DevOps for Web Developers

Mitesh Soni

Video 4.6

Creating a Role ▶

In this Video, we are going to take a look at...

- Providing a path for different patterns and workflow processes

- Verifying the Reports section in the hosted Chef account

Chef Manage – Mozilla Firefox   – ▢ ✕

   Chef Manage   ✕   ✚

← ① 🔒 https://manage.**chef**.io/organizations/packt/cookbooks   ⟳   🔍 Search   ☆ 📋 🔽 ⬇ 🏠 ☰

CHEF   Nodes   Reports   Policy   Administration   💬 Feedback | Organization **packt** ▾ | Signed in as **Video Packt** ▾   0   0

> **Cookbooks**

    Roles

    Data Bags

    Environments

    Clients

Showing **All Cookbooks**

Cookbook	Current Version
apt	5.0.0
build-essential	7.0.2
chef-sugar	3.4.0
compat_resource	12.16.2
homebrew	2.1.2

Please select a cookbook

     Need help? If you have questions or you're stuck, **we're here to help.**   Feedback   What's New?   About Chef Manage

Chef Manage – Mozilla Firefox

Chef Manage   ✕   ➕

◀ ▶   ⓘ 🔒 https://manage.**chef.io**/organizations/packt/cookbooks   ↻   🔍 Search   ☆ 🗐 🛡 ⬇ 🏠 ≡

CHEF
MANAGE

Nodes   Reports   **Policy**   Administration

💬 Feedback | Organization **packt** ▾ | Signed in as **Video Packt** ▾   0   0

❯ **Cookbooks**

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Please select a cookbook

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Chef Manage   ✕   +

https://manage.**chef**.io/organizations/packt/roles   🔍 Search

CHEF MANAGE

Nodes   Reports   **Policy**   Administration

💬 Feedback | Organization **packt** ▾ | Signed in as **Video Packt** ▾ | 0 | 0

Cookbooks

Showing **All Roles**   Search Roles...   🔍

❯ Roles

ⓘ There are no items to display.

Create

Delete

Edit Run List

Data Bags

Environments

Clients

Please select a role

root@localhost:/home/user/Deskt...   🦊 Chef Manage – Mozilla Firefox   2 / 4

Chef Manage – Mozilla Firefox

Chef Manage ✕   ✚

https://manage.chef.io/organizations/packt/roles

🔍 Search

CHEF

Nodes   Reports   **Policy**   Administration

💬 Feedback   Organization packt ▼   Signed in as Video Packt ▼

Cookbooks

Showing All Roles

> Roles

ℹ There are no items to

Create
Delete
Edit Run List

Data Bags

Environments

Clients

Create Role ✕

Basics ▶ Run List ▶ Default Attributes ▶ Override Attributes

Name

v-tomcat

Description

Tomcat

Cancel   ‹ Previous   Next ›   Create Role

root@localhost:/home/user/Deskt...   Chef Manage – Mozilla Firefox

Chef Manage – Mozilla Firefox

Chef Manage ✕ ✚

① 🔒 https://manage.chef.io/organizations/packt/roles

🔍 Search

CHEF   Nodes   Reports   Policy   Administration   💬 Feedback   Organization packt ▾   Signed in as Video Packt ▾

Cookbooks   Showing All Roles

> Roles   ⓘ There are no items to

Create   # Create Role   ✕
Delete
Edit Run List   Basics ▸ Run List ▸ Default Attributes ▸ Override Attributes

Data Bags   Name

Environments   v-tomcat

Clients   ⟳

Description

Tomcat Installation on VM

Cancel   ◀ Previous   Next ▶   Create Role

root@localhost:/home/user/Deskt...   Chef Manage – Mozilla Firefox   2/4

Chef Manage – Mozilla Firefox

Chef Manage   ✕   ✚

https://manage.**chef**.io/organizations/packt/roles   ⟳   🔍 Search

CHEF   Nodes   Reports   Policy   Administration   💬 Feedback   Organization packt ▼   Signed in as Video Packt ▼

Cookbooks   Showing All Roles

Roles   There are no items to

Create
Delete
Edit Run List

Data Bags

Environments

Clients

Create Role   ✕

Basics ▶ **Run List** ▶ **Default Attributes** ▶ **Override Attributes**

▦ Available Roles   Current Run List

🗎 Available Recipes

ohai

openssl

openssl::upgrade

seven_zip

tomcat

windows

Chef Manage – Mozilla Firefox

Chef Manage   ✕   ➕

https://manage.chef.io/organizations/packt/roles   🔍 Search

CHEF   Nodes   Reports   Policy   Administration   💬 Feedback   Organization packt ▼   Signed in as Video Packt ▼

Cookbooks   Showing All Roles

Roles

Create
Delete

Data Bags

Environments

Clients

Create Role   ✕

Basics ▶ **Run List** ▶ Default Attributes ▶ Override Attributes

⠿ Available Roles   Current Run List

	tomcat

📖 Available Recipes

homebrew::install_taps

java

java::default_java_symlink

java::homebrew

java::ibm

java::ibm_tar

java::notify

Cookbooks

Showing All Roles

Search Roles...

> Roles

There are no items t...

Create
Delete
Edit Run List

Data Bags

Environments

Clients

Create Role

Basics ▸ **Run List** ▸ **Default Attributes** ▸ **Override Attributes**

Cancel   ‹ Previous   Next ›   Create Role
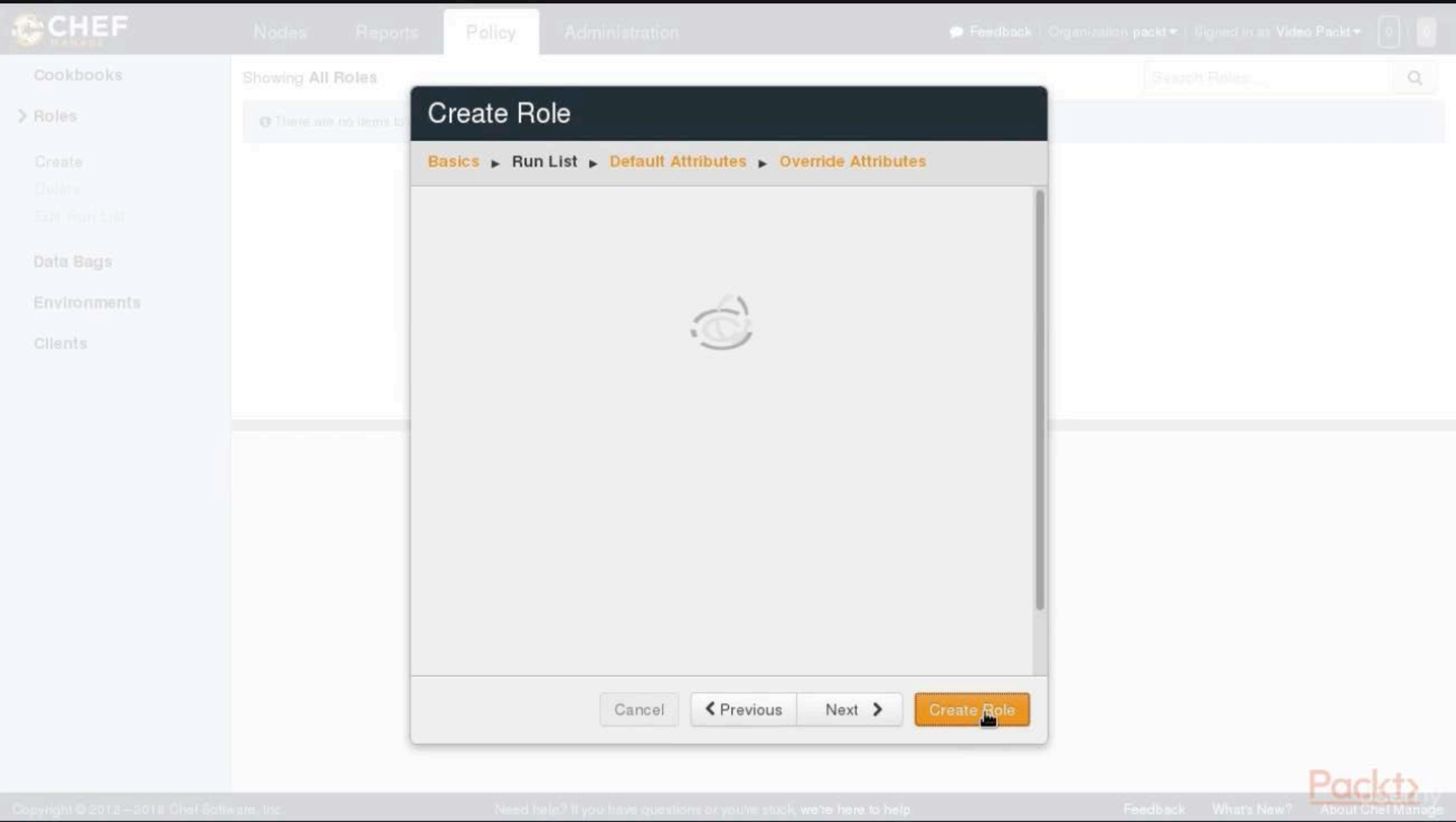
Cookbooks

❯ Roles

Create
Delete
Edit Run List

Data Bags

Environments

Clients

Showing **All Roles**

Search Roles...   🔍

Name	Description	Environment	Actions
v-tomcat	Tomcat Installation on VM		⚙ ▾

▲

Role: **v-tomcat**

Details	Attributes	Permissions

Description: Tomcat Installation on VM

Run List

Expand All   Collapse All   ✏ Edit

	Version	Position
📕 tomcat	2.3.4	0

root@localhost:/home/user/Desktop/chef/chef-repo

File   Edit   View   Search   Terminal   Help

[root@localhost chef-repo]# knife node run-list add tomcatserver"role[v-tomcat]"

root@localhost:/home/user/Desktop/chef/chef-repo   -   ▫   ✕

File Edit View Search Terminal Help

```
[root@localhost chef-repo]# knife node run-list add tomcatserver"role[v-tomcat]"
FATAL: Cannot find subcommand for: 'node run-list add tomcatserverrole[v-tomcat]'
Available node subcommands: (for details, knife SUB-COMMAND --help)

** NODE COMMANDS **
knife node bulk delete REGEX (options)
knife node create NODE (options)
knife node delete NODE (options)
knife node edit NODE (options)
knife node environment set NODE ENVIRONMENT
knife node from file FILE (options)
knife node list (options)
knife node run_list add [NODE] [ENTRY[,ENTRY]] (options)
knife node run_list remove [NODE] [ENTRY[,ENTRY]] (options)
knife node run_list set NODE ENTRIES (options)
knife node show NODE (options)
knife node status [<node> <node> ...]

[root@localhost chef-repo]# knife node run_list add tomcatserver"role[v-tomcat]"
ERROR: URI::InvalidURIError: bad URI(is not URI?): https://api.chef.io/organizations/packt/nodes/tomcatserverrole[v-tomcat]
[root@localhost chef-repo]# knife node run_list add tomcatserver "role[v-tomcat]"
tomcatserver:
  run_list: role[v-tomcat]
[root@localhost chef-repo]#
```

root@localhost:/home/user/Desktop/chef/chef-repo

File   Edit   View   Search   Terminal   Help

```
[root@localhost chef-repo]# knife node run-list add tomcatserver"role[v-tomcat]"
FATAL: Cannot find subcommand for: 'node run-list add tomcatserverrole[v-tomcat]'
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knife node list (options)
knife node run_list add [NODE] [ENTRY[,ENTRY]] (options)
knife node run_list remove [NODE] [ENTRY[,ENTRY]] (options)
knife node run_list set NODE ENTRIES (options)
knife node show NODE (options)
knife node status [<node> <node> ...]

[root@localhost chef-repo]# knife node run_list add tomcatserver"role[v-tomcat]"
ERROR: URI::InvalidURIError: bad URI(is not URI?): https://api.chef.io/organizations/packt/nodes/tomcatserverrole[v-tomcat]
[root@localhost chef-repo]# knife node run_list add tomcatserver "role[v-tomcat]"
tomcatserver:
  run_list: role[v-tomcat]
[root@localhost chef-repo]# chef-client
```

user@localhost:/home/user/Desktop   _ ▢ ✕

File Edit View Search Terminal Help

```
  - compat_resource (12.16.2)
Installing Cookbook Gems:
Compiling Cookbooks...
[2016-12-05T15:55:30+05:30] WARN: The default tomcat recipe does nothing. See the readme for information on using the tomcat r
esources
Converging 0 resources

Running handlers:
Running handlers complete
Chef Client finished, 0/0 resources updated in 37 seconds
[root@localhost chef-repo]# logout
Connection to 192.168.122.1 closed.
[root@localhost chef-repo]# cd ..
[root@localhost chef]# cd ..
[root@localhost Desktop]# chef-client
Starting Chef Client, version 12.16.42
resolving cookbooks for run list: ["tomcat"]
Synchronizing Cookbooks:
  - tomcat (2.3.4)
  - compat_resource (12.16.2)
Installing Cookbook Gems:
Compiling Cookbooks...
[2016-12-05T15:56:48+05:30] WARN: The default tomcat recipe does nothing. See the readme for information on using the tomcat r
esources
Converging 0 resources

Running handlers:
Running handlers complete
Chef Client finished, 0/0 resources updated in 26 seconds
[root@localhost Desktop]#
```

Chef Manage – Mozilla Firefox   – ☐ ✕

Chef Manage   ✕   ✚

⬅ ➡ ⓘ 🔒 | https://manage.**chef.io**/organizations/packt/roles/v-tomcat   ↻   🔍 Search   ☆ 🗐 ▽ ⬇ 🏠 ≡

CHEF
MANAGE

Nodes   Reports   **Policy**   Administration   💬 Feedback | Organization **packt** ▾ | Signed in as **Video Packt** ▾ | 0   0

Cookbooks	Showing **All Roles**			Search Roles... 🔍

❯ Roles

Name	Description	Environment	Actions
v-tomcat ⚙▾	Tomcat Installation on VM		⚙▾

Create

Delete

Edit Run List

Data Bags

Environments

Clients

Role: **v-tomcat**

Details	Attributes	Permissions

Description: Tomcat Installation on VM

Run List

Expand All   Collapse All   ✏ Edit

       Version Position

user@localhost:/home/user/Deskt...   🦊 Chef Manage – Mozilla Firefox   2 / 4 ⓘ

Chef Manage – Mozilla Firefox

Chef Manage   ✕   ✦

https://manage.chef.io/organizations/packt/dashboard?endTime=1480933659&startTime=1480847⁝   🔍 Search

CHEF MANAGE
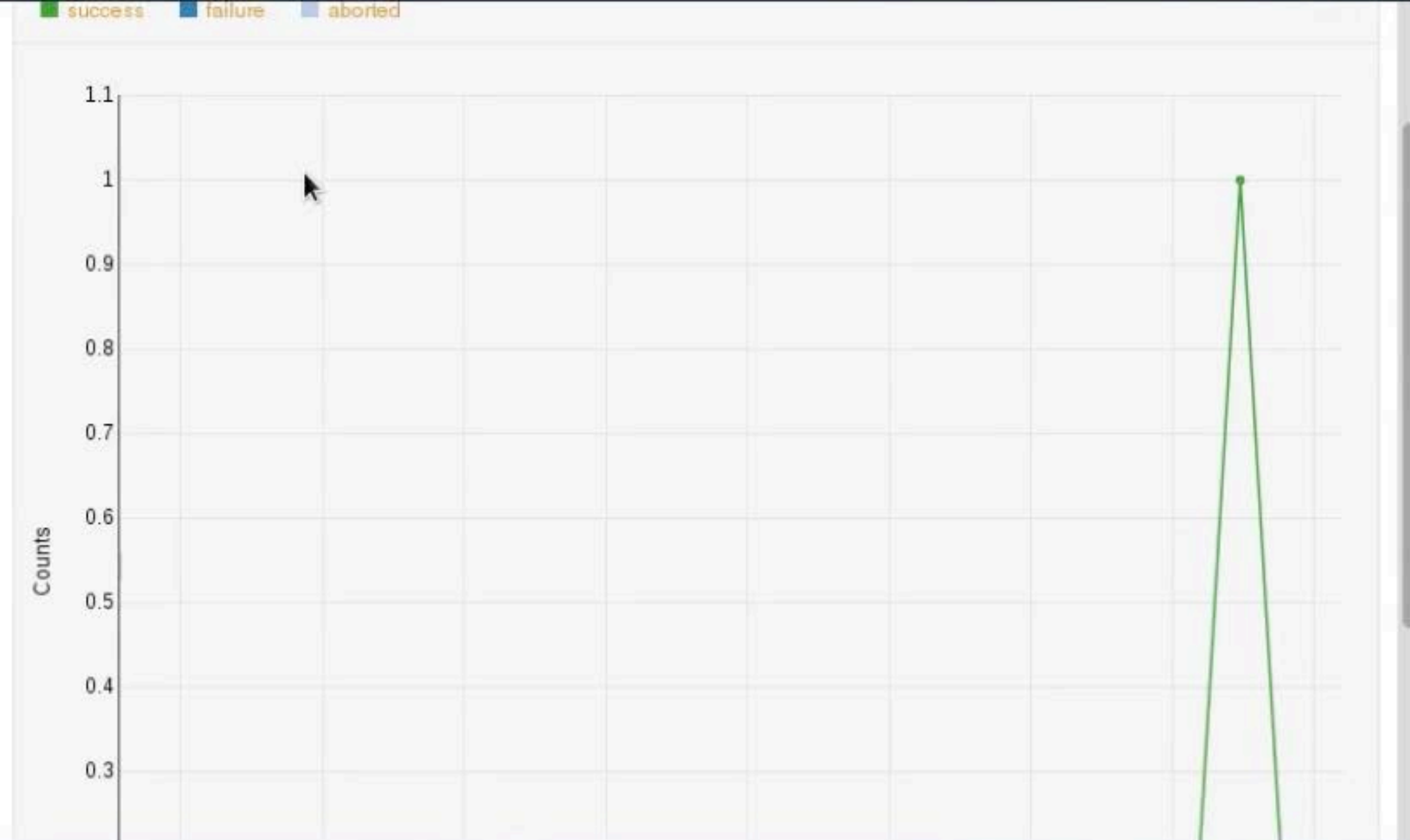
Nodes   Reports   Policy   Administration   💬 Feedback | Organization packt ▾ | Signed in as **Video Packt** ▾   0   0

❯ **Dashboard**   ■ success   ■ failure   ■ aborted

Run History

Run Durations

■ success   ■ failure   ■ aborted

Chef Manage – Mozilla Firefox

Chef Manage

https://manage.chef.io/organizations/packt/dashboard?endTime=1480933659&startTime=1480847

Search

CHEF MANAGE
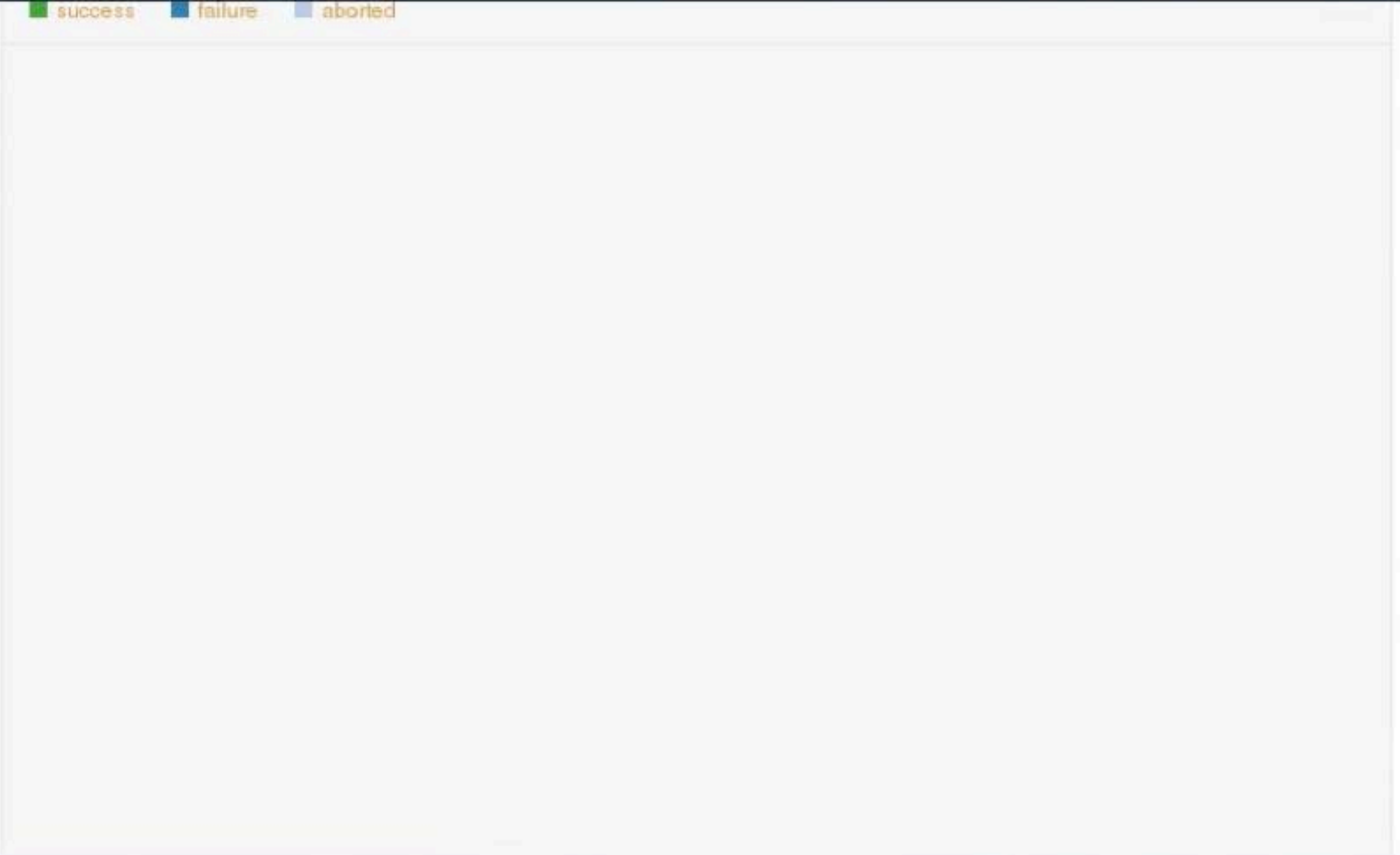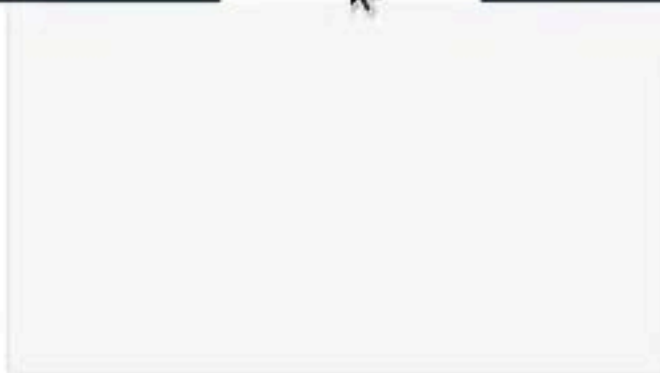
Nodes   Reports   Policy   Administration

Feedback | Organization **packt** ▾ | Signed in as **Video Packt** ▾   0   0

> Dashboard

Run History

Run Durations

■ success   ■ failure   ■ aborted

0s
< 10s
< 30s
< 1m
< 3m
< 5m
< 10m
< 15m
< 1h
> 1h

0   2   3
Run Counts

Counts

0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

Dec 4 11:13   Dec 4 14:00   Dec 4 16:46   Dec 4 19:33   Dec 4 22:20   Dec 5 01:06   Dec 5 03:53   Dec 5 06:40   Dec 5 09:26
Time

user@localhost:/home/user/Deskt...   Chef Manage – Mozilla Firefox   2 / 4

Summary

- Started with Chef

- Overview of hosted Chef

- Installed and configuring a Chef workstation

- Converged a Chef node using a Chef workstation

- Installed software packages using cookbooks

- Created a role

Next Section

Installing and Configuring Docker