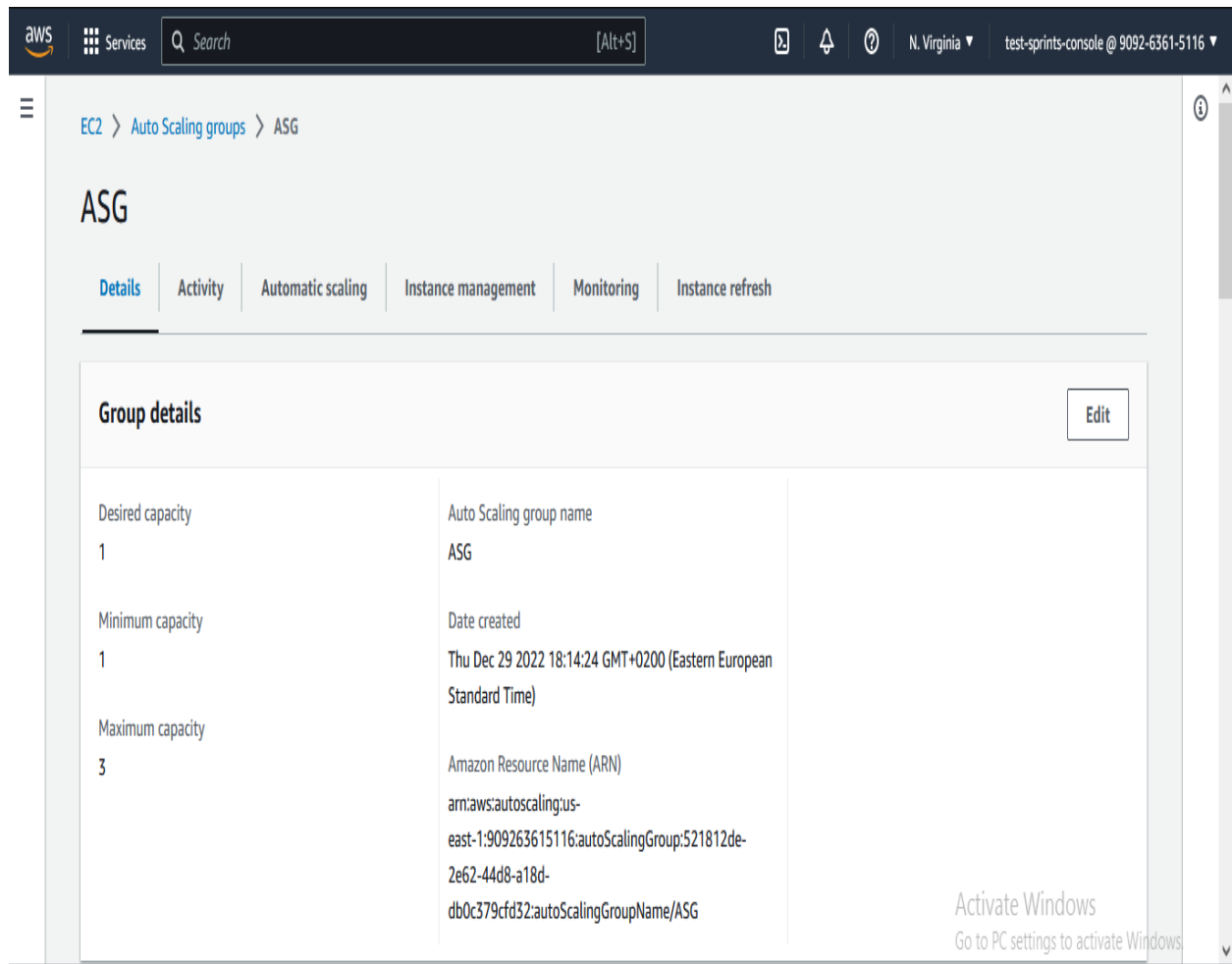# Lab04

1- **Needed : A screenshot from the autoscaling group after indicating the minimum ,maximum and desired instances Screenshot from the 2 target groups indicating the machines are healthy Screenshot indicate the the machines BE WS are private Screenshot from the public load balancer when you hit a request from it from a browser with a response returned from the instances**

▼ 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 > Auto Scaling groups > ASG

ASG

Details   Activity   Automatic scaling   **Instance management**   Monitoring   Instance refresh

Instances (1)

     Actions ▼

Q Filter instances

< 1 >

	Instance ID ▲	Lifecycle ▽	Instanc... ▽	Weight... ▽	Launch... ▽	Availab... ▽	Health ... ▽
☐	i-02e86bda3e2b83d8b ☒	InService	t2.micro	-	Task01 ☒ | Ver	us-east-1c	⊘ Healthy

Lifecycle hooks (0) Info

     Actions ▼   Create lifecycle hook

Q Filter lifecycle hooks

< 1 >

	Name ▲	Lifecycle tra... ▽	Default result ▽	Heartbeat ti... ▽	Notification	Role ARN

◯ **New EC2 Experience** ✕
Tell us what you think

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▼ Instances

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     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

New EC2 Experience ✕
Tell us what you think

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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New EC2 Experience ✕
Tell us what you think

EC2 > Instances > i-06ea97ae23ac49e1b

Instance summary for i-06ea97ae23ac49e1b (BE-WS01) Info
Updated less than a minute ago

↻ | 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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N. Virginia ▼   test-sprints-console @ 9092-6361-5116 ▼

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    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.a mazonaws.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)

---

alb-275850408.us-east-1.elb.amazonaws.com

New Tab   Why Agile? | Sprints   Task Management Sys...   01-Getting Started - G...   Team 8 progress.xlsx - ...   admin 1 lab finish   linux videos and tasks ...   linux videos and tasks ...

Test Page

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, you should send e-mail to "webmaster@example.com".
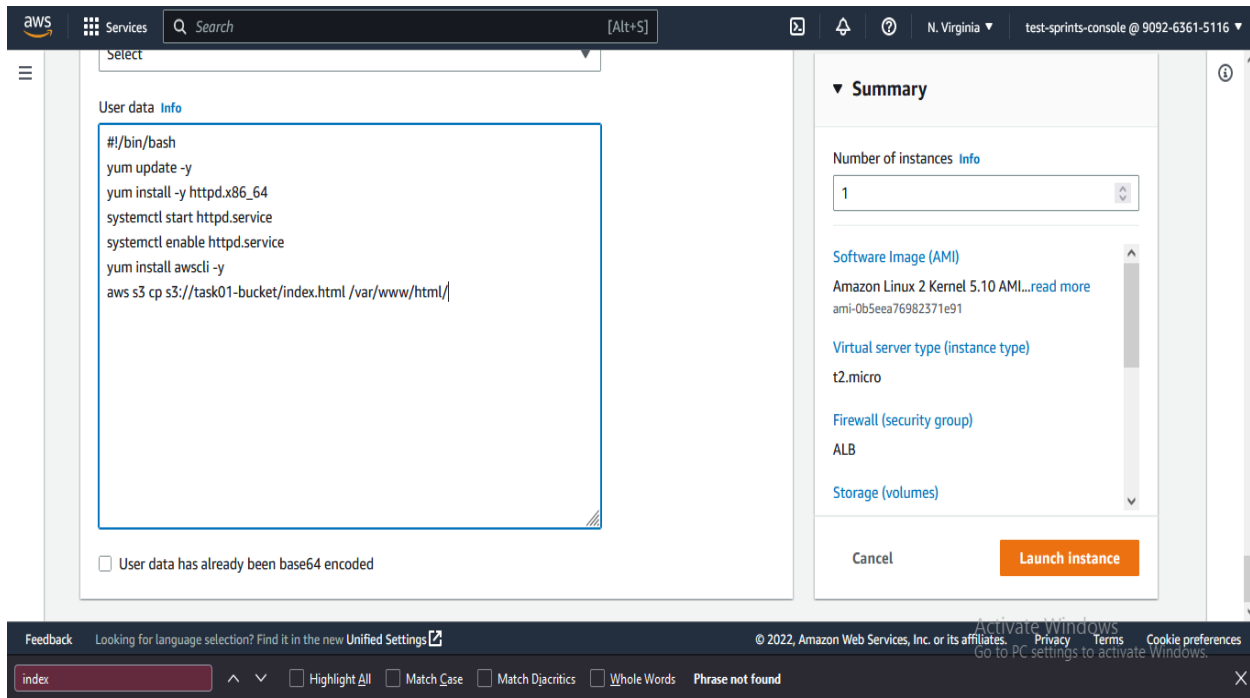
If you are the website administrator:

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]

2- Create a vpc with cidr 10.0.0.0/16 with private subnet and a machine in it with apache installed without ssh ,also we need to serve an application from S3 bucket.
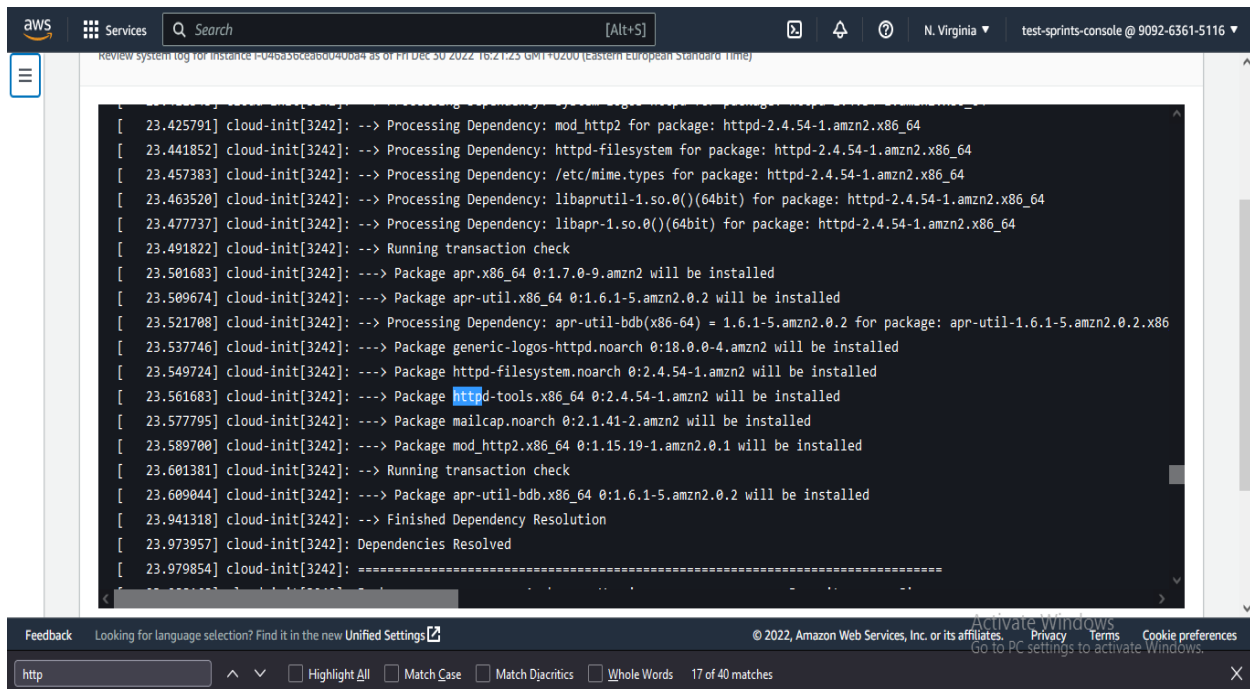

User data

```
#!/bin/bash
yum update -y
yum install -y httpd.x86_64
systemctl start httpd.service
systemctl enable httpd.service
yum install awscli -y
aws s3 cp s3://task01-bucket/index.html /var/www/html/
```

Summary

Number of instances Info

1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0b5eea76982371e91

Virtual server type (instance type)
t2.micro

Firewall (security group)
ALB

Storage (volumes)

Review system log for instance i-046a36cea6d04ba4 as of Fri Dec 30 2022 16:21:23 GMT+0200 (Eastern European Standard Time)

```
[  23.425791] cloud-init[3242]: --> Processing Dependency: mod_http2 for package: httpd-2.4.54-1.amzn2.x86_64
[  23.441852] cloud-init[3242]: --> Processing Dependency: httpd-filesystem for package: httpd-2.4.54-1.amzn2.x86_64
[  23.457383] cloud-init[3242]: --> Processing Dependency: /etc/mime.types for package: httpd-2.4.54-1.amzn2.x86_64
[  23.463520] cloud-init[3242]: --> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
[  23.477737] cloud-init[3242]: --> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
[  23.491822] cloud-init[3242]: --> Running transaction check
[  23.501683] cloud-init[3242]: ---> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
[  23.509674] cloud-init[3242]: ---> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
[  23.521708] cloud-init[3242]: --> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86
[  23.537746] cloud-init[3242]: ---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
[  23.549724] cloud-init[3242]: ---> Package httpd-filesystem.noarch 0:2.4.54-1.amzn2 will be installed
[  23.561683] cloud-init[3242]: ---> Package httpd-tools.x86_64 0:2.4.54-1.amzn2 will be installed
[  23.577795] cloud-init[3242]: ---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
[  23.589700] cloud-init[3242]: ---> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed
[  23.601381] cloud-init[3242]: --> Running transaction check
[  23.609044] cloud-init[3242]: ---> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
[  23.941318] cloud-init[3242]: --> Finished Dependency Resolution
[  23.973957] cloud-init[3242]: Dependencies Resolved
[  23.979854] cloud-init[3242]: ==================================================================================
```

New EC2 Experience ✕
Tell us what you think

EC2 > Instances > i-046a36cea6d040ba4

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Instance summary for i-046a36cea6d040ba4 (task02) Info
Updated less than a minute ago

Connect | Instance state ▾ | Actions ▾

Instance ID
[ ] i-046a36cea6d040ba4 (task02)

Public IPv4 address
–

Private IPv4 addresses
[ ] 10.0.1.247

IPv6 address
–

Instance state
⏱ Pending

Public IPv4 DNS
–

Hostname type
IP name: ip-10-0-1-247.ec2.internal

Private IP DNS name (IPv4 only)
[ ] ip-10-0-1-247.ec2.internal

Answer private resource DNS name
IPv4 (A)

Instance type
t2.micro

Elastic IP addresses
–

Auto-assigned IP address
–

VPC ID
[ ] vpc-081e4ebaff97f7bf9 (ALB) ↗

AWS Compute Optimizer finding
ⓘ Opt-in to AWS Compute Optimizer for recomme ndations.
| Learn more ↗

IAM Role

Subnet ID

Auto Scaling Group name

index | ∧ ∨ | ☐ Highlight All ☐ Match Case ☐ Match Diacritics ☐ Whole Words | **Phrase not found** | ✕

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Go to PC settings to activate Windows.