Machine generated alternative text:
You're one step away from access to all the power and flexibility of Chet 
Get ready to automate your infrastructure, accelerate your time to market, 
manage scale and complexity, and safeguard your systems. Just complete 
the form to get started. 
Click here to sic 
Looking for oper 
Start with the Chef 
and check out our 
Join the Chef Cc 
Join our worldwide 
Full Name 
Company 
Email 
username 
das 
das 
cnristudasj@gmail.com 
cnristudas 
I'm not a robot 
I agree to the Tens of Service and the Master License and 
Services Agreement 
Get Started 

Task 1

TASK 1: HOW TO BRING UP A CHEF WORKSTATION

<https://github.com/AnjuMeleth/DevOpsMasterChef.git>

1 Clone the repository

git clone <https://github.com/AnjuMeleth/DevOpsMasterChef.git>

2 Run the Chef workstation installation script

sh workstation.sh

3 Set the path/opt/chefdk/embedded

echo 'eval "$(chef shell-init bash)"' >> ~/.bash\_profile

4 Source the file to set correct path

source $HOME/.bash\_profile

5 Get the chef version

chef -v

6 List the tools installed with Chefdk

ls /opt/chefdk/bin

Machine generated alternative text:
ons chef -v 
chefDK version: 4.10.0 
chef Infra client version: 15.13.8 
chef Inspec version: 4.22.1 
Test Kitchen version: 2.5.4 
Foodcritic version: 16.3.0 
cookstyle version: 5.2 3.0 
ubuntu@i p -172 - 31-30-182 : -/DevopsMasterchef/1_chefworkstati onlnst; 
ons 

ssh -i "Jenkins.pem" ubuntu@ec2-54-87-144-102.compute-1.amazonaws.com

54.87.144.102

ssh -i "Jenkins.pem" ubuntu@ec2-3-83-234-47.compute-1.amazonaws.com

3.83.234.47

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eval "$(chef shell-init SHELL\_NAME)"

eval "$(chef shell-init bash)"

4 Source the file to set correct path

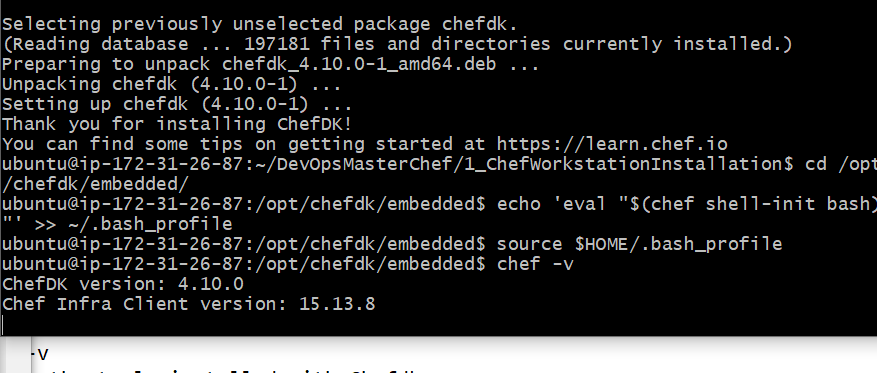
source $HOME/.bash\_profile

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ls /opt/chefdk/bin



Machine generated alternative text:
cookstyle version: 5.23. O 
ubuntu@ip-172-31-26-87 : /opt/chefdk/embedded$ Is /opt/chefdk/bin 
berks 
chef 
chef-appl y 
chef-cl i ent 
chef-resource-inspector 
chef-servi ce-manager 
chef-shel 1 
chef-sol o 
chef-vault 
knife 
chef-wi ndows-service ohai 
cookstyl e 
dco 
del i very 
foodcritic 
7 nspec 
kitchen 
pri nt_executi on_envi ronment 
push-apply 
pushy-cl i ent 
pushy-servi ce-manager 
ubuntu@i p-172-31-26-87 : /opt/chefdk/embedded$ 

TASK 2:HOW TO RUN A FIRST CHEF RECIPE

# Steps Commands

1 Create a folder samples and go into it

mkdir samples

cd samples

2 Create a file hello.rb

cat vi hello.rb

sudo vi hello.rb

file 'hello.txt' do

content 'Welcome to Chef'

end

3 Run the recipe

chef-apply hello.rb

4 “hello.txt” file will be created

TASK 3:HOW TO CREATE AN ACCOUNT IN HOSTED CHEF

<https://manage.chef.io/signup>

1 Sign up in Hosted Chef

2 Create an Organisation

config.rb file in

~/Documents/Chef/chefstarter/chef-repo/.chef has the

configuration details

Task: 5

<https://github.com/AnjuMeleth/DevOpsMasterChef.git>

create cook book:

reate cook book:

Make sure you are in ~/chefstarter/chef-repo/cookbooks

folder

chef generate cookbook nginx

Machine generated alternative text:
# cookbook: : 
ngnnx 
Recipe: : 
default 
# copyright: : 2020, 
package 'nginx' 
servnce 'ngnnx' 
do 
action : enable, 
end 
The Authors 
: start 
, All 
Ri ghts Reserved. 

Machine generated alternative text:
.rb in the cache. 
INFO: 
he cache. 
- nginx (0.1. O) 
nstalling cookbook Gems : 
ompiling cookbooks.. . 
onverging 2 resources 
ecipe: nginx: : default 
Storing updated cookbooks/nginx/ 
* apt_package Cnginx) action install [2020-10-10T13: 
apt_package Cnginx) action install (nginx: : default line 7) 
2020-10-10T13:51: 36+00: 00] INFO : apt_package Cnginx) installed ngi 
buntu1.7 
- install version 1.14.O-Oubuntu1.7 of package nginx 
* servi ce Cnginx) action enableC2020-10-10T13:51: 36+00: 00] INFO : 
ice Cnginx) action enable (nginx: : default line 8) 
(up to date) 
* service Cnginx] action start [2020-10-10T13:51: 36+00: 00] INFO : P 
ceCnginx) action start (nginx: : default line 8) 
(up to date) 
2020-10-10T13:51: WARN: 
st was given 
2020-10-10T13:51: 36+00:00] INFO: 
econds 
2020-10-10T13:51: 36+00:00] INFO: 
unning handlers: 
2020-10-10T13:51: 36+00: 00] INFO: 
unning handlers complete 
2020-10-10T13:51: 36+00: 00) INFO: 
Skipping final node save because 
Chef Infra Client Run complete i 
Skipping removal of unused files 
Running report handlers 
Report handlers compl ete 
hef Infra Client finished, 1/3 resources updated in 11 seconds 
buntu@ip-172-31-26-87:-/chef-start/cookbooks/nginx/recipes$ 

Machine generated alternative text:
Not secure | 54.87.144.102 
Apps 
A 
server 
[A Imported From IE 
Imported 
Bookmarks bar 
DevApp 
Welcome to nginx! 
If you see this page, the nginx web server is successfully installed and 
working. Further configuration is required. 
For online documentation and support please refer to nginx.org. 
Commercial support is available at nginx.com. 
Thank you for using nginx. 

<https://api.chef.io/signup>

<https://api.chef.io/login>

Task 6:

1 Make sure in the cookbooksfolder

2 Upload nginx cookbook to Chef Server

knife upload cookbook nginx

3 View the cookbook uploaded in

organisations ->policy ->

cookbooks

4 Delete the nginx cookbook from Chef Server

knife cookbook delete nginx

Machine generated alternative text:
Apps 
server 
#CHEF 
> Cookbooks 
Roles 
Data Bags 
Environments 
Clients 
[A Imported From IE 
Nodes 
Reports 
Imported 
Policy 
Content 
Bookmarks bar 
DevApp 
Administration 
Current Version 
0.1.o 
Permissions 
chrstudas 
Showing All Cookbooks 
Cookbook 
ngnx 
Cookbook: nginx 
Details 
e README 
License 
Installs/Configures nginx 
All Rights 
Reserved 
Versions 

Machine generated alternative text:
buntu@i p-172 
-31-26 
buntu@i p-172 
-31-26 
buntu@i p-172 
-31-26 
reated nginx 
buntu@i p-172 
-31-26 
o you really 
-87 :-/chef-start/cookbooks/nginx/recipes$ cd 
-87 :-/chef-start/cookbooks/nginx$ cd 
-87 : -/chef-start/cookbooks S 
-87 : -/chef-start/cookbooks$ 
knife upload cookbook nginx 
knife cookbook delete nginx 
want to delete nginx version 0.1. 
eleted cookbook Cnginx version 0.1.0] 
buntu@i P-172 -31-26-87 : -/chef-start/cookbooks S 

knife cookbook delete nginx

TASK 7: HOW TO ESTABLISH

PASSWORDLESS

CONNECTION BETWEEN

CHEF WORKSTATION AND

CHEF NODE

• Activity: Enable Password

1 Install Filezilla client.

Go to Edit -> Setting -> SFTP ->

Add Keyfile

Give the IP address of the

workstation and port 22 ,

username ubuntu.

Then transfer the pem file to

ubuntu folder

2 Stop all firewall sudo service ufw stop

3 Start ssh sudo service ssh start

4 Add the ssh details eval `ssh-agent -s`

sudo chmod 400 <your.pem>

ssh-add <your.pem>

5 Access the node system from

master

ssh ubuntu@<IP address>

ssh ubuntu@<IP address>

Task 8:

1 Make sure you are in chef-repo

folder and fetch the SSL certifcates

from the Chef Server

knife ssl fetch

2 Bootstrap the Chef Node knife

bootstrap <Ip address> -x ubuntu -N chef\_node --sudo

bootstrap 3.92.68.56 -x ubuntu -N chef\_node --sudo

3 View the node details in the Chef

Server under Nodes

4 Verify the chef-client installation in

Chef node

chef-client -v

Machine generated alternative text:
:hef7 gnore 
nginx starter 
cd , 
-bash: cd: 
NO such file or di rectory 
cdc.. 
:dc... 
command not found 
knife SSI fetch 
MARNING: certificates from api . chef . io will be fetched and placed in your trusted_cert 
di rectory (/home/ubuntu/chef-start/. chef/trusted_certs) . 
Knife has no means to verify these are the correct certificates. you should 
verify the authenticity of these certificates after downloading. 
certificate for wildcard_opscode.com in /home/ubuntu/chef-start/. chef/trusted_certs/ 
vi 1 dcard_opscode_com.crt 
certificate for DigiCert_SHA2_secure_server_CA in /home/ubuntu/chef-start/. chef/trus 
ted_certs /Di gi cert_SHA2_secu re_server_CA. crt 
'buntu@i P-172 -31-26-87 : -/chef-start/cookbooks S 
'buntu@ip-172-31-26-87:-/chef-start/cookbooksS 