

This is my lab work screenshots on how to test the instance termination protection which is required for the ACF lab 3 on week 2.

The first screenshot shows the 'Launch instance' wizard in the AWS Management Console. The 'Network settings' tab is selected, showing the VPC (vpc-0b516bae63224f12e), Subnet (subnet-090a8e3c849d8e496), and Firewall (security group) configuration. The 'Summary' tab on the right shows the instance configuration: 1 instance, Amazon Linux 2023 AMI, t2.micro instance type, New security group, and 1 volume (8 GiB). A 'Free tier' warning is displayed, indicating that the instance will be charged after the first year. The 'Launch instance' button is visible.

The second screenshot shows the 'Launch instance' page after successful launch. A green success message states: 'Successfully initiated launch of instance (i-0e80bbac050d2a5a6)'. Below this, the 'Next Steps' section provides a list of recommended actions for managing the instance, including creating billing alerts, connecting to the instance, connecting to an RDS database, creating EBS snapshot policy, managing detailed monitoring, creating a Load Balancer, creating an AWS budget, and managing CloudWatch alarms.

Week2: ACF Lab 3: Introduction

Lab 3 - Introduction to Amazon

Instances | EC2 Management Co

Week2: ACF Lab 3: Introduction

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

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Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IF
Bastion Host	i-0d9a777bcb795c6a5	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-52-87-171-241.co...	52.87.171.241	-	-
Web server	i-0e80bbac050d2a5a6	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-107-22-134-113.co...	107.22.134.113	-	-

Instance: i-0e80bbac050d2a5a6 (Web server)

DetailsSecurityNetworkingStorageStatus checksMonitoringTags

Instance summary Info

Instance ID

i-0e80bbac050d2a5a6 (Web server)

IPv6 address

-

Hostname type

IP name: ip-10-0-1-51.ec2.internal

Answer private resource DNS name

-

Auto-assigned IP address

107.22.134.113 [Public IP]

Public IPv4 address

107.22.134.113 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-10-0-1-51.ec2.internal

Instance type

t2.micro

VPC ID

vpc-0b516bae63224f12e (Lab VPC)

Private IPv4 addresses

10.0.1.51

Public IPv4 DNS

ec2-107-22-134-113.compute-1.amazonaws.com | open address

Elastic IP addresses

-

AWS Compute Optimizer finding

Opt-in to AWS Compute Optimizer for recommendations. | Learn more

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Instances (1/2) Info

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Bastion Host	i-0d9a777bcb795c6a5	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-52-87-171-241.co...	52.87.171.241	-	-
Web server	i-0e80bbac050d2a5a6	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-107-22-134-113.co...	107.22.134.113	-	-

Instance: i-0e80bbac050d2a5a6 (Web server)

DetailsSecurityNetworkingStorageStatus checksMonitoringTags

Status checks Info

Status checks detect problems that may impair i-0e80bbac050d2a5a6 (Web server) from running your applications.

System status checks

System reachability check passed

Report the instance status if our checks do not reflect your experience with this instance or if they do not detect issues you are having.

Report instance status

Instance status checks

Instance reachability check passed

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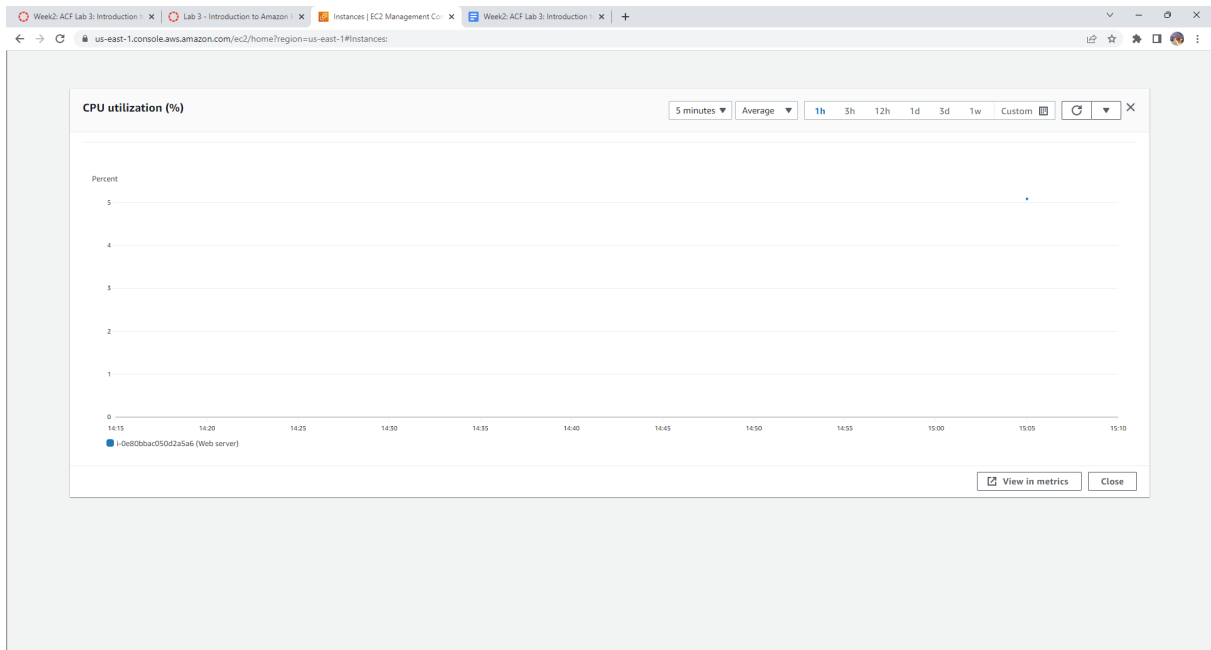
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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#GetSystemLog?instanceId=i-0e80bbac050d2a5a6

Services | Search | [Alt+] | N. Virginia | voclabs/awr2553392-104177513@student.swin.edu.au @ 1919-6004...

Get system log

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

System log

Review system log for instance i-0e80bbac050d2a5a6 as of Sat May 13 2023 22:16:03 GMT+0700 (Giã Độc Dươn)

Copy log | Download

```
[ 34.327242] cloud-init[2070]: Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ 34.617592] systemd-sysv-generator[3386]: 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 t
ci-Info: +++++Authorized keys from /home/ec2-user/.ssh/authorized_keys for user ec2-user+++++
ci-Info: |-----|
ci-Info: | Keytype |                               | Fingerprint (sha256) |                               | Options | Comment |
ci-Info: |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
ci-Info: | ssh-rsa | 32:00:a7:25:fa:40:62:44:37:b9:32:e9:30:56:2a:9f:a0:9f:54:fb:a5:c8:9b:a8:fe:81:1c:3d:db:c6:8b:d6 | - | vockey |
ci-Info: |-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
<14>May 13 15:11:50 cloud-init: #####
<14>May 13 15:11:50 cloud-init: -----BEGIN SSH HOST KEY FINGERPRINTS-----
<14>May 13 15:11:50 cloud-init: 256 SHA256:p01Jk0dt0a0B9oxfKkCk99QFwt6v6Cd74gn17ICA root@ip-10-0-1-51.ec2.internal (ECDSA)
<14>May 13 15:11:50 cloud-init: 256 SHA256:d9tV9Kvdsmqj58bCcgrkHfM0Hf1marcd335onQk root@ip-10-0-1-51.ec2.internal (ED25519)
<14>May 13 15:11:50 cloud-init: -----END SSH HOST KEY FINGERPRINTS-----
<14>May 13 15:11:50 cloud-init: #####
-----BEGIN SSH HOST KEY KEYS-----
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdGl5NTYAAAAIbmlzdGl5NTYAAABBCnSp0RRCX32zh9Na7bWk7Qp25dJ564oz6ng9J175iaW6p7tthVJke1VebsVhJ56jnz0R0K3dbA1toZI- root@ip-10-0-1-51.ec2.internal
ssh-ed25519 AAAAC3NzaC11ZD1NTESAAAAIInkMgPkw2ttxdIvn18P3a1f5QwC9b15fT11+S2Ywz root@ip-10-0-1-51.ec2.internal
-----END SSH HOST KEY KEYS-----
[ 35.221833] cloud-init[2070]: Cloud-init v. 22.2.2 finished at Sat, 13 May 2023 15:11:50 +0000. DataSource DataSourceEc2. Up 35.21 seconds
```

For boot or networking issues, use the EC2 serial console for troubleshooting. Choose the Connect button to start a session.

Connect

Cancel

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#GetInstanceScreenshot?instanceId=i-0e80bbac050d2a5a6

RWS Services Search [Alt+S]

EC2 > Instances > i-0e80bbac050d2a5a6 > Get instance screenshot

Get instance screenshot [Info](#)

Instance screenshot

Download

```
Amazon Linux 2023
Kernel 6.1.25-37.47.amzn2023.x86_64 on an x86_64 (-)

ip-10-0-0-1-51 login: [ 33.268507] systemd-sysv-generator[2166]: 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.
[ 34.617592] systemd-sysv-generator[3386]: 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.
```

For boot or networking issues, use the EC2 serial console for troubleshooting. Choose the **Connect** button to start a session.

Connect

Cancel

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroups:

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Inbound security group rules successfully modified on security group (sg-038104ff7bdf7e88 | Web Server security group)

Details

Security Groups (1/5) [Info](#)

Filter security groups

Create security group

	Name	Security group ID	Security group name	VPC ID	Description	Owner	Inbound rules count	Outbound rules co...
<input type="checkbox"/>	-	sg-06c77d2797b6ad915	EC2SecurityGroup	vpc-07239f9ef207f05ba	VPC Security Group	191960045330	1 Permission entry	1 Permission entry
<input type="checkbox"/>	-	sg-0bbbd237e77240302	default	vpc-07239f9ef207f05ba	default VPC security gr...	191960045330	1 Permission entry	1 Permission entry
<input type="checkbox"/>	-	sg-02b2dbd10fdea2255	default	vpc-035632be9c315fdae	default VPC security gr...	191960045330	1 Permission entry	1 Permission entry
<input type="checkbox"/>	-	sg-0e92ca1d0f911dbe	default	vpc-0b516bae63224f12e	default VPC security gr...	191960045330	1 Permission entry	1 Permission entry
<input checked="" type="checkbox"/>	-	sg-038104ff7bdf7e88	Web Server security gr...	vpc-0b516bae63224f12e	Security group for my ...	191960045330	1 Permission entry	1 Permission entry

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Inbound rules (1/1)

Filter security group rules

Manage tags

Edit inbound rules

	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input checked="" type="checkbox"/>	-	sg-r-04ae55ec4ee9f76f	IPv4	HTTP	TCP	80	0.0.0.0/0	-

Hello From Your Web Server!

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Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IF
Bastion Host	i-0d9a777bcb795c6a5	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-52-87-171-241.co...	52.87.171.241	-	-
Web server	i-0e80bbac050d2a5a6	Stopped	t2.micro	-	No alarms	us-east-1a	-	107.22.134.113	-	-

Instance: i-0e80bbac050d2a5a6 (Web server)

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance summary Info

Instance ID i-0e80bbac050d2a5a6 (Web server)	Public IPv4 address -	Private IPv4 addresses 10.0.1.51
IPv6 address -	Instance state Stopped	Public IPv4 DNS -
Hostname type IP name: ip-10-0-1-51.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-1-51.ec2.internal	Elastic IP addresses -
Answer private resource DNS name -	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address -	VPC ID vpc-0b516bae63224f12e (Lab VPC)	

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes

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Volumes (2) info

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm state
<input type="checkbox"/>	-	vol-0e64327185a361ee0	gp3	8 GiB	3000	125	snap-06c467d...	2023/05/13 22:02 GMT+7	us-east-1a	In-use	No alarms
<input type="checkbox"/>	-	vol-073a0db8a1d5c0b01	gp3	10 GiB	3000	125	snap-06c467d...	2023/05/13 22:10 GMT+7	us-east-1a	In-use - optimizi	No alarms

Select a volume above

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Failed to terminate an instance: The instance 'i-0e80bbac050d2a5a6' may not be terminated. Modify its 'DisableApiTermination' instance attribute and try again.

Instances (1/2) info

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	Bastion Host	i-0d9a777bcb795c6a5	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-52-87-171-241.co...	52.87.171.241	-
<input checked="" type="checkbox"/>	Web server	i-0e80bbac050d2a5a6	Running	t2.small	2/2 checks passed	No alarms	us-east-1a	ec2-3-90-109-124.com...	3.90.109.124	-

Instance: i-0e80bbac050d2a5a6 (Web server)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary info

Instance ID i-0e80bbac050d2a5a6 (Web server)	Public IPv4 address 3.90.109.124 open address	Private IPv4 addresses 100.1.51
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-3-90-109-124.compute-1.amazonaws.com open address
Hostname type IP name: ip-10-Q-1-S1.ec2.internal	Private IP DNS name (IPv4 only) ip-10-Q-1-S1.ec2.internal	Elastic IP addresses -
Answer private resource DNS name -	Instance type t2.small	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address 3.90.109.124 [Public IP]	VPC ID vpc-0b516bae63224f12e (Lab VPC)	

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Successfully terminated i-Oe80bbac050d2a5a6

Notifications

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0

Instances (1/2) info

Find instance by attribute or tag (case-sensitive)

Connect

Instance state

Actions

Launch instances

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	Bastion Host	i-Od9a777bcb795c6a5	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-52-87-171-241.co...	52.87.171.241	-
<input checked="" type="checkbox"/>	Web server	i-Oe80bbac050d2a5a6	Shutting-down	t2.small	2/2 checks passed	No alarms	us-east-1a	-	3.90.109.124	-

Instance: i-Oe80bbac050d2a5a6 (Web server)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary info

Instance ID

i-Oe80bbac050d2a5a6 (Web server)

IPv6 address

-

Hostname type

-

IP name:

Answer private resource DNS name

-

Auto-assigned IP address

-

Public IPv4 address

3.90.109.124 | open address

Instance state

Shutting-down

Private IP DNS name (IPv4 only)

ip-10-0-1-51.ec2.internal

Instance type

t2.small

VPC ID

vpc-0b516bae63224f12e (Lab VPC)

Private IPv4 addresses

-

Public IPv4 DNS

-

Elastic IP addresses

-

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