code <<-EOH

mkdir /opt/tomcat

tar -zxvf apache-tomcat-8.5.37.tar.gz -C /opt/tomcat --strip-components=1

EOH

# not\_if { ::File.exist?(extract\_patj) }

end

=end

execute 'creating mkdir' do

command 'mkdir /opt/tomcat'

end

execute 'run tar' do

command 'tar -zxvf apache-tomcat-8.5.37.tar.gz -C /opt/tomcat --strip-components=1'

end

#Downloading the war file

remote\_file '/opt/tomcat/conf/webapps/benefits.war' do

source 'https://www.oracle.com/webfolder/technetwork/tutorials/obe/fmw/wls/12c/03-DeployApps/files

end

#Executing the startup script

execute 'run startup script' do

command '/opt/tomcat/conf/startup.txt'

end

[root@workstation recipes]# vi automatetomcat2.rb

[root@workstation recipes]# clear

[root@workstation recipes]# pwd

/root/chef-repo/cookbooks/cookbook1/recipes

[root@workstation recipes]# cat /root/rb/tomcatreceipe2.rb

package "tomcat" do

action :install

end

service "tomcat" do

action :start

end

#cookbook\_file '/usr/hare/tomcat/webpages' do

# source 'benefits.war'

# action :create

#end

remote\_file '/usr/share/tomcat/webapps/benefits.war' do

source 'https://www.oracle.com/webfolder/technetwork/tutorials/obe/fmw/wls/12c/03-DeployApps/files/benefits.war'

end

[root@workstation recipes]#

[root@workstation recipes]#

[root@workstation recipes]# vi installtomcat.rb

[root@workstation recipes]# vi runtomcat.rb

[root@workstation recipes]# vi deploywar.rb

[root@workstation recipes]# cat installtomcat.rb

package "tomcat" do

action :install

end

[root@workstation recipes]# cat runtomcat.rb

service "tomcat" do

action :start

end

[root@workstation recipes]# cat installtomcat.rb

package "tomcat" do

action :install

end

[root@workstation recipes]# ls

automatetomcat2.rb deploywar.rb mixedosrecipe.rb

automatetomcat.rb installtomcat.rb runtomcat.rb

[root@workstation recipes]# cat pwd

cat: pwd: No such file or directory

[root@workstation recipes]# pwd

/root/chef-repo/cookbooks/cookbook1/recipes

[root@workstation recipes]# cat automatetomcat.rb

#package "java" do

# action :install

#end

remote\_file '/opt/apache-tomcat-8.0.33.tar.gz' do

source 'http://www-us.apache.org/dist/tomcat/tomcat-8/v8.0.33/bin/apache-tomcat-8.0.33.tar.gz'

end

=begin

script 'extract\_module' do

interpreter "bash"

cwd ::File.dirname(/var)

code <<-EOH

mkdir /opt/tomcat

tar -zxvf apache-tomcat-8.5.37.tar.gz -C /opt/tomcat --strip-components=1

EOH

# not\_if { ::File.exist?(extract\_patj) }

end

=end

#Downloading the war file

remote\_file '/opt/tomcat/conf/webapps/benefits.war' do

source 'https://www.oracle.com/webfolder/technetwork/tutorials/obe/fmw/wls/12c/03-DeployApps/files/benefits.war'

end

#Executing the startup script

execute 'run startup script' do

command '/opt/tomcat/conf/startup.txt'

end

[root@workstation recipes]# cat automatetomcat2.rb

=begin

#install java

#package "java" do

# action :install

#end

=end

remote\_file '/opt/apache-tomcat-8.0.33.tar.gz' do

source 'http://www-us.apache.org/dist/tomcat/tomcat-8/v8.0.33/bin/apache-tomcat-8.0.33.tar.gz'

end

=begin

script 'extract\_module' do

interpreter "bash"

cwd ::File.dirname(/var)

code <<-EOH

mkdir /opt/tomcat

tar -zxvf apache-tomcat-8.5.37.tar.gz -C /opt/tomcat --strip-components=1

EOH

# not\_if { ::File.exist?(extract\_patj) }

end

=end

execute 'creating mkdir' do

command 'mkdir /opt/tomcat'

end

execute 'run tar' do

command 'tar -zxvf apache-tomcat-8.5.37.tar.gz -C /opt/tomcat --strip-components=1'

end

#Downloading the war file

remote\_file '/opt/tomcat/conf/webapps/benefits.war' do

source 'https://www.oracle.com/webfolder/technetwork/tutorials/obe/fmw/wls/12c/03-DeployApps/files/benefits.war'

end

#Executing the startup script

execute 'run startup script' do

command '/opt/tomcat/conf/startup.txt'

end

[root@workstation recipes]#

[root@workstation recipes]#

[root@workstation recipes]# vi automatetomcat2.rb

[root@workstation recipes]#

[root@workstation recipes]# cat automatetomcat2.rb

=begin

#install java

#package "java" do

# action :install

#end

=end

remote\_file '/opt/apache-tomcat-8.0.33.tar.gz' do

source 'http://www-us.apache.org/dist/tomcat/tomcat-8/v8.0.33/bin/apache-tomcat-8.0.33.tar.gz'

end

=begin

script 'extract\_module' do

interpreter "bash"

cwd ::File.dirname(/var)

code <<-EOH

mkdir /opt/tomcat

tar -zxvf apache-tomcat-8.5.37.tar.gz -C /opt/tomcat --strip-components=1

EOH

# not\_if { ::File.exist?(extract\_patj) }

end

=end

execute 'creating mkdir' do

command 'mkdir /opt/tomcat'

end

execute 'run tar' do

command 'tar -zxvf apache-tomcat-8.5.37.tar.gz -C /opt/tomcat --strip-components=1'

end

#Downloading the war file

remote\_file '/opt/tomcat/conf/webapps/benefits.war' do

source 'https://www.oracle.com/webfolder/technetwork/tutorials/obe/fmw/wls/12c/03-DeployApps/files/benefits.war'

end

#Executing the startup script

execute 'run startup script' do

command '/opt/tomcat/conf/startup.txt'

end

[root@workstation recipes]# vi automatetomcat2.rb

[root@workstation recipes]# ls -lrt

total 24

-rw-r--r--. 1 root root 261 Dec 22 01:53 mixedosrecipe.rb

-rw-r--r--. 1 root root 759 Dec 22 04:02 automatetomcat.rb

-rw-r--r--. 1 root root 43 Dec 22 04:14 installtomcat.rb

-rw-r--r--. 1 root root 41 Dec 22 04:15 runtomcat.rb

-rw-r--r--. 1 root root 175 Dec 22 04:15 deploywar.rb

-rw-r--r--. 1 root root 977 Dec 22 04:28 automatetomcat2.rb

[root@workstation recipes]# yum install tree

Loaded plugins: amazon-id, rhui-lb, search-disabled-repos

rhui-REGION-client-config-server-7 | 2.9 kB 00:00:00

rhui-REGION-rhel-server-releases | 3.5 kB 00:00:00

rhui-REGION-rhel-server-rh-common | 3.8 kB 00:00:00

Resolving Dependencies

--> Running transaction check

---> Package tree.x86\_64 0:1.6.0-10.el7 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

===================================================================================================

Package Arch Version Repository Size

===================================================================================================

Installing:

tree x86\_64 1.6.0-10.el7 rhui-REGION-rhel-server-releases 46 k

Transaction Summary

===================================================================================================

Install 1 Package

Total download size: 46 k

Installed size: 87 k

Is this ok [y/d/N]: y

Downloading packages:

tree-1.6.0-10.el7.x86\_64.rpm | 46 kB 00:00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Warning: RPMDB altered outside of yum.

Installing : tree-1.6.0-10.el7.x86\_64 1/1

Verifying : tree-1.6.0-10.el7.x86\_64 1/1

Installed:

tree.x86\_64 0:1.6.0-10.el7

Complete!

[root@workstation recipes]# pwd

/root/chef-repo/cookbooks/cookbook1/recipes

[root@workstation recipes]# cd ../..

[root@workstation cookbooks]# tree

.

├── chefignore

├── cookbook1

│   ├── automatetomcat.rb

│   ├── Berksfile

│   ├── CHANGELOG.md

│   ├── chefignore

│   ├── files

│   │   ├── benefits.war

│   │   └── index.html

│   ├── LICENSE

│   ├── metadata.rb

│   ├── README.md

│   ├── recipes

│   │   ├── automatetomcat2.rb

│   │   ├── automatetomcat.rb

│   │   ├── deploywar.rb

│   │   ├── installtomcat.rb

│   │   ├── mixedosrecipe.rb

│   │   └── runtomcat.rb

│   ├── spec

│   │   ├── spec\_helper.rb

│   │   └── unit

│   │   └── recipes

│   │   └── default\_spec.rb

│   └── test

│   └── integration

│   └── default

│   └── default\_test.rb

└── starter

├── attributes

│   └── default.rb

├── files

│   └── default

│   └── sample.txt

├── metadata.rb

├── recipes

│   └── default.rb

└── templates

└── default

└── sample.erb

16 directories, 24 files

[root@workstation cookbooks]#

[root@workstation cookbooks]# pwd

/root/chef-repo/cookbooks

[root@workstation cookbooks]# cd ..

[root@workstation chef-repo]# ls -lrt

total 8

drwxr-xr-x. 2 root root 24 Dec 18 02:33 roles

-rw-r--r--. 1 root root 2341 Dec 18 02:33 README.md

drwxr-xr-x. 4 root root 56 Dec 18 03:05 cookbooks

-rw-r--r--. 1 root root 40 Dec 19 03:13 index.html

[root@workstation chef-repo]# cd roles/

[root@workstation roles]# ls

starter.rb

[root@workstation roles]# knife role list

[root@workstation roles]# To creaete a role

-bash: To: command not found

[root@workstation roles]# knife role create rol1

ERROR: RuntimeError: Please set EDITOR environment variable. See https://docs.chef.io/knife\_setup.html for details.

[root@workstation roles]#

[root@workstation roles]# knife role create tomcat\_role ^C

[root@workstation roles]# set EDITOR=vi

[root@workstation roles]# set EDITOR=vi

[root@workstation roles]# knife role create tomcat\_role

ERROR: RuntimeError: Please set EDITOR environment variable. See https://docs.chef.io/knife\_setup.html for details.

[root@workstation roles]# set vi=EDITOR

[root@workstation roles]# knife role create tomcat\_role

ERROR: RuntimeError: Please set EDITOR environment variable. See https://docs.chef.io/knife\_setup.html for details.

[root@workstation roles]# export EDITOR=$(which vi)

[root@workstation roles]# knife role create tomcat\_role

Created role[tomcat\_role]

[root@workstation roles]# which vi

/bin/vi

[root@workstation roles]# pwd

/root/chef-repo/roles

[root@workstation roles]# knife role list

tomcat\_role

[root@workstation roles]# ls -lrt

total 4

-rw-r--r--. 1 root root 135 Dec 18 02:33 starter.rb

[root@workstation roles]# pwd

/root/chef-repo/roles

[root@workstation roles]# knife role edit tomcat\_role

Saved role[tomcat\_role]

[root@workstation roles]# knife role list

tomcat\_role

[root@workstation roles]#

[root@workstation roles]# knife role edit tomcat\_role

Object unchanged, not saving

[root@workstation roles]#

[root@workstation roles]# knife role list

tomcat\_role

[root@workstation roles]# knife role edit tomcat\_role

Object unchanged, not saving

[root@workstation roles]# to add a role to runlist

-bash: to: command not found

[root@workstation roles]# knife cookbook upload cookbook1

Uploading cookbook1 [0.1.0]

Uploaded 1 cookbook.

[root@workstation roles]# pwd

/root/chef-repo/roles

[root@workstation roles]# cd ../cookbooks/cookbook1/

[root@workstation cookbook1]# ls

automatetomcat.rb CHANGELOG.md files metadata.rb recipes test

Berksfile chefignore LICENSE README.md spec

[root@workstation cookbook1]# cd recipes/

[root@workstation recipes]# ls

automatetomcat2.rb deploywar.rb mixedosrecipe.rb

automatetomcat.rb installtomcat.rb runtomcat.rb

[root@workstation recipes]# cd /tmp/pra

[root@workstation pra]# ls

benefits.war chef-starter.zip new.pem redhat1\_key.pem

[root@workstation pra]# vi ansi\_key.pem

[root@workstation pra]# ls -lrt

total 52

-rw-r--r--. 1 ec2-user ec2-user 7830 Dec 18 02:42 chef-starter.zip

-rw-r--r--. 1 ec2-user ec2-user 1696 Dec 18 02:42 redhat1\_key.pem

-rw-r--r--. 1 ec2-user ec2-user 30619 Dec 20 02:53 benefits.war

-rw-r--r--. 1 ec2-user ec2-user 1692 Dec 20 02:53 new.pem

-rw-r--r--. 1 root root 1675 Dec 22 05:08 ansi\_key.pem

[root@workstation pra]#

[root@workstation pra]#

[root@workstation pra]# knife bootstrap 18.216.229.129 --ssh-user ec2-user --sudo --identity-file `pwd` -N "kavya\_node"

WARNING: No knife configuration file found. See https://docs.chef.io/config\_rb\_knife.html for details.

WARN: Failed to read the private key /etc/chef/client.pem: #<Errno::ENOENT: No such file or directory @ rb\_sysopen - /etc/chef/client.pem>

ERROR: Your private key could not be loaded from /etc/chef/client.pem

Check your configuration file and ensure that your private key is readable

[root@workstation pra]# pwd

/tmp/pra

[root@workstation pra]# cd /root/chef-repo/

[root@workstation chef-repo]# knife bootstrap 18.216.229.129 --ssh-user ec2-user --sudo --identity-file /tmp/pra -N "kavya\_node"

Creating new client for kavya\_node

Creating new node for kavya\_node

Connecting to **18.216.229.129**

#<Thread:0x00000000078de440@/opt/chefdk/embedded/lib/ruby/gems/2.5.0/gems/logging-2.2.2/lib/logging/diagnostic\_context.rb:471 run> terminated with exception (report\_on\_exception is true):

**Traceback** (most recent call last):

5: from /opt/chefdk/embedded/lib/ruby/gems/2.5.0/gems/logging-2.2.2/lib/logging/diagnostic\_context.rb:474:in `block in create\_with\_logging\_context'

4: from /opt/chefdk/embedded/lib/ruby/gems/2.5.0/gems/net-ssh-multi-1.2.1/lib/net/ssh/multi/session\_actions.rb:36:in `block (2 levels) in sessions'

3: from /opt/chefdk/embedded/lib/ruby/gems/2.5.0/gems/net-ssh-multi-1.2.1/lib/net/ssh/multi/server.rb:138:in `session'

2: from /opt/chefdk/embedded/lib/ruby/gems/2.5.0/gems/net-ssh-multi-1.2.1/lib/net/ssh/multi/session.rb:488:in `next\_session'

1: from /opt/chefdk/embedded/lib/ruby/gems/2.5.0/gems/net-ssh-multi-1.2.1/lib/net/ssh/multi/server.rb:182:in `new\_session'

/opt/chefdk/embedded/lib/ruby/gems/2.5.0/gems/net-ssh-multi-1.2.1/lib/net/ssh/multi/server.rb:194:in `rescue in new\_session': **Authentication failed for user ec2-user@18.216.229.129@18.216.229.129 (Net::SSH::AuthenticationFailed)**

Failed to authenticate ec2-user - trying password auth

[root@workstation chef-repo]# knife bootstrap 18.216.229.129 --ssh-user ec2-user --sudo --identity-file /tmp/pra/ansi\_key.pem -N "kavya\_node"

Node kavya\_node exists, overwrite it? (Y/N) Y

Client kavya\_node exists, overwrite it? (Y/N) Y

Creating new client for kavya\_node

Creating new node for kavya\_node

Connecting to **18.216.229.129**

18.216.229.129 -----> Existing Chef installation detected

18.216.229.129 Starting the first Chef Client run...

18.216.229.129 Starting Chef Client, version 14.8.12

18.216.229.129 resolving cookbooks for run list: []

18.216.229.129 Synchronizing Cookbooks:

18.216.229.129 Installing Cookbook Gems:

18.216.229.129 Compiling Cookbooks...

18.216.229.129 [2018-12-22T05:13:02+00:00] WARN: Node kavya\_node has an empty run list.

18.216.229.129 Converging 0 resources

18.216.229.129

18.216.229.129 Running handlers:

18.216.229.129 Running handlers complete

18.216.229.129 Chef Client finished, 0/0 resources updated in 02 seconds

[root@workstation chef-repo]#

[root@workstation chef-repo]#

[root@workstation chef-repo]# knife node list

kavya\_node

node1

[root@workstation chef-repo]#

[root@workstation chef-repo]#

[root@workstation chef-repo]# knife environment create dev

Created dev

[root@workstation chef-repo]#

[root@workstation chef-repo]# knife environment create test

Created test

[root@workstation chef-repo]# knife environment list

\_default

dev

test

[root@workstation chef-repo]# knife node edit node1

Node not updated, skipping node save

[root@workstation chef-repo]# knife node edit node1

Saving updated chef\_environment on node node1

[root@workstation chef-repo]# knife node edit kavya\_node

Saving updated chef\_environment on node kavya\_node

[root@workstation chef-repo]# knife node edit kavya\_node

Node not updated, skipping node save

[root@workstation chef-repo]#

[root@workstation chef-repo]#

[root@workstation chef-repo]# knife role list

tomcat\_role

[root@workstation chef-repo]# knife role edit tomcat\_role

Saved role[tomcat\_role]

[root@workstation chef-repo]#

[root@workstation chef-repo]# knife role edit tomcat\_role

Object unchanged, not saving

[root@workstation chef-repo]# edited env\_run\_list

-bash: edited: command not found

[root@workstation chef-repo]#

[root@workstation chef-repo]#

[root@workstation chef-repo]# edited env\_run\_list in tomcat\_role

-bash: edited: command not found

[root@workstation chef-repo]#

[root@workstation chef-repo]#

[root@workstation chef-repo]# knife role edit tomcat\_role

Object unchanged, not saving

[root@workstation chef-repo]# even though the deploy is present in genereal runlist

-bash: even: command not found

[root@workstation chef-repo]# its not picking because its not present in environemnt runlist

-bash: its: command not found

[root@workstation chef-repo]#

[root@workstation chef-repo]# knife role edit tomcat\_role

Object unchanged, not saving

[root@workstation chef-repo]# aws

-bash: aws: command not found

[root@workstation chef-repo]# yum install aws-cli

Loaded plugins: amazon-id, rhui-lb, search-disabled-repos

No package **aws-cli** available.

Error: Nothing to do

[root@workstation chef-repo]# pip --version

-bash: pip: command not found

[root@workstation chef-repo]# curl -O https://bootstrap.pypa.io/get-pip.py

% Total % Received % Xferd Average Speed Time Time Time Current

Dload Upload Total Spent Left Speed

100 1622k 100 1622k 0 0 5440k 0 --:--:-- --:--:-- --:--:-- 5445k

[root@workstation chef-repo]# pip --version

-bash: pip: command not found

[root@workstation chef-repo]# python get-pip.py --user

Collecting pip

Downloading https://files.pythonhosted.org/packages/c2/d7/90f34cb0d83a6c5631cf71dfe64cc1054598c843a92b400e55675cc2ac37/pip-18.1-py2.py3-none-any.whl (1.3MB)

100% |████████████████████████████████| 1.3MB 18.8MB/s

Collecting wheel

Downloading https://files.pythonhosted.org/packages/ff/47/1dfa4795e24fd6f93d5d58602dd716c3f101cfd5a77cd9acbe519b44a0a9/wheel-0.32.3-py2.py3-none-any.whl

Installing collected packages: pip, wheel

The script wheel is installed in '/root/.local/bin' which is not on PATH.

Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.

Successfully installed pip-18.1 wheel-0.32.3

[root@workstation chef-repo]#

[root@workstation chef-repo]#

[root@workstation chef-repo]# export PATH=~/.local/bin:$PATH

[root@workstation chef-repo]#

[root@workstation chef-repo]# source ~/.bash\_profile

[root@workstation chef-repo]#

[root@workstation chef-repo]# pip --version

pip 18.1 from /root/.local/lib/python2.7/site-packages/pip (python 2.7)

[root@workstation chef-repo]#

[root@workstation chef-repo]#

[root@workstation chef-repo]# pip install awscli --upgrade --user

Collecting awscli

Downloading https://files.pythonhosted.org/packages/22/13/5c2df72102ab95f13a0b2ad470500327765e163d6867afd6421316fa6692/awscli-1.16.81-py2.py3-none-any.whl (1.4MB)

100% |████████████████████████████████| 1.4MB 16.9MB/s

Collecting botocore==1.12.71 (from awscli)

Downloading https://files.pythonhosted.org/packages/50/c0/cd4f8bec8a10876f0ce34f0cf264fda04e09df41d1a473a43f890c71fffa/botocore-1.12.71-py2.py3-none-any.whl (5.2MB)

100% |████████████████████████████████| 5.2MB 9.1MB/s

Collecting s3transfer<0.2.0,>=0.1.12 (from awscli)

Downloading https://files.pythonhosted.org/packages/d7/14/2a0004d487464d120c9fb85313a75cd3d71a7506955be458eebfe19a6b1d/s3transfer-0.1.13-py2.py3-none-any.whl (59kB)

100% |████████████████████████████████| 61kB 25.4MB/s

Collecting colorama<=0.3.9,>=0.2.5 (from awscli)

Downloading https://files.pythonhosted.org/packages/db/c8/7dcf9dbcb22429512708fe3a547f8b6101c0d02137acbd892505aee57adf/colorama-0.3.9-py2.py3-none-any.whl

Collecting rsa<=3.5.0,>=3.1.2 (from awscli)

Downloading https://files.pythonhosted.org/packages/e1/ae/baedc9cb175552e95f3395c43055a6a5e125ae4d48a1d7a924baca83e92e/rsa-3.4.2-py2.py3-none-any.whl (46kB)

100% |████████████████████████████████| 51kB 23.0MB/s

Collecting docutils>=0.10 (from awscli)

Downloading https://files.pythonhosted.org/packages/50/09/c53398e0005b11f7ffb27b7aa720c617aba53be4fb4f4f3f06b9b5c60f28/docutils-0.14-py2-none-any.whl (543kB)

100% |████████████████████████████████| 552kB 13.5MB/s

Requirement already satisfied, skipping upgrade: PyYAML<=3.13,>=3.10 in /usr/lib64/python2.7/site-packages (from awscli) (3.10)

Collecting jmespath<1.0.0,>=0.7.1 (from botocore==1.12.71->awscli)

Downloading https://files.pythonhosted.org/packages/b7/31/05c8d001f7f87f0f07289a5fc0fc3832e9a57f2dbd4d3b0fee70e0d51365/jmespath-0.9.3-py2.py3-none-any.whl

Collecting python-dateutil<3.0.0,>=2.1; python\_version >= "2.7" (from botocore==1.12.71->awscli)

Downloading https://files.pythonhosted.org/packages/74/68/d87d9b36af36f44254a8d512cbfc48369103a3b9e474be9bdfe536abfc45/python\_dateutil-2.7.5-py2.py3-none-any.whl (225kB)

100% |████████████████████████████████| 235kB 36.4MB/s

Collecting urllib3<1.25,>=1.20; python\_version == "2.7" (from botocore==1.12.71->awscli)

Downloading https://files.pythonhosted.org/packages/62/00/ee1d7de624db8ba7090d1226aebefab96a2c71cd5cfa7629d6ad3f61b79e/urllib3-1.24.1-py2.py3-none-any.whl (118kB)

100% |████████████████████████████████| 122kB 34.2MB/s

Collecting futures<4.0.0,>=2.2.0; python\_version == "2.6" or python\_version == "2.7" (from s3transfer<0.2.0,>=0.1.12->awscli)

Downloading https://files.pythonhosted.org/packages/2d/99/b2c4e9d5a30f6471e410a146232b4118e697fa3ffc06d6a65efde84debd0/futures-3.2.0-py2-none-any.whl

Collecting pyasn1>=0.1.3 (from rsa<=3.5.0,>=3.1.2->awscli)

Downloading https://files.pythonhosted.org/packages/d1/a1/7790cc85db38daa874f6a2e6308131b9953feb1367f2ae2d1123bb93a9f5/pyasn1-0.4.4-py2.py3-none-any.whl (72kB)

100% |████████████████████████████████| 81kB 30.0MB/s

Requirement already satisfied, skipping upgrade: six>=1.5 in /usr/lib/python2.7/site-packages (from python-dateutil<3.0.0,>=2.1; python\_version >= "2.7"->botocore==1.12.71->awscli) (1.9.0)

Installing collected packages: jmespath, docutils, python-dateutil, urllib3, botocore, futures, s3transfer, colorama, pyasn1, rsa, awscli

Successfully installed awscli-1.16.81 botocore-1.12.71 colorama-0.3.9 docutils-0.14 futures-3.2.0 jmespath-0.9.3 pyasn1-0.4.4 python-dateutil-2.7.5 rsa-3.4.2 s3transfer-0.1.13 urllib3-1.24.1

[root@workstation chef-repo]#

[root@workstation chef-repo]#

[root@workstation chef-repo]# aws --version

aws-cli/1.16.81 Python/2.7.5 Linux/3.10.0-957.1.3.el7.x86\_64 botocore/1.12.71

[root@workstation chef-repo]#

[root@workstation chef-repo]#

[root@workstation chef-repo]# aws configure

AWS Access Key ID [None]: AKIAIC5RLY3IUKTIY7FA

AWS Secret Access Key [None]: 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

Default region name [None]: us-east-2

Default output format [None]:

[root@workstation chef-repo]#

[root@workstation chef-repo]# pwd

/root/chef-repo

[root@workstation chef-repo]# cd cookbooks/cookbook1

[root@workstation cookbook1]# ls -lart

total 32

drwxr-xr-x. 4 root root 56 Dec 18 03:05 ..

-rw-r--r--. 1 root root 737 Dec 18 03:05 metadata.rb

-rw-r--r--. 1 root root 57 Dec 18 03:05 README.md

-rw-r--r--. 1 root root 156 Dec 18 03:05 CHANGELOG.md

-rw-r--r--. 1 root root 1090 Dec 18 03:05 chefignore

-rw-r--r--. 1 root root 77 Dec 18 03:05 Berksfile

-rw-r--r--. 1 root root 70 Dec 18 03:05 LICENSE

-rw-r--r--. 1 root root 490 Dec 18 03:05 .kitchen.yml

drwxr-xr-x. 3 root root 25 Dec 18 03:05 test

drwxr-xr-x. 3 root root 40 Dec 18 03:05 spec

drwxr-xr-x. 3 root root 67 Dec 18 03:05 .delivery

drwxr-xr-x. 2 root root 44 Dec 20 00:40 files

-rw-r--r--. 1 root root 710 Dec 22 01:43 automatetomcat.rb

drwxr-xr-x. 7 root root 226 Dec 22 03:50 .

drwxr-xr-x. 2 root root 145 Dec 22 04:28 recipes

[root@workstation cookbook1]#

[root@workstation cookbook1]#

[root@workstation cookbook1]# vi .kitchen.yml

[root@workstation cookbook1]# cat .kitchen.yml

---

driver:

name: vagrant

provisioner:

name: chef\_zero

# You may wish to disable always updating cookbooks in CI or other testing environments.

# For example:

# always\_update\_cookbooks: <%= !ENV['CI'] %>

always\_update\_cookbooks: true

verifier:

name: inspec

platforms:

- name: ubuntu-16.04

- name: centos-7

suites:

- name: default

run\_list:

- recipe[cookbook1::default]

verifier:

inspec\_tests:

- test/integration/default

attributes:

[root@workstation cookbook1]#

[root@workstation cookbook1]#

[root@workstation cookbook1]# echo "" > .kitchen.yml

[root@workstation cookbook1]# vi .kitchen.yml

[root@workstation cookbook1]# ls /tmp/pra/

ansi\_key.pem benefits.war chef-starter.zip new.pem redhat1\_key.pem

[root@workstation cookbook1]# pwd

/root/chef-repo/cookbooks/cookbook1

[root@workstation cookbook1]# ls -lart

total 32

drwxr-xr-x. 4 root root 56 Dec 18 03:05 ..

-rw-r--r--. 1 root root 737 Dec 18 03:05 metadata.rb

-rw-r--r--. 1 root root 57 Dec 18 03:05 README.md

-rw-r--r--. 1 root root 156 Dec 18 03:05 CHANGELOG.md

-rw-r--r--. 1 root root 1090 Dec 18 03:05 chefignore

-rw-r--r--. 1 root root 77 Dec 18 03:05 Berksfile

-rw-r--r--. 1 root root 70 Dec 18 03:05 LICENSE

drwxr-xr-x. 3 root root 25 Dec 18 03:05 test

drwxr-xr-x. 3 root root 40 Dec 18 03:05 spec

drwxr-xr-x. 3 root root 67 Dec 18 03:05 .delivery

drwxr-xr-x. 2 root root 44 Dec 20 00:40 files

-rw-r--r--. 1 root root 710 Dec 22 01:43 automatetomcat.rb

drwxr-xr-x. 2 root root 145 Dec 22 04:28 recipes

-rw-r--r--. 1 root root 1 Dec 22 06:01 .kitchen.yml

drwxr-xr-x. 7 root root 226 Dec 22 06:13 .

[root@workstation cookbook1]# vi .kitchen.yml

[root@workstation cookbook1]# cat .kitchen.yml

---

driver:

name: ec2

aws\_ssh\_key\_id: new

security\_group\_ids: ["sg-001cef6aae2ac1054"]

region: us-east-2

availability\_zone: b

require\_chef\_omnibus: true

subnet\_id: subnet-46bdda3c

instance\_type: t2.micro

associate\_public\_ip: true

provisioner:

name: chef\_zero

platforms:

- name: ubuntu-16.04

driver:

image\_id: ami-0653e888ec96eab9b

block\_device\_mappings:

- device\_name: /dev/sda1

ebs:

volume\_size: 20

delete\_on\_termination: true

transport:

ssh\_key: /tmp/pra/new.pem # (provide your PEM file path)

connection\_timeout: 300

connection\_retries: 5

username: ubuntu

suites:

- name: default

run\_list:

- recipe[cookbook1::installtomcat]

- recipe[cookbook1::runtomcat]

[root@workstation cookbook1]#

[root@workstation cookbook1]#

[root@workstation cookbook1]# kitchen create

-----> Starting Kitchen (v1.23.2)

-----> Creating <default-ubuntu-1604>...

Detected platform: ubuntu version 16.04 on x86\_64. Instance Type: t2.micro. Default username: ubuntu (default).

If you are not using an account that qualifies under the AWS

free-tier, you may be charged to run these suites. The charge

should be minimal, but neither Test Kitchen nor its maintainers

are responsible for your incurred costs.

Instance <i-07ac7ff52a2b4891c> requested.

Polling AWS for existence, attempt 0...

Attempting to tag the instance, 0 retries

EC2 instance <i-07ac7ff52a2b4891c> created.

Waited 0/300s for instance <i-07ac7ff52a2b4891c> volumes to be ready.

Waited 5/300s for instance <i-07ac7ff52a2b4891c> volumes to be ready.

Waited 10/300s for instance <i-07ac7ff52a2b4891c> volumes to be ready.

Waited 0/300s for instance <i-07ac7ff52a2b4891c> to become ready.

Waited 5/300s for instance <i-07ac7ff52a2b4891c> to become ready.

Waited 10/300s for instance <i-07ac7ff52a2b4891c> to become ready.

Waited 15/300s for instance <i-07ac7ff52a2b4891c> to become ready.

EC2 instance <i-07ac7ff52a2b4891c> ready (hostname: ec2-18-222-128-228.us-east-2.compute.amazonaws.com).

Waiting for SSH service on ec2-18-222-128-228.us-east-2.compute.amazonaws.com:22, retrying in 3 seconds

[SSH] Established

Finished creating <default-ubuntu-1604> (0m31.92s).

-----> Kitchen is finished. (0m35.94s)

[root@workstation cookbook1]# pwd

/root/chef-repo/cookbooks/cookbook1

[root@workstation cookbook1]# vi .kitchen

[root@workstation cookbook1]# vi .kitchen.yml

[root@workstation cookbook1]# kitchen converge

-----> Starting Kitchen (v1.23.2)

-----> Converging <default-ubuntu-1604>...

Preparing files for transfer

Preparing dna.json

Resolving cookbook dependencies with Berkshelf 7.0.6...

Removing non-cookbook files before transfer

Preparing validation.pem

Preparing client.rb

-----> Installing Chef Omnibus (install only if missing)

Downloading https://omnitruck.chef.io/install.sh to file /tmp/install.sh

Trying wget...

Download complete.

ubuntu 16.04 x86\_64

Getting information for chef stable for ubuntu...

downloading https://omnitruck.chef.io/stable/chef/metadata?v=&p=ubuntu&pv=16.04&m=x86\_64

to file /tmp/install.sh.1970/metadata.txt

trying wget...

sha1 27aa243ab6a05b70115357ea1e552a381a65dd85

sha256 cb1f032bc9d0031e12464d7b394901fe340d8e8ef6fe4413e125b9e803b3aaf5

url https://packages.chef.io/files/stable/chef/14.8.12/ubuntu/16.04/chef\_14.8.12-1\_amd64.deb

version 14.8.12

downloaded metadata file looks valid...

downloading https://packages.chef.io/files/stable/chef/14.8.12/ubuntu/16.04/chef\_14.8.12-1\_amd64.deb

to file /tmp/install.sh.1970/chef\_14.8.12-1\_amd64.deb

trying wget...

Comparing checksum with sha256sum...

WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING

You are installing an omnibus package without a version pin. If you are installing

on production servers via an automated process this is DANGEROUS and you will

be upgraded without warning on new releases, even to new major releases.

Letting the version float is only appropriate in desktop, test, development or

CI/CD environments.

WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING

Installing chef

installing with dpkg...

Selecting previously unselected package chef.

(Reading database ... 51302 files and directories currently installed.)

Preparing to unpack .../chef\_14.8.12-1\_amd64.deb ...

Unpacking chef (14.8.12-1) ...

Setting up chef (14.8.12-1) ...

Thank you for installing Chef!

Transferring files to <default-ubuntu-1604>

Starting Chef Client, version 14.8.12

Creating a new client identity for default-ubuntu-1604 using the validator key.

resolving cookbooks for run list: ["cookbook1::installtomcat", "cookbook1::runtomcat"]

Synchronizing Cookbooks:

- cookbook1 (0.1.0)

Installing Cookbook Gems:

Compiling Cookbooks...

Converging 2 resources

Recipe: cookbook1::installtomcat

\* apt\_package[tomcat] action install

\* No candidate version available for tomcat

================================================================================

Error executing action `install` on resource 'apt\_package[tomcat]'

================================================================================

Chef::Exceptions::Package

-------------------------

No candidate version available for tomcat

Resource Declaration:

---------------------

# In /tmp/kitchen/cache/cookbooks/cookbook1/recipes/installtomcat.rb

1: package "tomcat" do

2: action :install

3: end

4:

Compiled Resource:

------------------

# Declared in /tmp/kitchen/cache/cookbooks/cookbook1/recipes/installtomcat.rb:1:in `from\_file'

apt\_package("tomcat") do

package\_name "tomcat"

action [:install]

default\_guard\_interpreter :default

declared\_type :package

cookbook\_name "cookbook1"

recipe\_name "installtomcat"

end

System Info:

------------

chef\_version=14.8.12

platform=ubuntu

platform\_version=16.04

ruby=ruby 2.5.3p105 (2018-10-18 revision 65156) [x86\_64-linux]

program\_name=/opt/chef/bin/chef-client

executable=/opt/chef/bin/chef-client

Running handlers:

[2018-12-22T06:22:07+00:00] ERROR: Running exception handlers

Running handlers complete

[2018-12-22T06:22:07+00:00] ERROR: Exception handlers complete

Chef Client failed. 0 resources updated in 01 seconds

[2018-12-22T06:22:07+00:00] FATAL: Stacktrace dumped to /tmp/kitchen/cache/chef-stacktrace.out

[2018-12-22T06:22:07+00:00] FATAL: Please provide the contents of the stacktrace.out file if you file a bug report

[2018-12-22T06:22:07+00:00] FATAL: Chef::Exceptions::Package: apt\_package[tomcat] (cookbook1::installtomcat line 1) had an error: Chef::Exceptions::Package: No candidate version available for tomcat

>>>>>> ------Exception-------

>>>>>> Class: Kitchen::ActionFailed

>>>>>> Message: 1 actions failed.

>>>>>> Converge failed on instance <default-ubuntu-1604>. Please see .kitchen/logs/default-ubuntu-1604.log for more details

>>>>>> ----------------------

>>>>>> Please see .kitchen/logs/kitchen.log for more details

>>>>>> Also try running `kitchen diagnose --all` for configuration

[root@workstation cookbook1]# pwd

/root/chef-repo/cookbooks/cookbook1

[root@workstation cookbook1]# cd recipes/

[root@workstation recipes]# cd ..

[root@workstation cookbook1]# vi recipes/installtomcat.rb

[root@workstation cookbook1]# vi recipes/runtomcat.rb

[root@workstation cookbook1]#

[root@workstation cookbook1]#

[root@workstation cookbook1]# kitchen converge

-----> Starting Kitchen (v1.23.2)

-----> Converging <default-ubuntu-1604>...

Preparing files for transfer

Preparing dna.json

Resolving cookbook dependencies with Berkshelf 7.0.6...

Removing non-cookbook files before transfer

Preparing validation.pem

Preparing client.rb

-----> Chef Omnibus installation detected (install only if missing)

Transferring files to <default-ubuntu-1604>

Starting Chef Client, version 14.8.12

resolving cookbooks for run list: ["cookbook1::installtomcat", "cookbook1::runtomcat"]

Synchronizing Cookbooks:

- cookbook1 (0.1.0)

Installing Cookbook Gems:

Compiling Cookbooks...

Converging 2 resources

Recipe: cookbook1::installtomcat

\* apt\_package[tomcat8] action install

- install version 8.0.32-1ubuntu1.8 of package tomcat8

Recipe: cookbook1::runtomcat

\* service[tomcat8] action start (up to date)

Running handlers:

Running handlers complete

Chef Client finished, 1/2 resources updated in 08 seconds

Downloading files from <default-ubuntu-1604>

Finished converging <default-ubuntu-1604> (0m10.93s).

-----> Kitchen is finished. (0m14.32s)

[root@workstation cookbook1]#

[root@workstation cookbook1]#

[root@workstation cookbook1]#

[root@workstation cookbook1]# kitchen destroy

-----> Starting Kitchen (v1.23.2)

-----> Destroying <default-ubuntu-1604>...

EC2 instance <i-07ac7ff52a2b4891c> destroyed.

Finished destroying <default-ubuntu-1604> (0m0.16s).

-----> Kitchen is finished. (0m3.47s)

[root@workstation cookbook1]#