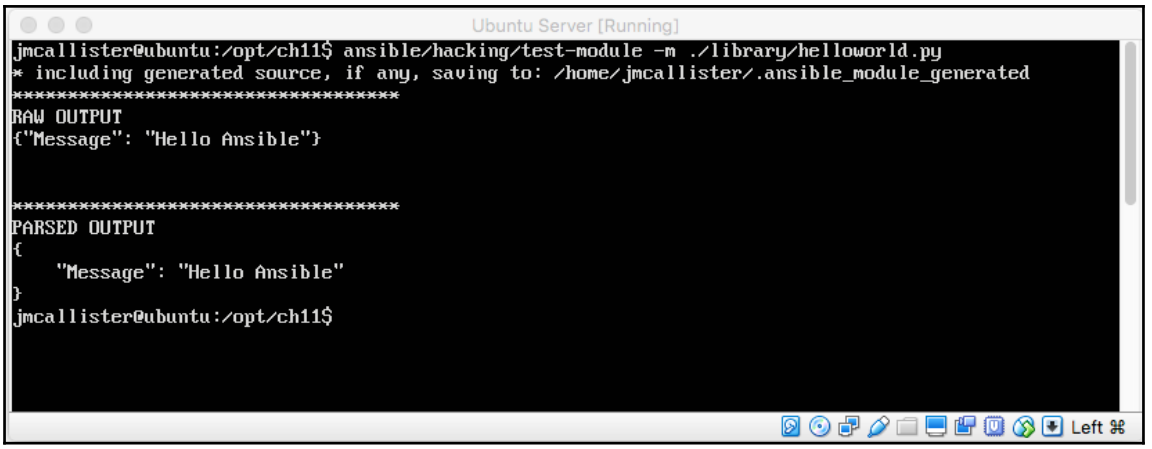


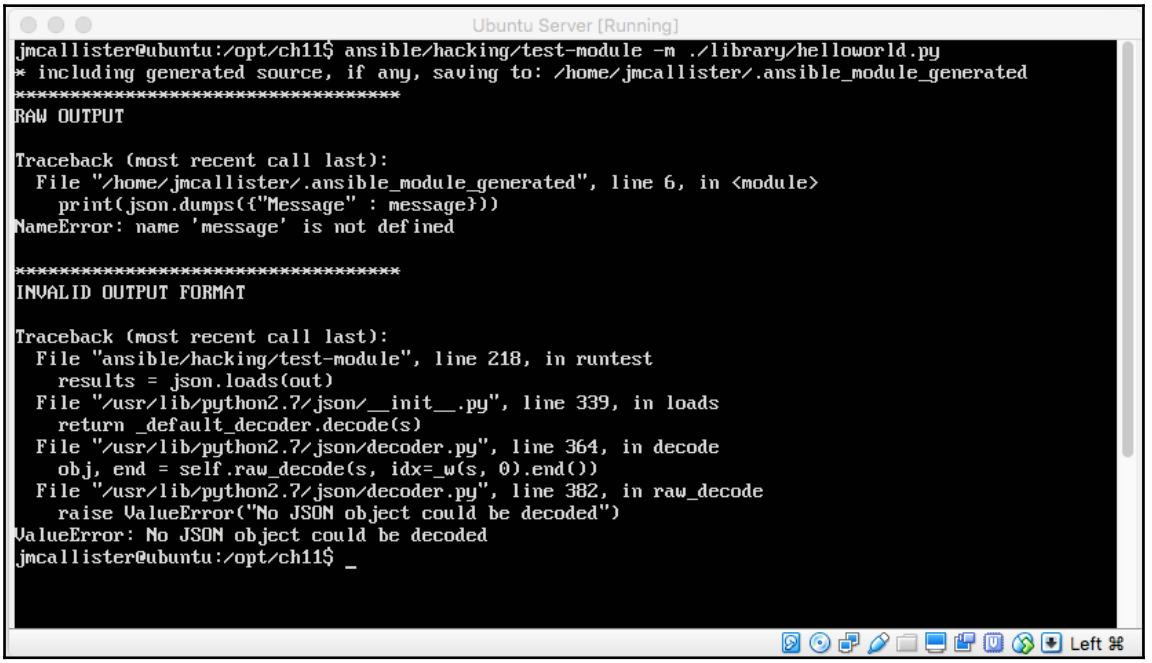

Ubuntu Server [Running]
jmcallister@ubuntu:~$ sudo pip install git+https://github.com/sivel/ansible-testing.git#eg=ansible_t
_testing
[sudo] password for jmcallister:
The directory '/home/jmcallister/.cache/pip/http' or its parent directory is not owned by the curren
t user and the cache has been disabled. Please check the permissions and owner of that directory. If
executing pip with sudo, you may want sudo's -H flag.
The directory '/home/jmcallister/.cache/pip' or its parent directory is not owned by the current use
r and caching wheels has been disabled. check the permissions and owner of that directory. If execut
ing pip with sudo, you may want sudo's -H flag.
Collecting git+https://github.com/sivel/ansible-testing.git#eg=ansible_t_testing
Cloning https://github.com/sivel/ansible-testing.git to /tmp/pip-EfzvKW-build
Requirement already satisfied (use --upgrade to upgrade): ansible in /usr/lib/python2.7/dist-package
s (from ansible-testing===0.0.1b0)
Collecting voluptuous==0.8.8 (from ansible-testing===0.0.1b0)
Downloading voluptuous-0.8.8.tar.gz
Collecting mock (from ansible-testing===0.0.1b0)
Downloading mock-2.0.0-py2.py3-none-any.whl (56kB)
100% | 61kB 13kB/s
Requirement already satisfied (use --upgrade to upgrade): setuptools>=0.6b1 in /usr/lib/python2.7/di
st-packages (from voluptuous==0.8.8->ansible-testing===0.0.1b0)
Requirement already satisfied (use --upgrade to upgrade): six>=1.9 in /usr/lib/python2.7/dist-packag
es (from mock->ansible-testing===0.0.1b0)
Collecting funcsigs>=1; python_version < "3.3" (from mock->ansible-testing===0.0.1b0)
Downloading funcsigs-1.0.2-py2.py3-none-any.whl
Collecting pbr>=0.11 (from mock->ansible-testing===0.0.1b0)
Downloading pbr-3.1.1-py2.py3-none-any.whl (99kB)
100% | 102kB 16kB/s
Installing collected packages: voluptuous, funcsigs, pbr, mock, ansible-testing
Running setup.py install for voluptuous ... done
Running setup.py install for ansible-testing ... done
Successfully installed ansible-testing-0.0.1b0 funcsigs-1.0.2 mock-2.0.0 pbr-3.1.1 voluptuous-0.8.8
You are using pip version 8.1.1, however version 9.0.1 is available.
You should consider upgrading via the 'pip install --upgrade pip' command.
jmcallister@ubuntu:~$
Left ⌘

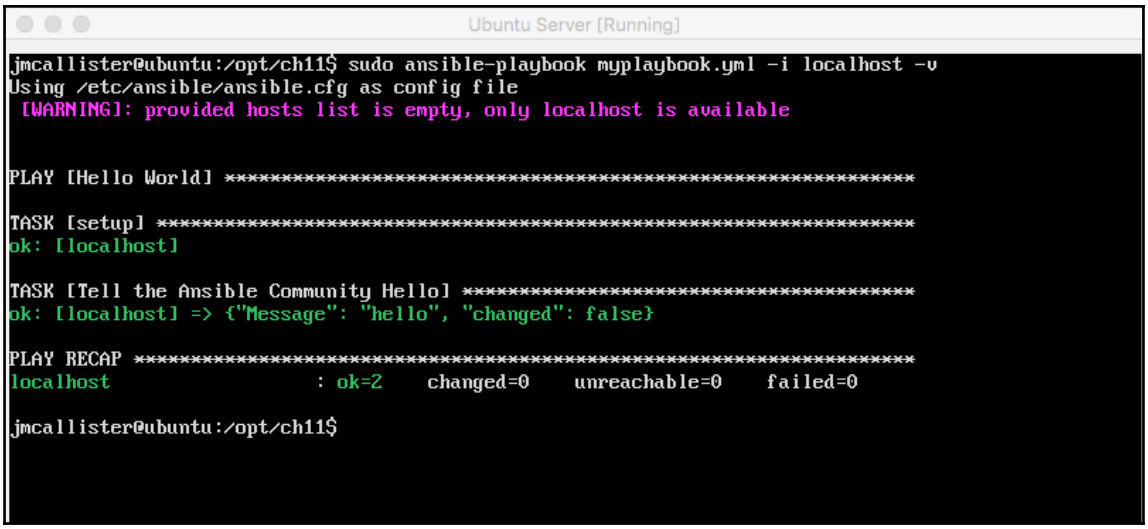

Ubuntu Server [Running]
jmcallister@ubuntu:~$ ansible-validate-modules
usage: ansible-validate-modules [-h] [-w] [--exclude EXCLUDE] [--arg-spec]
modules [modules ...]
ansible-validate-modules: error: too few arguments
jmcallister@ubuntu:~$
Left ⌘


Ubuntu Server [Running]
jmcallister@ubuntu:/opt/ch11$ tree
.
├── library
│   └── helloworld.py
└── myplaybook.yml
1 directory, 2 files
jmcallister@ubuntu:/opt/ch11$ _
Left ⌘


Ubuntu Server [Running]
jmcallister@ubuntu:/opt/ch11$ sudo git clone git://github.com/ansible/ansible.git
[sudo] password for jmcallister:
Cloning into 'ansible'...
remote: Counting objects: 270173, done.
remote: Compressing objects: 100% (55/55), done.
remote: Total 270173 (delta 32), reused 20 (delta 8), pack-reused 270109
Receiving objects: 100% (270173/270173), 77.68 MiB | 587.00 KiB/s, done.
Resolving deltas: 100% (172171/172171), done.
Checking connectivity... done.
jmcallister@ubuntu:/opt/ch11$ ls
ansible library myplaybook.yml
jmcallister@ubuntu:/opt/ch11$ source ansible/hacking/env-setup
running egg_info
creating lib/ansible.egg-info
error: could not create 'lib/ansible.egg-info': Permission denied
Setting up Ansible to run out of checkout...
PATH=/opt/ch11/ansible/bin:/opt/ch11/ansible/test/runner:/home/jmcallister/bin:/home/jmcallister/.lo
cal/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/sn
ap/bin
PYTHONPATH=/opt/ch11/ansible/lib:
MANPATH=/opt/ch11/ansible/docs/man:
Remember, you may wish to specify your host file with -i
Done!
jmcallister@ubuntu:/opt/ch11$
Left ⌘


Ubuntu Server [Running]
jmcallister@ubuntu:/opt/ch11$ ansible/hacking/test-module -m ./library/helloworld.py
* including generated source, if any, saving to: /home/jmcallister/.ansible_module_generated
****
RAW OUTPUT
{"Message": "Hello Ansible"}
****
PARSED OUTPUT
{
"Message": "Hello Ansible"
}
jmcallister@ubuntu:/opt/ch11$
Left ⌘


Ubuntu Server [Running]
jmcallister@ubuntu:/opt/ch11$ ansible/hacking/test-module -m ./library/helloworld.py
* including generated source, if any, saving to: /home/jmcallister/.ansible_module_generated
****
RAW OUTPUT
Traceback (most recent call last):
File "/home/jmcallister/.ansible_module_generated", line 6, in <module>
print(json.dumps({"Message" : message}))
NameError: name 'message' is not defined
****
INVALID OUTPUT FORMAT
Traceback (most recent call last):
File "ansible/hacking/test-module", line 218, in runtest
results = json.loads(out)
File "/usr/lib/python2.7/json/__init__.py", line 339, in loads
return _default_decoder.decode(s)
File "/usr/lib/python2.7/json/decoder.py", line 364, in decode
obj, end = self.raw_decode(s, idx=_w(s, 0).end())
File "/usr/lib/python2.7/json/decoder.py", line 382, in raw_decode
raise ValueError("No JSON object could be decoded")
ValueError: No JSON object could be decoded
jmcallister@ubuntu:/opt/ch11$
Left ⌘


Ubuntu Server [Running]
jmcallister@ubuntu:/opt/ch11$ sudo ansible-playbook myplaybook.yml -i localhost -v
Using /etc/ansible/ansible.cfg as config file
[WARNING]: provided hosts list is empty, only localhost is available
PLAY [Hello World] ***
TASK [setup] ***
ok: [localhost]
TASK [Tell the Ansible Community Hello] **************************************
ok: [localhost] => {"Message": "hello", "changed": false}
PLAY RECAP ***
localhost : ok=2 changed=0 unreachable=0 failed=0
jmcallister@ubuntu:/opt/ch11$