

# AWS\_LAB03

1- Launch a jump host Take a screenshot while you are ssh to the jumphost also When you ssh from bastion to the private machine screenshot from the console showing the instances Ips.

The screenshot displays the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and the current region (N. Virginia) and account ID (test-sprints-console @ 9092-6361-5116). The left sidebar shows the navigation menu with options like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and Instances. The main content area shows the 'Instances (1)' page with a table listing the instances. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. The instance 'jumb-host' is listed with Instance ID 'i-0e85871c0e19a6094', state 'Running', type 't2.micro', and status '2/2 checks passed'. Below the table, there is a 'Select an instance' dialog box. The bottom section of the screenshot shows the 'Instance summary for i-0e85871c0e19a6094 (jumb-host)' page. This page provides detailed information about the instance, including its ID, Public IPv4 address (44.200.70.2), Private IPv4 addresses (10.0.0.26), Instance state (Running), Hostname type (ip-10-0-0-26.ec2.internal), Answer private resource DNS name (IPv4 (A)), Auto-assigned IP address (44.200.70.2 [Public IP]), IAM Role, Subnet ID, VPC ID (vpc-009aa47f28fee67c9), and Elastic IP addresses. The page also includes links to 'open address', 'Learn more', and 'Opt-in to AWS Compute Optimizer for recommendations'.

**Instances (1)**

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
jumb-host	i-0e85871c0e19a6094	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a

**Select an instance**

**Instance summary for i-0e85871c0e19a6094 (jumb-host)**

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Instance ID i-0e85871c0e19a6094 (jumb-host)	Public IPv4 address 44.200.70.2   <a href="#">open address</a>	Private IPv4 addresses 10.0.0.26
IPv6 address -	Instance state Running	Public IPv4 DNS -
Hostname type IP name: ip-10-0-0-26.ec2.internal	Private IP DNS name (IPv4 only) ip-10-0-0-26.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. <a href="#">Learn more</a>
Auto-assigned IP address 44.200.70.2 [Public IP]	VPC ID vpc-009aa47f28fee67c9 (Task03)	Auto Scaling Group name
IAM Role	Subnet ID	

```
ec2-user@ip-10-0-0-26:~  
File Edit View Search Terminal Help  
It is required that your private key files are NOT accessible by others.  
This private key will be ignored.  
Load key "Task03-M1.pem": bad permissions  
ec2-user@44.200.70.2: Permission denied (publickey,gssapi-keyex,gssapi-with-mic)  
.  
[root@localhost ~]# ssh -i Task03-M1.pem ec2-user@44.200.70.2  
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@  
@                WARNING: UNPROTECTED PRIVATE KEY FILE!                @  
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@  
Permissions 0644 for 'Task03-M1.pem' are too open.  
It is required that your private key files are NOT accessible by others.  
This private key will be ignored.  
Load key "Task03-M1.pem": bad permissions  
ec2-user@44.200.70.2: Permission denied (publickey,gssapi-keyex,gssapi-with-mic)  
.  
[root@localhost ~]# chmod 400 Task03-M1.pem  
[root@localhost ~]# ssh -i Task03-M1.pem ec2-user@44.200.70.2  
  
      _ _ | ( _ _ | )  
      _ | ( _ _ | /   Amazon Linux 2 AMI  
      _ | \ _ _ | _ |  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-10-0-0-26 ~]$
```

aws

Services

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New EC2 Experience  
Tell us what you think

EC2 Dashboard  
EC2 Global View  
Events  
Tags  
Limits

Instances  
Instances  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances  
Dedicated Hosts  
Scheduled Instances

Instances (1/2) Info

Connect

Instance state

Actions

Launch instances

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	jumb-host	i-0e85871c0e19a6094	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input checked="" type="checkbox"/>	private-machine	i-06482c308e0cf67db	Pending	t2.micro	-	No alarms	us-east-1a

Instance: i-06482c308e0cf67db (private-machine)

DetailsSecurityNetworkingStorageStatus checksMonitoringTags

Instance summary Info

Instance ID i-06482c308e0cf67db (private-machine)	Public IPv4 address -	Private IPv4 addresses 10.0.0.9
IPv6 address -	Instance state Pending	Public IPv4 DNS -

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elas

Highlight All Match Case Match Diacritics Whole Words 1 of 3 matches

```
ec2-user@ip-10-0-0-26:~  
File Edit View Search Terminal Help  
[root@localhost ~]# scp -i Task03-M1.pem Task03-M1.pem ec2-user@44.200.70.2:/home/ec2-user/  
Task03-M1.pem 100% 1679 8.5KB/s 00:00  
[root@localhost ~]# ssh -i Task03-M1.pem ec2-user@44.200.70.2  
Last login: Sat Dec 24 14:45:01 2022 from 154.189.119.94  
  
 _ _ | _ _ | _ )  
 _ | ( _ _ / Amazon Linux 2 AMI  
 _ | \ _ _ | _ _ |  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-10-0-0-26 ~]$ ls  
Task03-M1.pem  
[ec2-user@ip-10-0-0-26 ~]$
```

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EC2 Global View  
Events  
Tags  
Limits

Instances  
Instances  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances  
Dedicated Hosts  
Scheduled Instances

Instances (1/2) Info

Connect Instance state Actions Launch instances

Find instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	jumb-host	i-0e85871c0e19a6094	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input checked="" type="checkbox"/>	private-machine	i-06482c308e0cf67db	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a

Instance: i-06482c308e0cf67db (private-machine)

Instance ID  
i-06482c308e0cf67db (private-machine)

IPv6 address  
-

Hostname type  
IP name: ip-10-0-0-9.ec2.internal

Answer private resource DNS name

Public IPv4 address  
-

Instance state  
Running

Private IP DNS name (IPv4 only)  
ip-10-0-0-9.ec2.internal

Instance type

Private IPv4 addresses  
10.0.0.9

Public IPv4 DNS  
-

Elastic IP addresses

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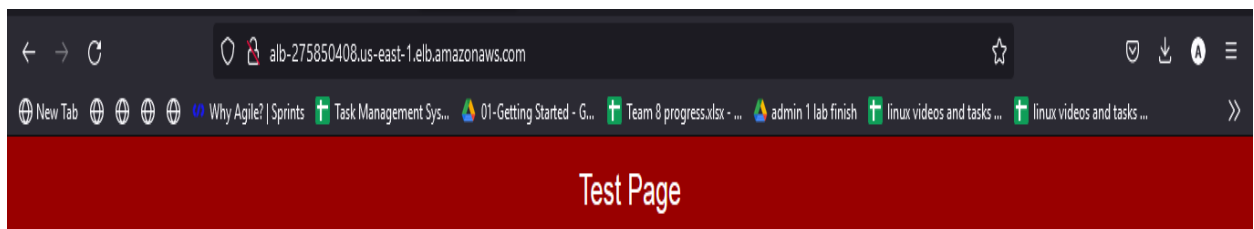
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```
ec2-user@ip-10-0-0-9:~  
File Edit View Search Terminal Help  
[ec2-user@ip-10-0-0-26 ~]$ ssh -i Task03-M1.pem ec2-user@10.0.0.9  
  
  _ | _ | _ )  
 _ | ( _ | /  Amazon Linux 2 AMI  
__| \__| __|  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-10-0-0-9 ~]$
```

**2- Implement the below diagram then take a screenshot while you put dns of the load balancer into the browser and it returns a response from the 2 apache instances Also Screenshot from the console showing the machines BE WS have private Ips And finally a screenshot showing the targets of the 2 loadbalancers target groups are healthy.**



This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

**If you are a member of the general public:**

The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

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.

For example, if you experienced problems while visiting [www.example.com](http://www.example.com), you should send e-mail to "[webmaster@example.com](mailto:webmaster@example.com)".

**If you are the website administrator:**

You may now add content to the directory `/var/www/html/`. 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 `/etc/httpd/conf.d/welcome.conf`.

You are free to use the image below on web sites powered by the Apache HTTP Server:

[\[ Powered by Apache \]](#)

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▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

▼ Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

▼ Load Balancing

Load Balancers

Target Groups

▼ Auto Scaling

Launch Configurations

Auto Scaling Groups

EC2 > Load balancers > ALB

ALB

Actions ▼

▼ Details

arn:aws:elasticloadbalancing:us-east-1:909263615116:loadbalancer/app/ALB/2f9afe484f6dc333

Load balancer type	DNS name	Status	VPC
Application	ALB-275850408.us-east-1.elb.amazonaws.com (A Record)	Active	vpc-081e4ebaff97f7bf9
IP address type	Scheme	Availability Zones	Hosted Zone
IPv4	Internet-facing	subnet-0bb27fa2b7112f6cc us-east-1c (use1-az4) subnet-0c406593f42e2d705 us-east-1b (use1-az2)	Z35SXDOTRQ7X7K
Created At	December 29, 2022, 14:47 (UTC+02:00)		

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Volumes

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▼ Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

▼ Load Balancing

Load Balancers

Target Groups

▼ Auto Scaling

Launch Configurations

Auto Scaling Groups

EC2 > Load balancers > NLB

NLB

Actions ▼

▼ Details

arn:aws:elasticloadbalancing:us-east-1:909263615116:loadbalancer/net/NLB/169b197b764c34be

Load balancer type	DNS name	Status	VPC
Network	NLB-169b197b764c34be.elb.us-east-1.amazonaws.com (A Record)	Active	vpc-081e4ebaff97f7bf9
IP address type	Scheme	Availability Zones	Hosted Zone
IPv4	Internal	subnet-08fb8ced9e6b69517 us-east-1b (use1-az2) subnet-06eeeb1e92fa725cc us-east-1c (use1-az4)	Z26RNL4JYFTOTI
Created At	December 29, 2022, 14:53 (UTC+02:00)		

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EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

EC2 > Instances > i-06ea97ae23ac49e1b

Instance summary for i-06ea97ae23ac49e1b (BE-WS01)

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Refresh

Connect

Instance state

Actions

Instance ID	Public IPv4 address	Private IPv4 addresses
i-06ea97ae23ac49e1b (BE-WS01)	-	10.0.1.133
IPv6 address	Instance state	Public IPv4 DNS
-	Running	-
Hostname type	Private IP DNS name (IPv4 only)	
IP name: ip-10-0-1-133.ec2.internal	ip-10-0-1-133.ec2.internal	
Answer private resource DNS name	Instance type	Elastic IP addresses
IPv4 (A)	t2.micro	-
Auto-assigned IP address	VPC ID	AWS Compute Optimizer finding
-	vpc-081e4ebaff97f7bf9 (ALB)	Opt-in to AWS Compute Optimizer for recommendations.
		Learn more
IAM Role	Subnet ID	Auto Scaling Group name
-	subnet-08fb8ced9e6b69517 (BE-WS1)	-

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New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

EC2 > Instances > i-077231904fb5b4b3d

Instance summary for i-077231904fb5b4b3d (BE-WS02)

Updated less than a minute ago

Refresh

Connect

Instance state

Actions

Instance ID	Public IPv4 address	Private IPv4 addresses
i-077231904fb5b4b3d (BE-WS02)	-	10.0.3.149
IPv6 address	Instance state	Public IPv4 DNS
-	Running	-
Hostname type	Private IP DNS name (IPv4 only)	
IP name: ip-10-0-3-149.ec2.internal	ip-10-0-3-149.ec2.internal	
Answer private resource DNS name	Instance type	Elastic IP addresses
IPv4 (A)	t2.micro	-
Auto-assigned IP address	VPC ID	AWS Compute Optimizer finding
-	vpc-081e4ebaff97f7bf9 (ALB)	Opt-in to AWS Compute Optimizer for recommendations.
		Learn more
IAM Role	Subnet ID	Auto Scaling Group name
-	subnet-06eeeb1e92fa725cc (BE-WS2)	-

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EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

EC2 > Target groups > NLB

NLB

Actions

Details

arn:aws:elasticloadbalancing:us-east-1:909263615116:targetgroup/NLB/e442e9bf4b1f6b11

Target type	Protocol : Port	VPC	IP address type
Instance	TCP: 80	vpc-081e4ebaff97f7bf9	IPv4
Load balancer	NLB		

Total targets	Healthy	Unhealthy	Unused	Initial	Draining
2	2	0	0	0	0

Targets

Monitoring

Health checks

Attributes

Tags

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EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

EC2 > Target groups > ALB

ALB

Actions

Details

arn:aws:elasticloadbalancing:us-east-1:909263615116:targetgroup/ALB/56656296577aabec

Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP: 80	HTTP1	vpc-081e4ebaff97f7bf9
IP address type	Load balancer		
IPv4	ALB		

Total targets	Healthy	Unhealthy	Unused	Initial	Draining
2	2	0	0	0	0

Targets

Monitoring

Health checks

Attributes

Tags

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