

Video 6.3

Creating and Configuring a Virtual Machine in Amazon EC2



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

- Learning to verify the existing nodes converged by Chef
- Installing runtime environments

user@localhost:/home/user/Desktop/chef

File Edit View Search Terminal Help

```
[root@localhost chef]# knife node list
```

user@localhost:~/Desktop/chef/chef-repo

File Edit View Search Terminal Help

```
[user@localhost chef-repo]$ knife ec2 server create -I ami-5ec1673e -f t2.micro -N DevOpsVMonAWS -S Book --identity-file /home/user/chef/chef-repo/.chef/book.pem --ssh-user ec2-user -r 'role[v-tomcat]'
```

I

user@localhost:~/Desktop/chef/chef-repo

File Edit View Search Terminal Help

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[user@localhost chef-repo]$ knife ec2 server create -I ami-5ec1673e -f t2.micro -N DevOpsVMonAWS -S Book --identity-file /home/user/chef/chef-repo/.chef/book.pem --ssh-user ec2-user -r 'role[v-tomcat]'
```

Instance ID: i-d0e89a44

Flavor: t2.micro

Image: ami-5ec1673e

Region: us-west-2

Availability Zone: us-west-2b

Security Groups: default

Tags: Name: DevOpsVMonAWS

SSH Key: Book

Waiting for EC2 to create the instance.

Knife Plugin Using a Chef Workstation

Parameter	Value	description
-l	ami-5ec1673e	ID of the Amazon machine image
-f	t2.micro	Type of virtual machine
-N	DevOpsVMonAWS	Name of the Chef node
--aws-access-key-id	Your access key ID	AWS account access key ID
--aws-secret-access-key	Your secret access key	AWS account secret access key
-S	Book	SSH key
--identity-file	book.pem	PEM file
--ssh-user	ec2-user	User for AWS instance
-r	role[v-tomcat]	Chef role

Knife Plugin Using a Chef Workstation

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Knife Plugin Using a Chef Workstation

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Knife Plugin Using a Chef Workstation

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user@localhost:~/Desktop/chef/chef-repo

File Edit View Search Terminal Help

```

ec2-35-165-123-12.us-west-2.compute.amazonaws.com to file /tmp/install.sh.2624/install.sh
ec2-35-165-123-12.us-west-2.compute.amazonaws.com trying wget...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com el 6 x86_64
ec2-35-165-123-12.us-west-2.compute.amazonaws.com Getting information for chef stable 12 for el...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com downloading https://omnitruck-direct.chef.io/stable/chef/metadata?v=12&p=el&
pv=6&m=x86_64
ec2-35-165-123-12.us-west-2.compute.amazonaws.com to file /tmp/install.sh.2629/metadata.txt
ec2-35-165-123-12.us-west-2.compute.amazonaws.com trying wget...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com sha1 abe23132483c1ff015148ad72becf092c0fac428
ec2-35-165-123-12.us-west-2.compute.amazonaws.com sha256 bca097d9107bd4b20df88045b676a1d032b68a8b66bcf751dabc2e58715ae0
ae
ec2-35-165-123-12.us-west-2.compute.amazonaws.com url https://packages.chef.io/files/stable/chef/12.16.42/el/6/chef-12.16.42
-1.el6.x86_64.rpm
ec2-35-165-123-12.us-west-2.compute.amazonaws.com version 12.16.42
ec2-35-165-123-12.us-west-2.compute.amazonaws.com downloaded metadata file looks valid...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com downloading https://packages.chef.io/files/stable/chef/12.16.42/el/6/chef-12
.16.42-1.el6.x86_64.rpm
ec2-35-165-123-12.us-west-2.compute.amazonaws.com to file /tmp/install.sh.2629/chef-12.16.42-1.el6.x86_64.rpm
ec2-35-165-123-12.us-west-2.compute.amazonaws.com trying wget...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com Comparing checksum with sha256sum...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com Installing chef 12
ec2-35-165-123-12.us-west-2.compute.amazonaws.com installing with rpm...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com warning: /tmp/install.sh.2629/chef-12.16.42-1.el6.x86_64.rpm: Header V4 DSA/
SHA1 Signature, key ID 83ef826a: NOKEY
ec2-35-165-123-12.us-west-2.compute.amazonaws.com Preparing... (100
##### [100%]
ec2-35-165-123-12.us-west-2.compute.amazonaws.com Updating / installing...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com 1:chef-12.16.42-1.el6 ( 1
##### [100%]

```


user@localhost:~/Desktop/chef/chef-repo

File Edit View Search Terminal Help

```
ec2-35-165-123-12.us-west-2.compute.amazonaws.com to file /tmp/install.sh.2624/install.sh
ec2-35-165-123-12.us-west-2.compute.amazonaws.com trying wget...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com el 6 x86_64
ec2-35-165-123-12.us-west-2.compute.amazonaws.com Getting information for chef stable 12 for el...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com downloading https://omnitruck-direct.chef.io/stable/chef/metadata?v=12&p=el&pv=6&m=x86_64
ec2-35-165-123-12.us-west-2.compute.amazonaws.com to file /tmp/install.sh.2629/metadata.txt
ec2-35-165-123-12.us-west-2.compute.amazonaws.com trying wget...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com sha1 abe23132483c1ff015148ad72becf092c0fac428
ec2-35-165-123-12.us-west-2.compute.amazonaws.com sha256 bca097d9107bd4b20df88045b676ald032b68a8b66bcf751dabc2e58715ae0ae
ec2-35-165-123-12.us-west-2.compute.amazonaws.com url https://packages.chef.io/files/stable/chef/12.16.42/el/6/chef-12.16.42-1.el6.x86_64.rpm
ec2-35-165-123-12.us-west-2.compute.amazonaws.com version 12.16.42
ec2-35-165-123-12.us-west-2.compute.amazonaws.com downloaded metadata file looks valid...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com downloading https://packages.chef.io/files/stable/chef/12.16.42/el/6/chef-12.16.42-1.el6.x86_64.rpm
ec2-35-165-123-12.us-west-2.compute.amazonaws.com to file /tmp/install.sh.2629/chef-12.16.42-1.el6.x86_64.rpm
ec2-35-165-123-12.us-west-2.compute.amazonaws.com trying wget...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com Comparing checksum with sha256sum...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com Installing chef 12
ec2-35-165-123-12.us-west-2.compute.amazonaws.com installing with rpm...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com warning: /tmp/install.sh.2629/chef-12.16.42-1.el6.x86_64.rpm: Header V4 DSA/SHA1 Signature, key ID 83ef826a: NOKEY
ec2-35-165-123-12.us-west-2.compute.amazonaws.com Preparing... (100%)
##### [100%]
ec2-35-165-123-12.us-west-2.compute.amazonaws.com Updating / installing...
ec2-35-165-123-12.us-west-2.compute.amazonaws.com 1:chef-12.16.42-1.el6 ( 1)
##### [100%]
```


user@localhost: ~/Desktop/chef/chef-repo

File Edit View Search Terminal Help

ec2-35-165-123-12.us-west-2.compute.amazonaws.com Chef Client finished, 0/0 resources updated in 08 seconds

Instance ID: i-3bef9daf
Flavor: t2.micro
Image: ami-5ec1673e
Region: us-west-2
Availability Zone: us-west-2b
Security Groups: default
Security Group Ids: default
Tags: Name: DevOpsVMonAWS
SSH Key: Book
Root Device Type: ebs
Root Volume ID: vol-577065e3
Root Device Name: /dev/xvda
Root Device Delete on Terminate: true

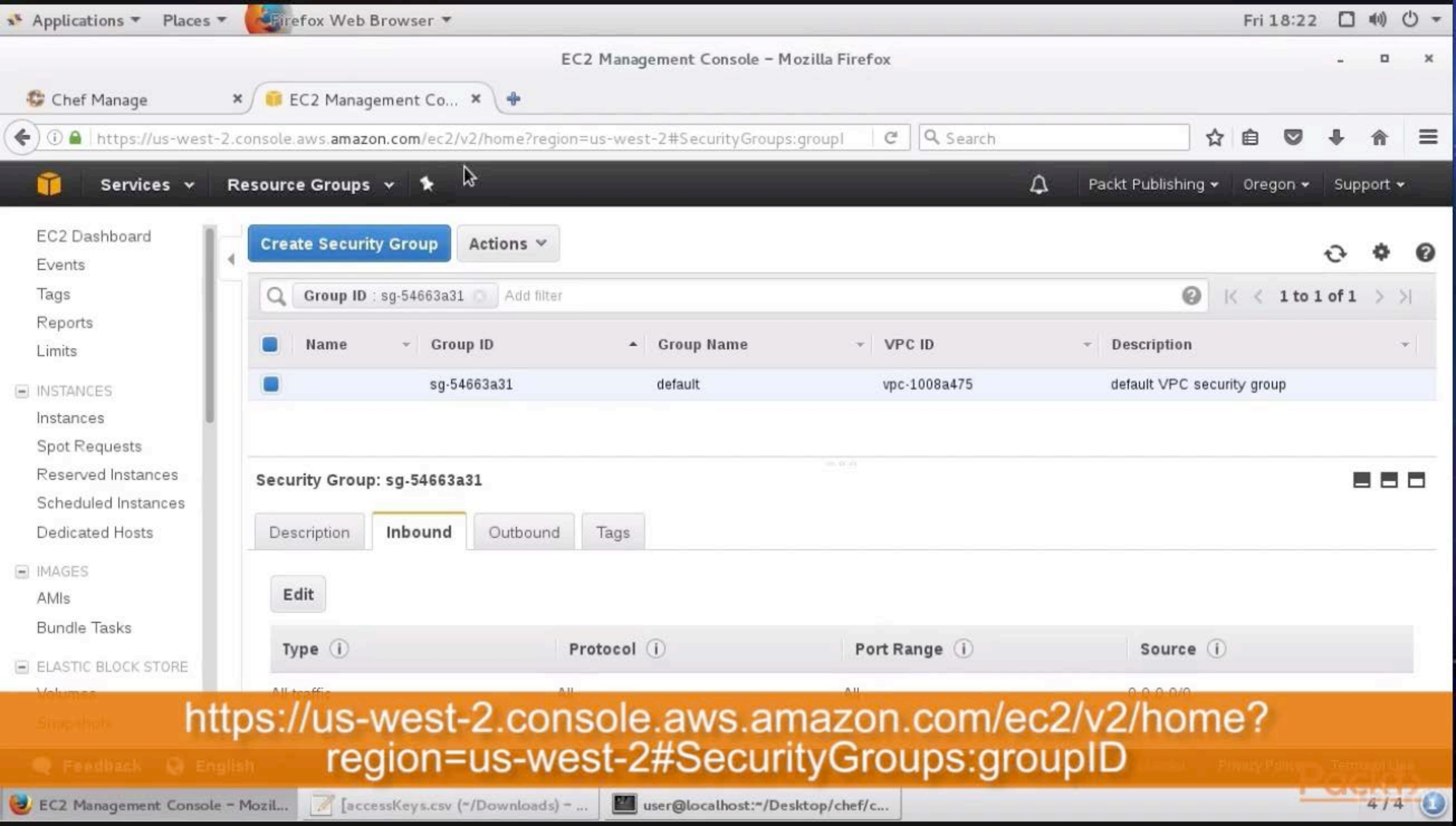
Block devices

=====

Device Name: /dev/xvda
Volume ID: vol-577065e3
Delete on Terminate: true

=====

Public DNS Name: ec2-35-165-123-12.us-west-2.compute.amazonaws.com
Public IP Address: 35.165.123.12
Private DNS Name: ip-172-31-29-225.us-west-2.compute.internal
Private IP Address: 172.31.29.225
Environment: _default
Run List: role[v-tomcat]
[user@localhost chef-repo]\$





Services ▾

Resource Groups ▾



Packt Publishing ▾

Oregon ▾

Support ▾

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Spot Requests

Reserved Instances

Scheduled Instances

Dedicated Hosts

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

Resources

You are using the following Amazon EC2 resources in the US West (Oregon) region:

3 Running Instances	0 Elastic IPs
0 Dedicated Hosts	0 Snapshots
3 Volumes	0 Load Balancers
19 Key Pairs	9 Security Groups
0 Placement Groups	

Just need a simple virtual private server? Get everything you need to jumpstart your project - compute, storage, and networking – for a low, predictable price. Try Amazon Lightsail for free.

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

[Launch Instance](#)

Note: Your instances will launch in the US West (Oregon) region

Account Attributes

Supported Platforms

VPC

Default VPC

vpc-1008a475

Resource ID length management

Additional Information

[Getting Started Guide](#)

[Documentation](#)

[All EC2 Resources](#)

[Forums](#)

[Pricing](#)

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AWS Marketplace

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Spot Requests

Reserved Instances

Scheduled Instances

Dedicated Hosts

IMAGES


AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots



- EC2 Dashboard
- Events
- Tags
- Reports
- Limits
- INSTANCES
- Instances**
- Spot Requests
- Reserved Instances
- Scheduled Instances
- Dedicated Hosts
- IMAGES
- AMIs
- Bundle Tasks
- ELASTIC BLOCK STORE
- Volumes
- Snapshots

Launch Instance **Connect** **Actions ▾** [Icons]

Filter by tags and attributes or search by keyword [?] < 1 to 4 of 4 >

<input type="checkbox"/>	Name ▾	Instance ID ▴	Instance Type ▾	Availability Zone ▾	Instance State ▾	Status Checks ▾	Alarm Status	Public DNS
<input type="checkbox"/>	DevOpsVMo	i-25e99bb1	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-35-163-40-11
<input type="checkbox"/>	DevOpsVMo...	i-3bef9daf	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-35-165-123-12
<input type="checkbox"/>		i-b0f88a24	t2.micro	us-west-2b	terminated		None	
<input type="checkbox"/>	DevOpsVMo...	i-d0e89a44	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-35-163-32-56...

Select an instance above [Icons]

EC2 Management Console - Mozilla Firefox

Chef Manage

EC2 Management Co...

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:sort=instanc

Search



Services ▾

Resource Groups ▾



Packt Publishing ▾

Oregon ▾

Support ▾

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Spot Requests

Reserved Instances

Scheduled Instances

Dedicated Hosts

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

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Connect

Actions ▾

Filter by tags and attributes or search by keyword

1 to 4 of 4

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<input type="checkbox"/>	DevOpsVMo...	i-3bef9daf	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-35-165-123-12...
<input type="checkbox"/>		i-b0f88a24	t2.micro	us-west-2b	terminated		None	
<input type="checkbox"/>	DevOpsVMo...	i-d0e89a44	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-35-163-32-56...

Instance ID i-25e99bb1

Public DNS ec2-35-163-40-11.us-west-2.compute.amazonaws.com

Instance state running

Public IP 35.163.40.11

Instance type t2.micro

Elastic IPs

Private DNS ip-172-31-18-73.us-west-2.compute.internal

Availability zone us-west-2b

Private IPs 172.31.18.73

Security groups default, view inbound rules

Secondary private IPs

Scheduled events No scheduled events

VPC ID vpc-1008a475

AMI ID amzn-ami-hvm-2016.09.0.20161028-

Feedback English

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- > Cookbook
- 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

> 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

- > Nodes
 - Delete
 - Manage Tags
 - Reset Key
 - Edit Run List
 - Edit Attributes

Showing All Nodes Search Nodes...

Node Name	Platform	FQDN	IP Address	Uptime	Last Check-In	Environment	Actions
DevOpsVMonAzure				Unknown	Never	_default	⚙️
DevOps				Unknown	Never	_default	
tomcatserver	centos	localhost	192.168.6.246	3 hours	4 days ago	_default	
DevOpsVMonAzure3				Unknown	Never	_default	

Node: DevOpsVMonAzure

Details Attributes Permissions

Last Check In: **Never**

Uptime: **Unknown**

Environment: **_default**

Platforms:

FQDN:

IP Address:

> Nodes

- Delete
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- Reset Key
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Showing All Nodes

Search Nodes...

Node Name	Platform	FQDN	IP Address	Uptime	Last Check-In	Environment	Actions
DevOpsVMonAzure				Unknown	Never	_default	
DevOps				Unknown	Never	_default	
tomcatserver	centos	localhost	192.168.6.246	3 hours	4 days ago	_default	
DevOpsVMonAzure3				Unknown	Never	_default	
DevOpsVMonAWS	amazon	ip-172-31-29-225.us...	172.31.29.225	a minute	5 minutes ago	_default	⚙️

Node: DevOpsVMonAWS

- Details
- Attributes
- Permissions

Last Check In: **5 Minutes Ago**
2016-12-09 12:50:23 UTC

Uptime: **A Minute**
Since 2016-12-09 12:54:33 UTC

Environment: **_default**

Platforms: amazon

FQDN: ip-172-31-29-225.us-west-2.compute.internal

IP Address: 172.31.29.225

Nodes

Showing All Nodes 🔍 Search Nodes...

Node Name	Platform	FQDN	IP Address	Uptime	Last Check-In	Environment	Actions
DevOpsVMonAzure				Unknown	Never	_default	
DevOps				Unknown	Never	_default	
tomcatserver	centos	localhost	192.168.6.246	3 hours	4 days ago	_default	
DevOpsVMonAzure3				Unknown	Never	_default	
DevOpsVMonAWS	amazon	ip-172-31-29-225.us...	172.31.29.225	a minute	5 minutes ago	_default	⚙️

Tags

+ Add

There are no items to display.

Run List

Expand All Collapse All Edit

v-tomcat

tomcat

Version

Position

...

...

2.3.4

0

> Nodes

- Delete
- Manage Tags
- Reset Key
- Edit Run List
- Edit Attributes

Showing All Nodes

Search Nodes...

Node Name	Platform	FQDN	IP Address	Uptime	Last Check-In	Environment	Actions
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DevOps				Unknown	Never	_default	
tomcatserver	centos	localhost	192.168.6.246	3 hours	4 days ago	_default	
DevOpsVMonAzure3				Unknown	Never	_default	
DevOpsVMonAWS	amazon	ip-172-31-29-225.us...	172.31.29.225	a minute	5 minutes ago	_default	⚙️

Node: DevOpsVMonAWS

- Details
- Attributes
- Permissions

Last Check In: **5 Minutes Ago**
2016-12-09 12:50:23 UTC

Uptime: **A Minute**
Since 2016-12-09 12:54:33 UTC

Environment: **_default**

Platforms: amazon

FQDN: ip-172-31-29-225.us-west-2.compute.internal

IP Address: 172.31.29.225

Nodes

Delete

Manage Tags

Reset Key

Edit Run List

Edit Attributes

Showing All Nodes

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Node Name	Platform	FQDN	IP Address	Uptime	Last Check-In	Environment	Actions
DevOpsVMonAzure				Unknown	Never	_default	
DevOps				Unknown	Never	_default	
tomcatserver	centos	localhost	192.168.6.246	3 hours	4 days ago	_default	
DevOpsVMonAzure3				Unknown	Never	_default	
DevOpsVMonAWS	amazon	ip-172-31-29-225.us...	172.31.29.225	a minute	5 minutes ago	_default	⚙️

Node: DevOpsVMonAWS

Details Attributes Permissions

Attributes

Expand All Collapse All Edit

tags:

- + languages
- + kernel

> Nodes

Delete
Manage Tags
Reset Key
Edit Run List
Edit Attributes

Node: DevOpsVMonAWS

Details Attributes Permissions

Attributes
Expand All Collapse All Edit

tags:
+ languages
+ kernel
+ network
+ counters
 ipaddress: 172.31.29.225
 macaddress: 06:3A:5A:38:83:A7
 ohai_time: 1481287823.937709
+ cpu
+ memory
 ip6address: fe80::43a:5aff:fe38:83a7
 lsb:
 os: linux
 os_version: 4.4.23-31.54.amzn1.x86_64

EC2 Management Console - Mozilla Firefox

Chef Manage

EC2 Management Co...

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:sort=instanc Search



Services ▾

Resource Groups ▾



Packt Publishing ▾

Oregon ▾

Support ▾

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Spot Requests

Reserved Instances

Scheduled Instances

Dedicated Hosts

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

Launch Instance

Connect

Actions ▾

Filter by tags and attributes or search by keyword

1 to 4 of 4

	Name ▾	Instance ID ▴	Instance Type ▾	Availability Zone ▾	Instance State ▾	Status Checks ▾	Alarm Status	Public DNS
<input checked="" type="checkbox"/>	DevOpsVMo...	i-25e99bb1	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-35-163-40-11...
<input type="checkbox"/>	DevOpsVMo...	i-3bef9daf	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-35-165-123-12...
<input type="checkbox"/>		i-b0f88a24	t2.micro	us-west-2b	terminated			
<input type="checkbox"/>	DevOpsVMo...	i-d0e89a44	t2.micro	us-west-2b	running			163-32-56...

Instance state running
Instance type t2.micro
Private DNS ip-172-31-18-73.us-west-2.compute.internal
Private IPs 172.31.18.73
Secondary private IPs
VPC ID vpc-1008a475
Subnet ID subnet-0578dc72
Network interfaces eth0

The security groups to which the instance belongs. A security group is a collection of firewall rules that restrict the network traffic for the instance. Click View rules to see the rules for the specific group.

Security groups default . view inbound rules
Scheduled events No scheduled events
AMI ID amzn-ami-hvm-2016.09.0.20161028-x86_64-gp2 (ami-5ec1673e)
Platform .
IAXX eels

Feedback English

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- Scheduled Instances
- Dedicated Hosts
- IMAGES
 - AMIs
 - Bundle Tasks
- ELASTIC BLOCK STORE
 - Volumes
 - Snapshots
- NETWORK & SECURITY
 - Security Groups**
 - Elastic IPs
 - Placement Groups
 - Key Pairs
 - Network Interfaces
- LOAD BALANCING
 - Load Balancers
 - Target Groups



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Create Security Group Actions ▾

Filter by tags and attributes or search by keyword [?] < 1 to 9 of 9 >

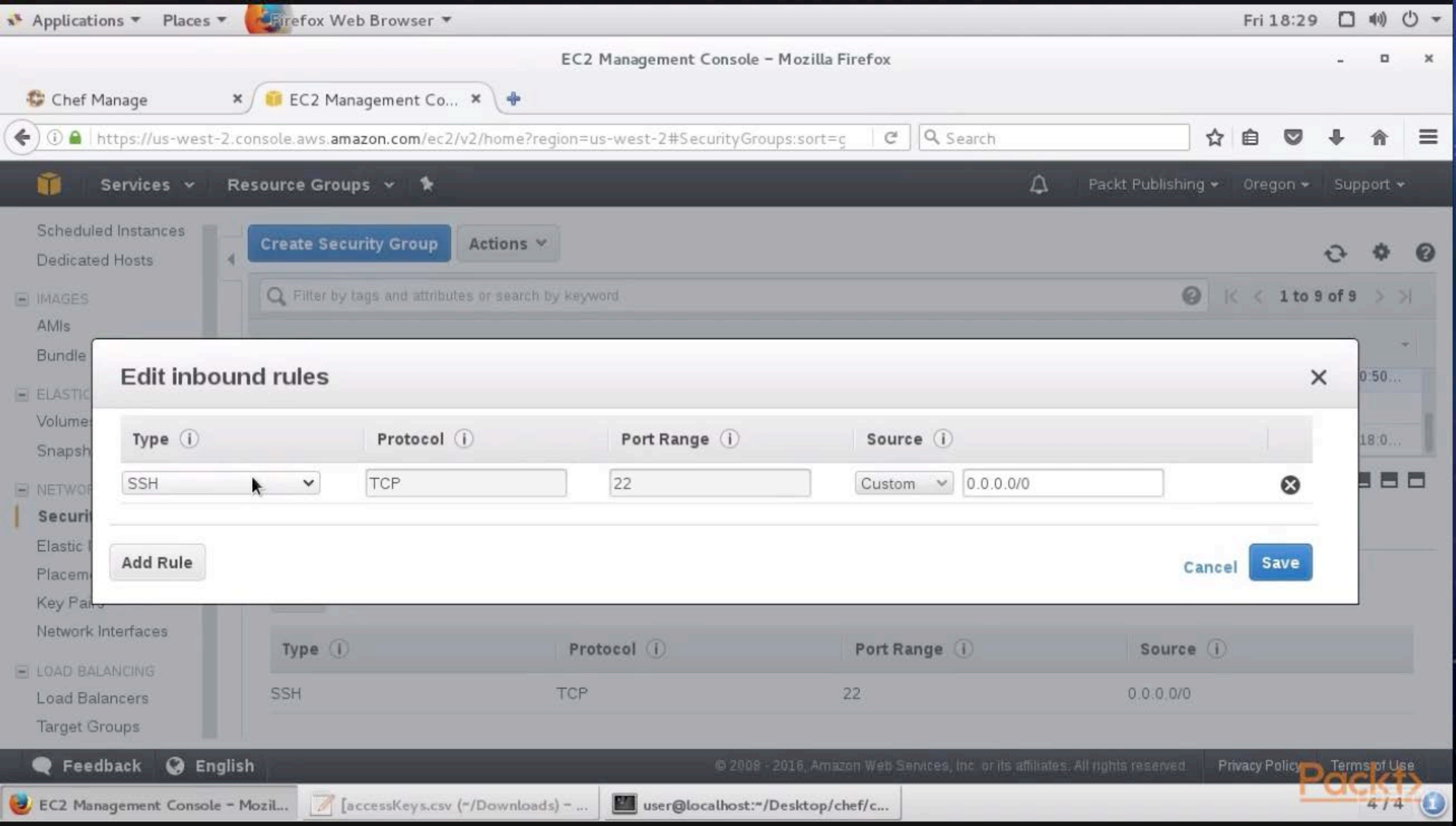
<input type="checkbox"/>	Name ▾	Group ID	Group Name ▾	VPC ID ▾	Description ▾
<input checked="" type="checkbox"/>		sg-b2dd8cd5	launch-wizard-2	vpc-1008a475	launch-wizard-2 created 2016-04-13T10:50...
<input type="checkbox"/>		sg-e1060484	Windows	vpc-1008a475	Windows Security Gorup
<input type="checkbox"/>		sg-f5bf8e90	launch-wizard-12	vpc-1008a475	launch-wizard-12 created 2015-03-18T18:0...

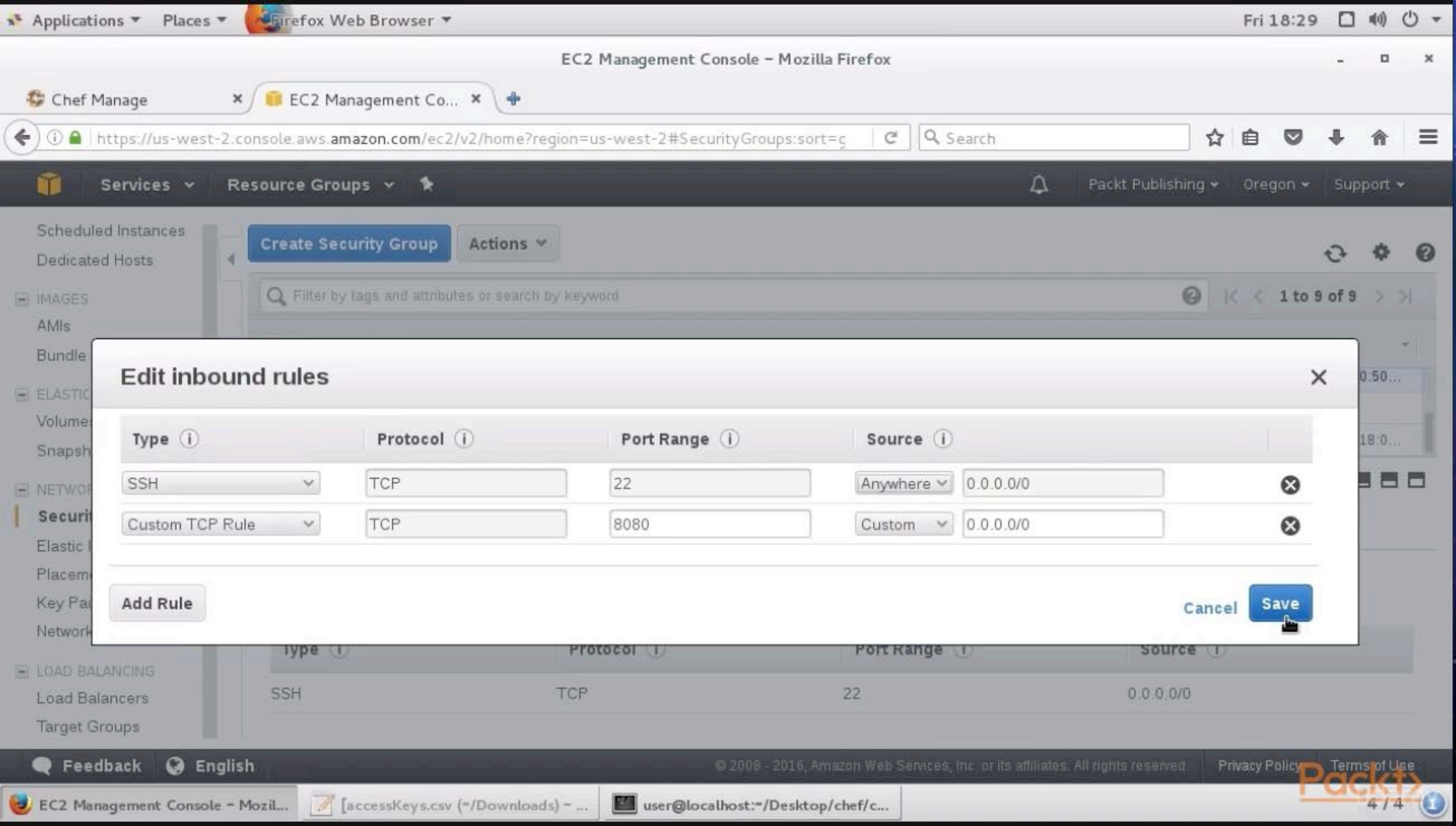
Security Group: sg-b2dd8cd5 [Icons]

Description Inbound Outbound Tags

Edit

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
SSH	TCP	22	0.0.0.0/0





Next Video

Creating and Configuring a Virtual Machine in Microsoft Azure