


Lab 3

Task 1: Launch Your Amazon EC2 Instance

EC2 > Instances > Launch an instance

 **Success**
Successfully initiated launch of instance (i-01af179d548eb78a3)

[Launch log](#)

Next Steps

Instances (2) [Info](#)

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IF
<input type="checkbox"/>	Web Server	i-01af179d548eb78a3	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-3-238-3-115.comp...	3.238.3.115	-	-
<input type="checkbox"/>	Bastion Host	i-093af7372ca7a833d	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-34-203-194-224.co...	34.203.194.224	-	-

Task 2: Monitor Your Instance

EC2 > Instances > i-01af179d548eb78a3 > Get system log

Get system log [Info](#)

When you experience issues with your EC2 instance, reviewing system logs can help you pinpoint the cause.

System log [Info](#)

Review system log for instance i-01af179d548eb78a3 as of Sun Apr 23 2023 22:46:02 GMT-0700 (Pacific Daylight Time)

[Copy log](#) [Download](#)

```
[ 27.207690] cloud-init[2031]: Verifying : libbrotli-1.0.9-4.amzn2023.0.2.x86_64 9/12
[ 27.308234] cloud-init[2031]: Verifying : httpd-filesystem-2.4.56-1.amzn2023.noarch 10/12
[ 27.322139] cloud-init[2031]: Verifying : generic-logos-httpd-10.0.0-12.amzn2023.0.3.noarch 11/12
[ 27.477532] cloud-init[2031]: Verifying : mailcap-2.1.40-3.amzn2023.0.3.noarch 12/12
[ 27.502062] cloud-init[2031]: Installed:
[ 27.508976] cloud-init[2031]: apr-1.7.2-2.amzn2023.0.2.x86_64
[ 27.518419] cloud-init[2031]: apr-util-1.6.3-1.amzn2023.0.1.x86_64
[ 27.538210] cloud-init[2031]: apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
[ 27.547079] cloud-init[2031]: generic-logos-httpd-10.0.0-12.amzn2023.0.3.noarch
[ 27.566508] cloud-init[2031]: httpd-2.4.56-1.amzn2023.x86_64
[ 27.577495] cloud-init[2031]: httpd-core-2.4.56-1.amzn2023.x86_64
[ 27.618452] cloud-init[2031]: httpd-filesystem-2.4.56-1.amzn2023.noarch
[ 27.637099] cloud-init[2031]: httpd-tools-2.4.56-1.amzn2023.x86_64
[ 27.638407] cloud-init[2031]: libbrotli-1.0.9-4.amzn2023.0.2.x86_64
[ 27.658120] cloud-init[2031]: mailcap-2.1.40-3.amzn2023.0.3.noarch
[ 27.668445] cloud-init[2031]: mod_httpd-2.0.11-2.amzn2023.x86_64
[ 27.698292] cloud-init[2031]: mod_lua-2.4.56-1.amzn2023.x86_64
[ 27.705470] cloud-init[2031]: Complete!
[ 27.751264] cloud-init[2031]: Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ 28.131020] systemd-sysv-generator[2143]: Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ 28.131020] systemd-sysv-generator[2143]: SysV service '/etc/rc.d/init.d/cfn-hup' lacks a native systemd unit file. Automatically generating a unit file for compatibility. Please update package to include a native systemd unit file, in order to make it more safe and robust.
[ 28.131020] systemd-sysv-generator[2143]: SysV service '/etc/rc.d/init.d/cfn-hup' lacks a native systemd unit file. Automatically generating a unit file for compatibility. Please update package to include a native systemd unit file, in order to make it more safe and robust.
```

EC2 > Instances > i-01af179d548eb78a3 > Get instance screenshot

Get instance screenshot [Info](#)

Instance screenshot

i-01af179d548eb78a3 (Web Server) on 2023-04-23 at T22:46:51.826 -0700

```
Amazon Linux 2023
Kernel 5.1.23-36.46.amzn2023.x86_64 on an x86_64 (-)

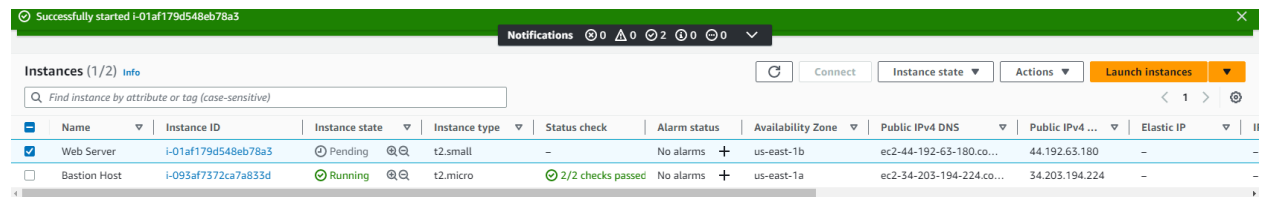
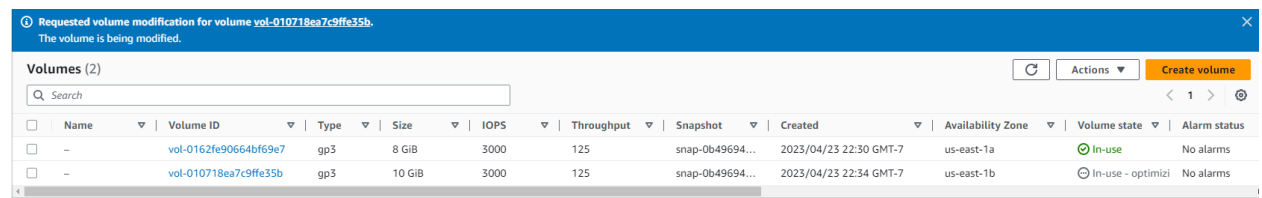
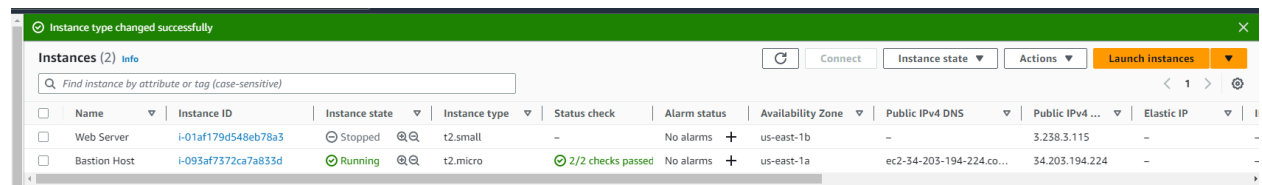
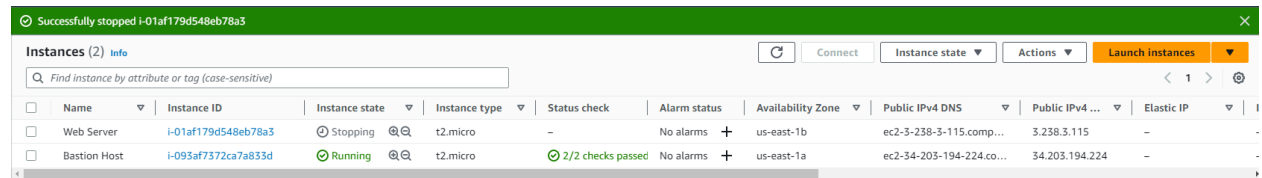
ip-10-0-2-233 login: [ 26.361682] systemd-sysv-generator[2139]: SysV service '/etc/rc.d/init.d/cfn-hup' lacks a native systemd unit file. Automatically generating a unit file for compatibility. Please update package to include a native systemd unit file, in order to make it more safe and robust.
[ 26.131020] systemd-sysv-generator[2143]: SysV service '/etc/rc.d/init.d/cfn-hup' lacks a native systemd unit file. Automatically generating a unit file for compatibility. Please update package to include a native systemd unit file, in order to make it more safe and robust.
```

Task 3: Update Your Security Group and Access the Web Server

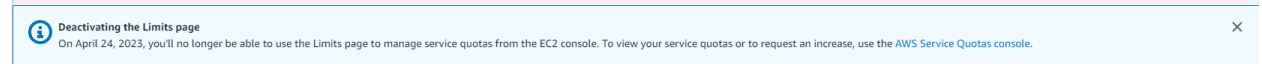


Hello From Your Web Server!

Task 4: Resize Your Instance: Instance Type and EBS Volume



Task 5: Explore EC2 Limits



Limits (13)				
Running instances				
Name	Limit type	Current limit	Description	
Security groups per instance	Running instances	8	The number of security groups per instance	
Security groups	Running instances	-	The total number of security groups for this Region.	
Reserved Instances	Running instances	20	The total number of instances corresponding to new reservations purchased per Availability Zone, per ...	
Running On-Demand All Trn instances	Running instances	0 vCPUs	Running On-Demand Trn instances	
Running On-Demand All Standard (A, ...	Running instances	256 vCPUs	Running On-Demand Standard (A, C, D, H, I, M, R, T, Z) instances	

Task 6: Test Termination Protection

Failed to terminate an instance: The instance 'i-01af179d548eb78a3' may not be terminated. Modify its 'disableApiTermination' instance attribute and try again.

Instances (1/2) Info

Connect

Instance state

Actions

Launch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IF
<input checked="" type="checkbox"/> Web Server	i-01af179d548eb78a3	Running	t2.small	Initializing	No alarms	us-east-1b	ec2-44-192-63-180.co...	44.192.63.180	-	-
<input type="checkbox"/> Bastion Host	i-093af7372ca7a833d	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-34-203-194-224.co...	34.203.194.224	-	-

Successfully terminated i-01af179d548eb78a3

Notifications 1 0 2 0 0 0

Instances (1/2) Info

Connect

Instance state

Actions

Launch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IF
<input checked="" type="checkbox"/> Web Server	i-01af179d548eb78a3	Shutting-down	t2.small	Initializing	No alarms	us-east-1b	ec2-44-192-63-180.co...	44.192.63.180	-	-
<input type="checkbox"/> Bastion Host	i-093af7372ca7a833d	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-34-203-194-224.co...	34.203.194.224	-	-

End Lab

Region: us-east-1
Lab ID: arn:aws:cloudformation:us-east-1:569328863455:stack/c79767a166592113992054t1w569328863455/bc6cfb30-e260-11ed-89a5-0eb19aaeb30f
Creation Time: 2023-04-23T22:27:42-0700
You may close this message box now. Lab resources are terminating ...