

Launching an Apache Server on EC2

Launching an Apache Server on EC2

- Let's leverage our EC2 instance
- We'll install an Apache Web Server to display a web page
- We'll create an index.html that shows the hostname of our machine

Launching an Apache Server on EC2

- Let's leverage our EC2 instance
- We'll install an Apache Web Server to display a web page
- We'll create an index.html that shows the hostname of our machine

EC2 Management Console

+

← → ↺

https://eu-west-3.console.aws.amazon.com/ec2/v2/home?region=eu-west-3#instances:sort=instanceId

☆

id

my

add

aws

Services

Resource Groups

🔔

stephane @ datacumulus-cour...

Paris

Support

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Launch Templates

Spot Requests

Reserved 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 Balances

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

1 to 1 of 1

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6
My First Instance	i-6cf81776	t2.micro	eu-west-3c	running	2/2 checks ...	None	ec2-35-180-42-243.eu-...	35.180.42.243	-

Instance: i-6cf81776 (My First Instance)

Public DNS: ec2-35-180-42-243.eu-west-3.compute.amazonaws.com

Description

Status Checks

Monitoring

Tags

Instance ID

Instance state

Instance type

Elastic IPs

Availability zone

Security groups

Scheduled events

AMI ID

Platform

IAM role

Key pair name

Owner

Launch time

i-6cf81776

running

t2.micro

eu-west-3c

my-first-security-group. view inbound rules. view outbound rules

No scheduled events

amzn2-ami-hvm-2.0.20180810-x86_64-gp2 (ami-06340c8c12baa6a09)

-

-

EC2 Tutorial

387124123361

September 19, 2018 at 4:08:35 PM UTC+2 (less than one hour)

Public DNS (IPv4)

IPv4 Public IP

IPv6 IPs

Private DNS

Private IPs

Secondary private IPs

VPC ID

Subnet ID

Network interfaces

Source/dest. check

T2 Unlimited

EBS-optimized

Root device type

ec2-35-180-42-243.eu-west-3.compute.amazonaws.com

35.180.42.243

-

ip-172-31-34-100.eu-west-3.compute.internal

172.31.34.100

vpc-d74714be

subnet-391dc774

eth0

True

Disabled

False

ebs

```
❌ ~/aws-course ➤ ssh -i EC2Tutorial.pem ec2-user@35.180.42.243
The authenticity of host '35.180.42.243 (35.180.42.243)' can't be established.
ECDSA key fingerprint is SHA256:gLqFnUlIDsBNQZFkmzJLGNRTry2CbQ8L2N3ZUU0DTYQ.
Are you sure you want to continue connecting (yes/no)? █
```

```
[ec2-user@ip-172-31-34-100 ~]$ sudo su  
[root@ip-172-31-34-100 ec2-user]# █
```

This Is done to elevate the user so
that they can work on the EC2
Instance

```
[ec2-user@ip-172-31-34-100 ~]$ sudo su  
[root@ip-172-31-34-100 ec2-user]# yum update -y
```

Dependencies Resolved

Package	Arch	Version	Repository	Size
Installing:				
kernel	x86_64	4.14.67-71.56.amzn2	amzn2-core	19 M
Updating:				
amazon-ssm-agent	x86_64	2.3.50.0-1.amzn2	amzn2-core	14 M
dbus	x86_64	1:1.10.24-7.amzn2	amzn2-core	247 k
dbus-libs	x86_64	1:1.10.24-7.amzn2	amzn2-core	169 k
kernel-tools	x86_64	4.14.67-71.56.amzn2	amzn2-core	109 k
libsemanage	x86_64	2.5-11.amzn2	amzn2-core	152 k
mariadb-libs	x86_64	1:5.5.60-1.amzn2	amzn2-core	770 k
policycoreutils	x86_64	2.5-22.amzn2	amzn2-core	867 k
yum	noarch	3.4.3-158.amzn2.0.2	amzn2-core	1.2 M

Transaction Summary

Install 1 Package
Upgrade 8 Packages

Total download size: 36 M

Downloading packages:

Delta RPMs disabled because /usr/bin/applydeltarpm not installed.

(1/9): dbus-1.10.24-7.amzn2.x86_64.rpm | 247 kB 00:00:00

(2/9): dbus-libs-1.10.24-7.amzn2.x86_64.rpm | 169 kB 00:00:00




```
[root@ip-172-31-34-100 ec2-user]# yum install -y httpd.x86_64
```

```

Installing : apr-1.6.3-5.amzn2.x86_64 1/9
Installing : apr-util-bdb-1.6.1-5.amzn2.x86_64 2/9
Installing : apr-util-1.6.1-5.amzn2.x86_64 3/9
Installing : httpd-tools-2.4.34-1.amzn2.1.0.x86_64 4/9
Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch 5/9
Installing : mailcap-2.1.41-2.amzn2.noarch 6/9
Installing : httpd-filesystem-2.4.34-1.amzn2.1.0.noarch 7/9
Installing : mod_http2-1.10.18-1.amzn2.0.x86_64 8/9
Installing : httpd-2.4.34-1.amzn2.1.0.x86_64 9/9
Verifying : apr-1.6.3-5.amzn2.x86_64 1/9
Verifying : apr-util-1.6.1-5.amzn2.x86_64 2/9
Verifying : httpd-filesystem-2.4.34-1.amzn2.1.0.noarch 3/9
Verifying : mod_http2-1.10.18-1.amzn2.0.x86_64 4/9
Verifying : httpd-tools-2.4.34-1.amzn2.1.0.x86_64 5/9
Verifying : httpd-2.4.34-1.amzn2.1.0.x86_64 6/9
Verifying : mailcap-2.1.41-2.amzn2.noarch 7/9
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch 8/9
Verifying : apr-util-bdb-1.6.1-5.amzn2.x86_64 9/9

```

Installed:
 httpd.x86_64 0:2.4.34-1.amzn2.1.0

Dependency Installed:

apr.x86_64 0:1.6.3-5.amzn2	apr-util.x86_64 0:1.6.1-5.amzn2	apr-util-bdb.x86_64 0:1.6.1-5.amzn2
generic-logos-httpd.noarch 0:18.0.0-4.amzn2	httpd-filesystem.noarch 0:2.4.34-1.amzn2.1.0	httpd-tools.x86_64 0:2.4.34-1.amzn2.1.0
mailcap.noarch 0:2.1.41-2.amzn2	mod_http2.x86_64 0:1.10.18-1.amzn2.0	

Complete!
 [root@ip-172-31-34-100 ec2-user]# █

```
[root@ip-172-31-34-100 ec2-user]# systemctl start httpd.service  
[root@ip-172-31-34-100 ec2-user]# systemctl enable httpd.service
```

```
[root@ip-172-31-34-100 ec2-user]# curl localhost:80
```

```
        <p>If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.</p>
```

```
        <p>For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".</p>
```

```
        <hr />
    </div>
```

```
    <div class="content-column-right">
        <h2>If you are the website administrator:</h2>
```

```
        <p>You may now add content to the directory <tt>/var/www/html/</tt>. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file <tt>/etc/httpd/conf.d/welcome.conf</tt>.</p>
```

```
        <p>You are free to use the image below on web sites powered by the Apache HTTP Server:</p>
```

```
        <p align="center"><a href="http://httpd.apache.org/"></a></p>
```

```
    </div>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

```
[root@ip-172-31-34-100 ec2-user]# █
```

EC2 Management Console

https://eu-west-3.console.aws.amazon.com/ec2/v2/home?region=eu-west-3#instances:sort=instanceid

aws

Services

Resource Groups

stephane @ datacumulus-cour...

Paris

Support

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Launch Templates

Spot Requests

Reserved 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

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

1 to 1 of 1

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6
My First Instance	i-6cf81776	t2.micro	eu-west-3c	running	2/2 checks ...	None	ec2-35-180-42-243.eu-...	35.180.42.243	-

Instance: i-6cf81776 (My First Instance)

Public DNS: ec2-35-180-42-243.eu-west-3.compute.amazonaws.com

Description

Status Checks

Monitoring

Tags

Instance ID

i-6cf81776

Instance state

running

Instance type

t2.micro

Elastic IPs

Availability zone

eu-west-3c

Security groups

my-first-security-group. view inbound rules. view outbound rules

Scheduled events

No scheduled events

AMI ID

amzn2-ami-hvm-2.0.20180810-x86_64-gp2 (ami-06340c8c12baa6a09)

Platform

-

IAM role

-

Key pair name

EC2 Tutorial

Owner

387124123361

Launch time

September 19, 2018 at 4:08:35 PM UTC+2 (less than one hour)

Public DNS (IPv4)

ec2-35-180-42-243.eu-west-3.compute.amazonaws.com

IPv4 Public IP

35.180.42.243

IPv6 IPs

-

Private DNS

ip-172-31-34-100.eu-west-3.compute.internal

Private IPs

172.31.34.100

Secondary private IPs

VPC ID

vpc-d74714be

Subnet ID

subnet-391dc774

Network interfaces

eth0

Source/dest. check

True

T2 Unlimited

Disabled

EBS-optimized

False

Root device type

ebs

Copy to clipboard

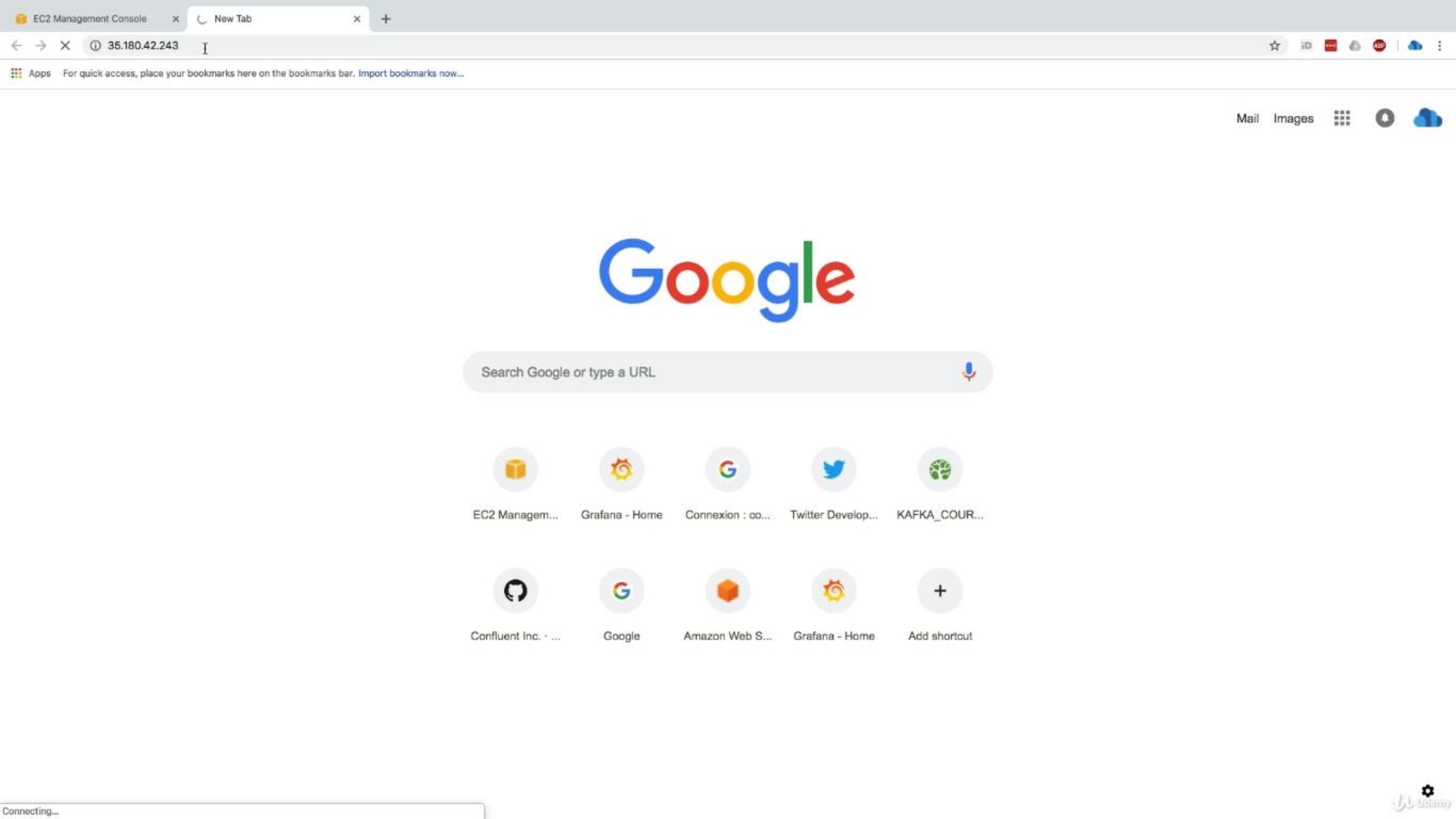
Feedback

English (US)

© 2008 - 2018, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Privacy Policy

Terms of Use



EC2 Management Console

New Tab

https://eu-west-3.console.aws.amazon.com/ec2/v2/home?region=eu-west-3#instances:sort=instanceid

aws

Services

Resource Groups

stephane @ datacumulus-cour...

Paris

Support

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Launch Templates

Spot Requests

Reserved 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

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

1 to 1 of 1

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6
My First Instance	i-6cf81776	t2.micro	eu-west-3c	running	2/2 checks ...	None	ec2-35-180-42-243.eu-...	35.180.42.243	-

Instance: i-6cf81776 (My First Instance)

Public DNS: ec2-35-180-42-243.eu-west-3.compute.amazonaws.com

Description

Status Checks

Monitoring

Tags

Instance ID

Instance state

Instance type

Elastic IPs

Availability zone

Security groups

Scheduled events

AMI ID

Platform

IAM role

Key pair name

Owner

Launch time

i-6cf81776

running

t2.micro

eu-west-3c

my-first-security-group. view inbound rules. view outbound rules

No scheduled events

amzn2-ami-hvm-2.0.20106340c8c12baa6a09)

-

-

EC2 Tutorial

387124123361

September 19, 2018 at 4:08:35 PM UTC+2 (less than one hour)

Public DNS (IPv4)

IPv4 Public IP

IPv6 IPs

Private DNS

Private IPs

Secondary private IPs

Security Groups associated with i-6cf81776

Ports	Protocol	Source	my-first-security-group
22	tcp	0.0.0.0/0	✓

Source/dest. check

T2 Unlimited

EBS-optimized

Root device type

true

Disabled

False

ebs

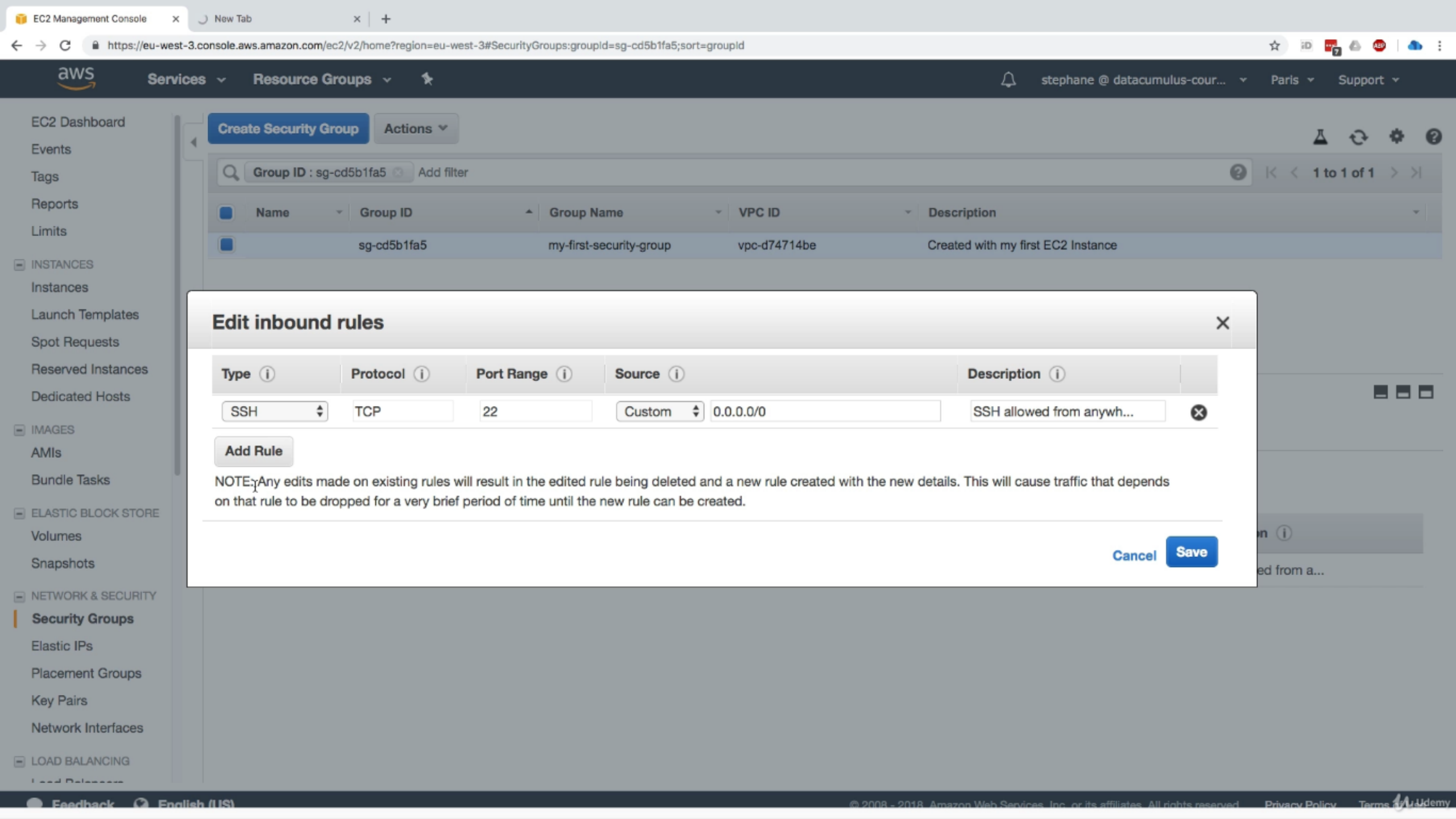
Feedback

English (US)

© 2008 - 2018, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Privacy Policy

Terms of Use



EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Launch Templates

Spot Requests

Reserved 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

Create Security Group

Actions

Group ID : sg-cd5b1fa5 Add filter

Name	Group ID	Group Name	VPC ID	Description
	sg-cd5b1fa5	my-first-security-group	vpc-d74714be	Created with my first EC2 Instance

Edit inbound rules

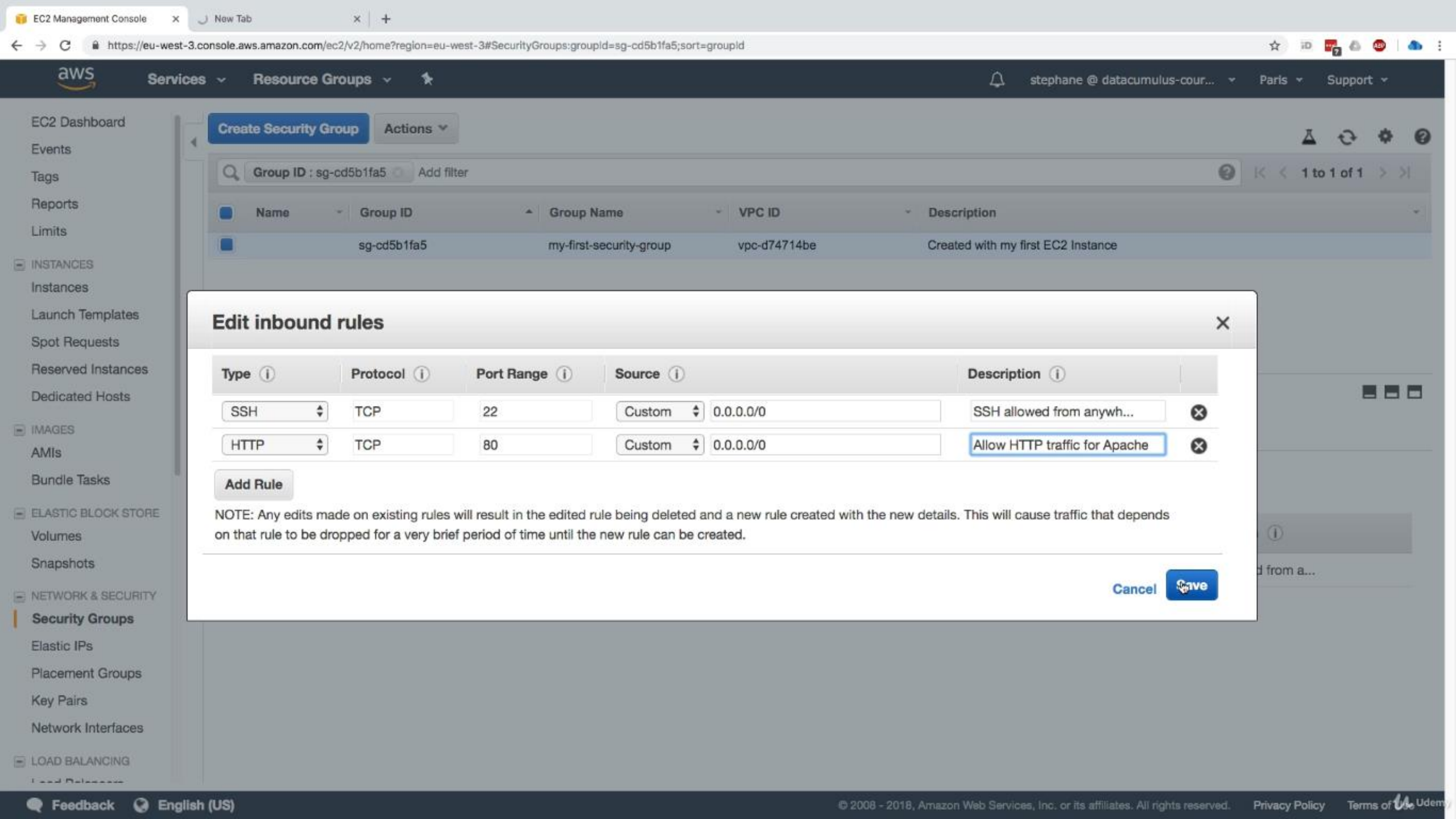
Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	SSH allowed from anywh...

Add Rule

NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

Cancel

Save



Edit inbound rules

Type	Protocol	Port Range	Source	Description	
SSH	TCP	22	Custom 0.0.0.0/0	SSH allowed from anywh...	✕
HTTP	TCP	80	Custom 0.0.0.0/0	Allow HTTP traffic for Apache	✕

Add Rule

NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

Cancel

Save

