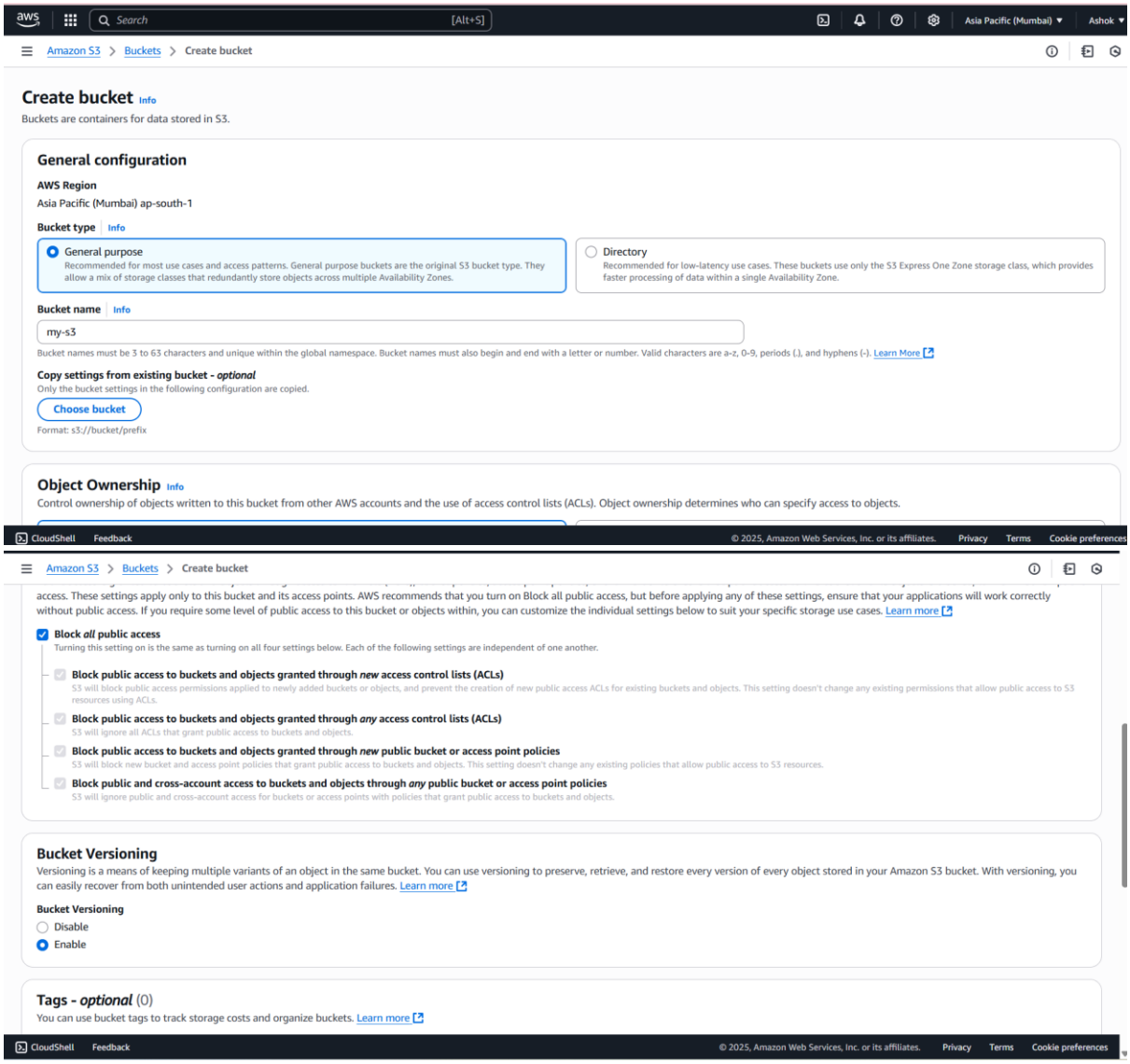
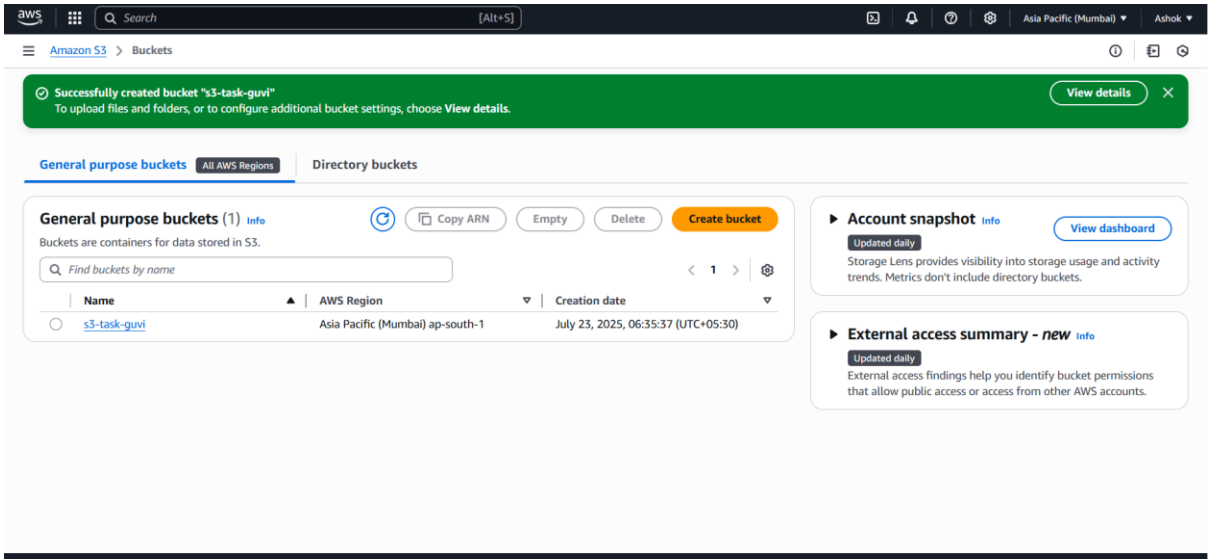
# AWS Task-3

## Task Description:

1. Create a S3 bucket, with no public access and upload files to the bucket & view the logs using cloudwatch for the uploaded files




Search [Alt+S]
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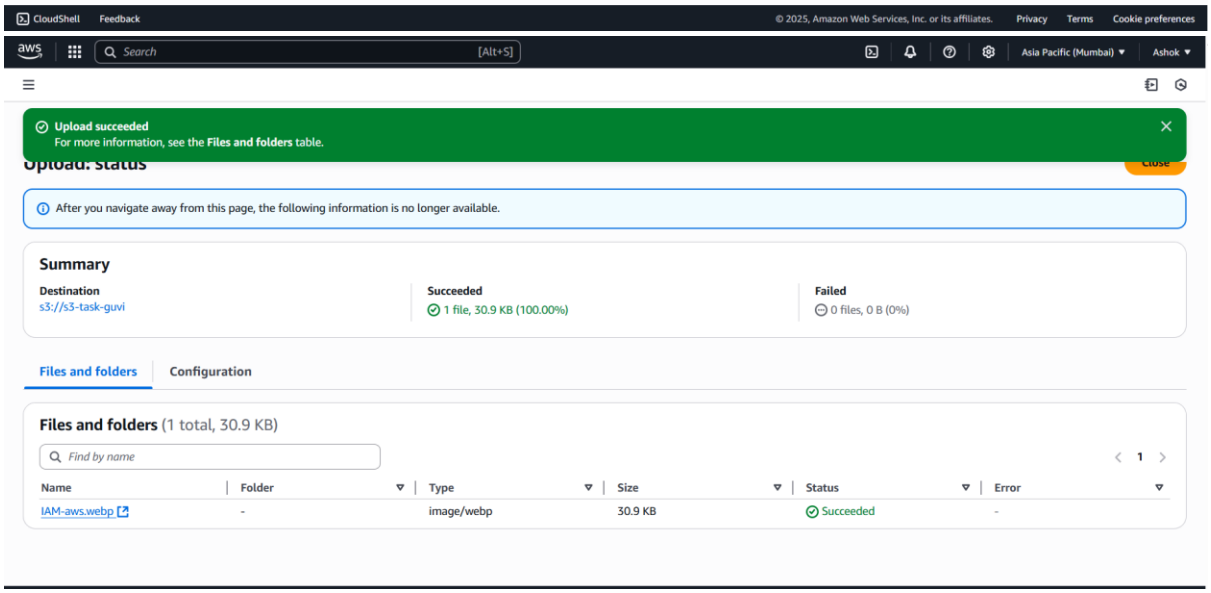
Amazon S3 > Buckets
Successfully created bucket "s3-task-guvi"
To upload files and folders, or to configure additional bucket settings, choose View details.
View details
General purpose buckets
All AWS Regions
Directory buckets
General purpose buckets (1) Info
Buckets are containers for data stored in S3.
Copy ARN
Empty
Delete
Create bucket
Find buckets by name
Name
AWS Region
Creation date
s3-task-guvi
Asia Pacific (Mumbai) ap-south-1
July 23, 2025, 06:35:37 (UTC+05:30)
Account snapshot Info
View dashboard
Updated daily
Storage Lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets.
External access summary - new Info
Updated daily
External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.


CloudShell
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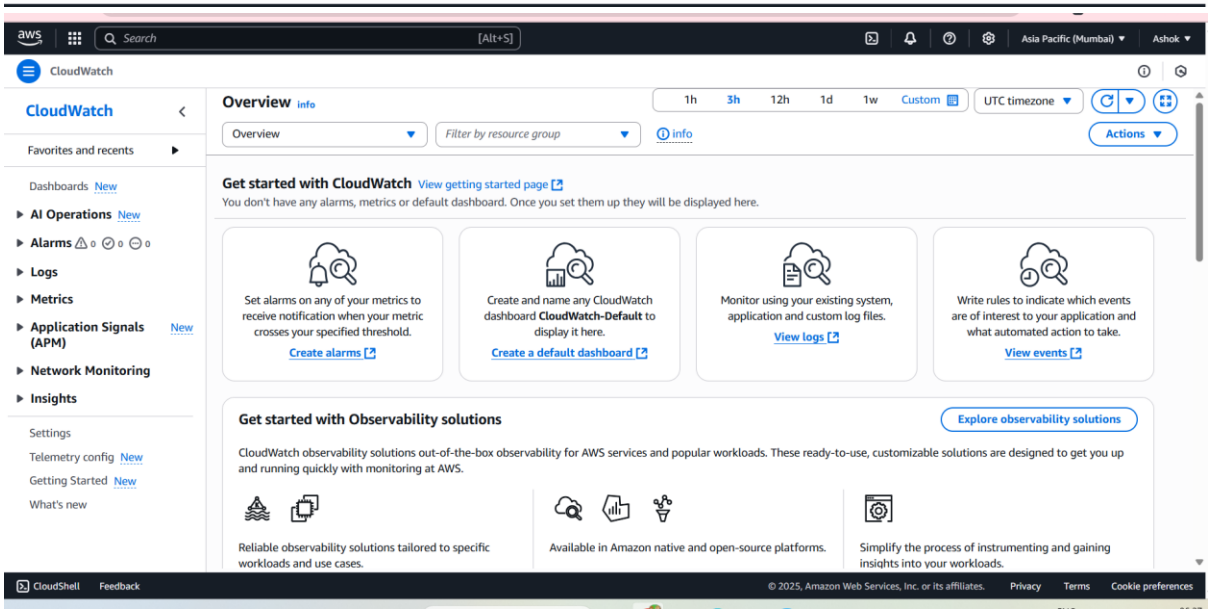
Upload succeeded
For more information, see the Files and folders table.
After you navigate away from this page, the following information is no longer available.
Summary
Destination
s3://s3-task-guvi
Succeeded
1 file, 30.9 KB (100.00%)
Failed
0 files, 0 B (0%)
Files and folders
Configuration
Files and folders (1 total, 30.9 KB)
Find by name
Name
Folder
Type
Size
Status
Error
IAM-aws.webp
-
image/webp
30.9 KB
Succeeded
-


Search [Alt+S]
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CloudWatch
Overview Info
1h
3h
12h
1d
1w
Custom
UTC timezone
Actions
Favorites and recents
Dashboards New
AI Operations New
Alarms
Logs
Metrics
Application Signals (APM) New
Network Monitoring
Insights
Settings
Telemetry config New
Getting Started New
What's new
Get started with CloudWatch
View getting started page
You don't have any alarms, metrics or default dashboard. Once you set them up they will be displayed here.
Set alarms on any of your metrics to receive notification when your metric crosses your specified threshold.
Create alarms
Create and name any CloudWatch dashboard CloudWatch-Default to display it here.
Create a default dashboard
Monitor using your existing system, application and custom log files.
View logs
Write rules to indicate which events are of interest to your application and what automated action to take.
View events
Get started with Observability solutions
Explore observability solutions
CloudWatch observability solutions out-of-the-box observability for AWS services and popular workloads. These ready-to-use, customizable solutions are designed to get you up and running quickly with monitoring at AWS.
Reliable observability solutions tailored to specific workloads and use cases.
Available in Amazon native and open-source platforms.
Simplify the process of instrumenting and gaining insights into your workloads.
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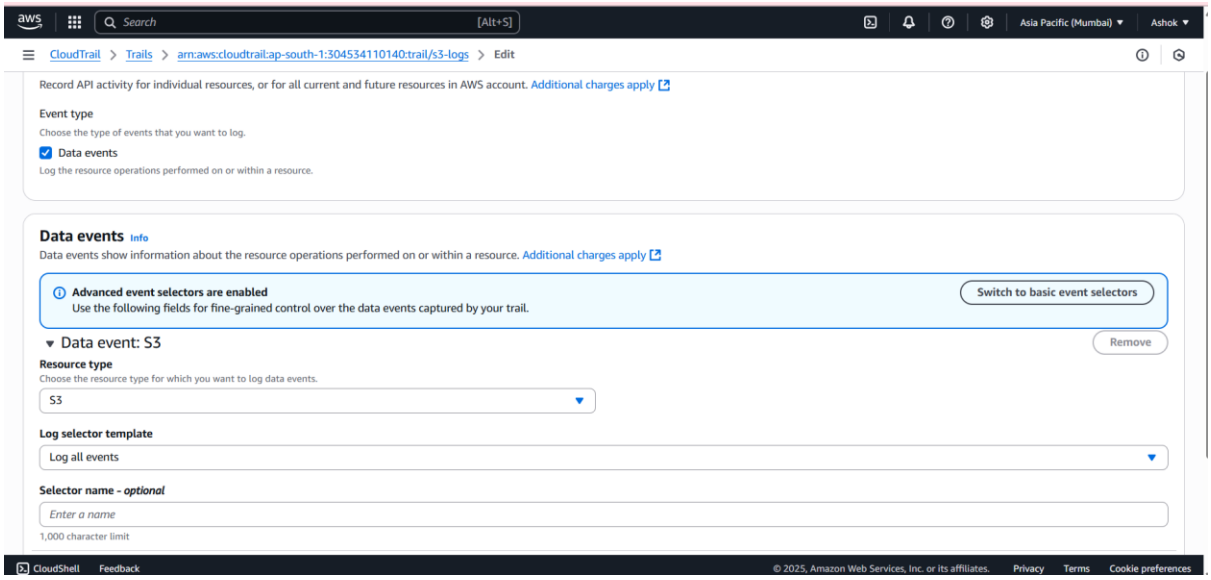
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CloudTrail > Trails > arn:aws:cloudtrail:ap-south-1:304534110140:trail/s3-logs > Edit
Record API activity for individual resources, or for all current and future resources in AWS account. Additional charges apply
Event type
Choose the type of events that you want to log.
Data events
Log the resource operations performed on or within a resource.
Data events Info
Data events show information about the resource operations performed on or within a resource. Additional charges apply
Advanced event selectors are enabled
Use the following fields for fine-grained control over the data events captured by your trail.
Switch to basic event selectors
Data event: S3
Remove
Resource type
Choose the resource type for which you want to log data events.
S3
Log selector template
Log all events
Selector name - optional
Enter a name
1,000 character limit
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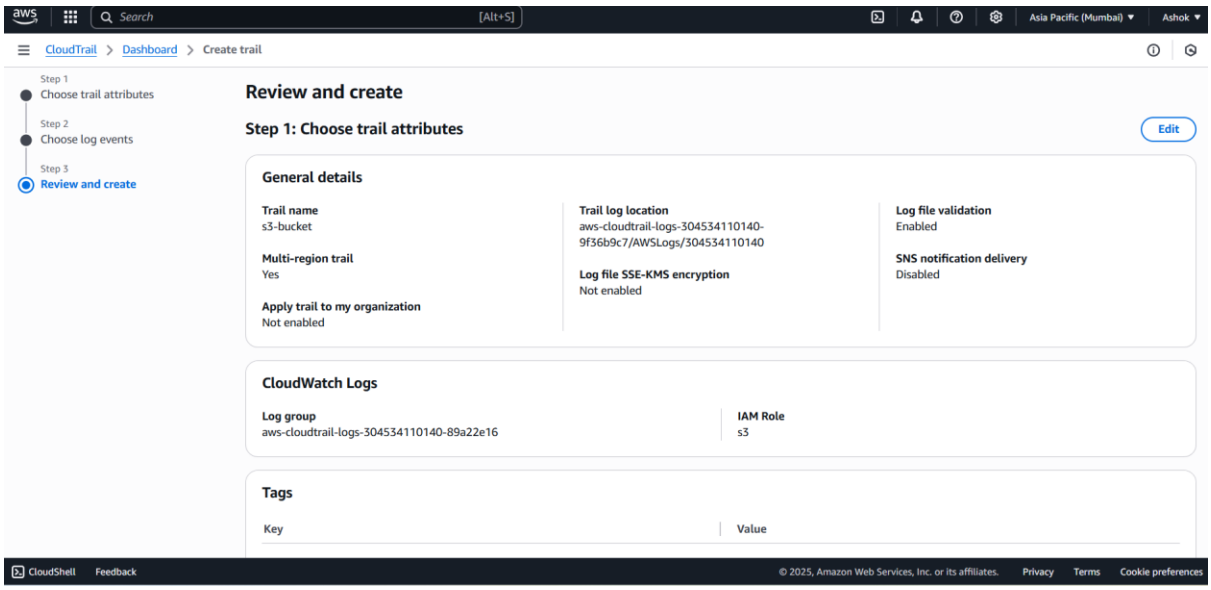
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CloudTrail > Dashboard > Create trail
Step 1
Choose trail attributes
Step 2
Choose log events
Step 3
Review and create
Review and create
Step 1: Choose trail attributes
Edit
General details
Trail name
s3-bucket
Multi-region trail
Yes
Apply trail to my organization
Not enabled
Trail log location
aws-cloudtrail-logs-304534110140-9f36b9c7/AWSLogs/304534110140
Log file SSE-KMS encryption
Not enabled
Log file validation
Enabled
SNS notification delivery
Disabled
CloudWatch Logs
Log group
aws-cloudtrail-logs-304534110140-89a22e16
IAM Role
s3
Tags
Key
Value
CloudShell
Feedback
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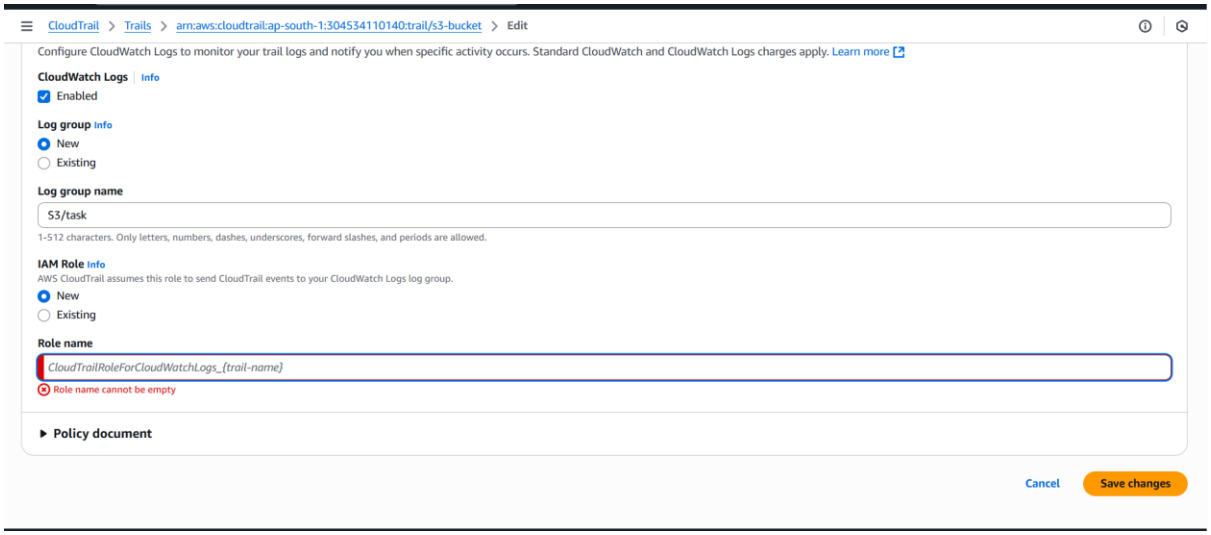
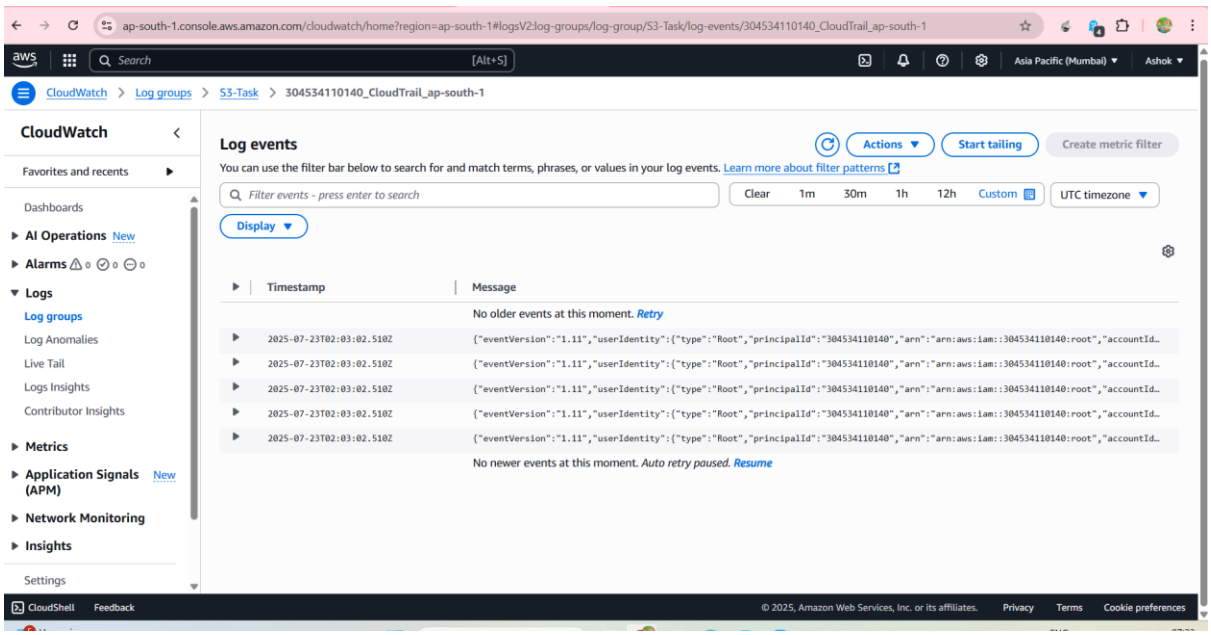

CloudTrail > Trails > arn:aws:cloudtrail:ap-south-1:304534110140:trail/s3-bucket > Edit
Configure CloudWatch Logs to monitor your trail logs and notify you when specific activity occurs. Standard CloudWatch and CloudWatch Logs charges apply. Learn more
CloudWatch Logs Info
Enabled
Log group Info
New
Existing
Log group name
S3/task
1-512 characters. Only letters, numbers, dashes, underscores, forward slashes, and periods are allowed.
IAM Role Info
AWS CloudTrail assumes this role to send CloudTrail events to your CloudWatch Logs log group.
New
Existing
Role name
CloudTrailRoleForCloudWatchLogs_{trail-name}
Role name cannot be empty
Policy document
Cancel
Save changes


ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#logsV2:log-groups/log-group/S3-Task/log-events/304534110140_CloudTrail_ap-south-1
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CloudWatch > Log groups > S3-Task > 304534110140_CloudTrail_ap-south-1
CloudWatch
Favorites and recents
Dashboards
AI Operations New
Alarms
Logs
Log groups
Log Anomalies
Live Tail
Logs Insights
Contributor Insights
Metrics
Application Signals (APM) New
Network Monitoring
Insights
Settings
Log events
Actions
Start tailing
Create metric filter
You can use the filter bar below to search for and match terms, phrases, or values in your log events. Learn more about filter patterns
Filter events - press enter to search
Clear
1m
30m
1h
12h
Custom
UTC timezone
Display
Timestamp
Message
No older events at this moment. Retry
2025-07-23T02:03:02.510Z
{"eventVersion":"1.11","userIdentity":{"type":"Root","principalId":"304534110140","arn":"arn:aws:iam::304534110140:root","accountId...
No newer events at this moment. Auto retry paused. Resume
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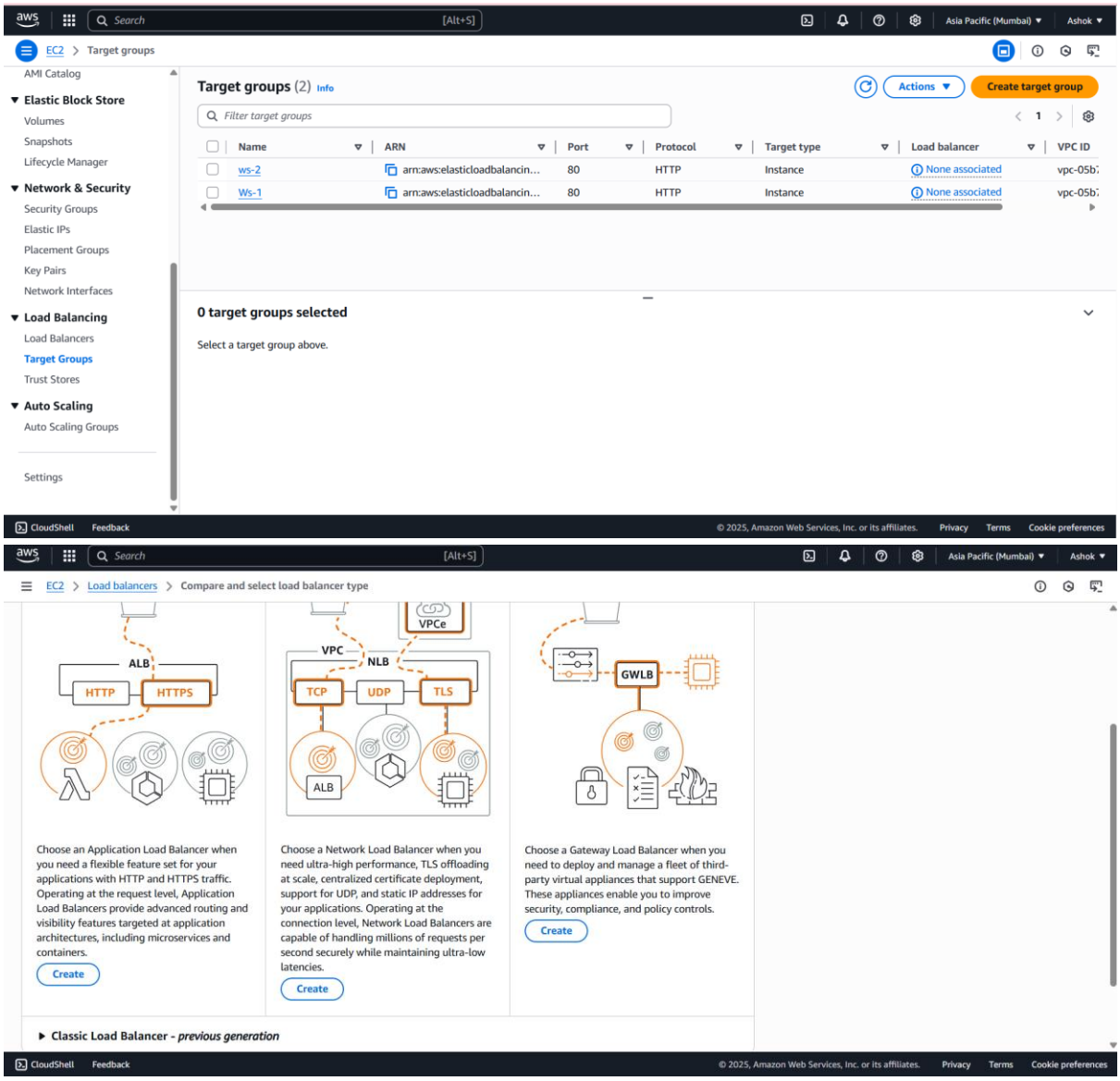
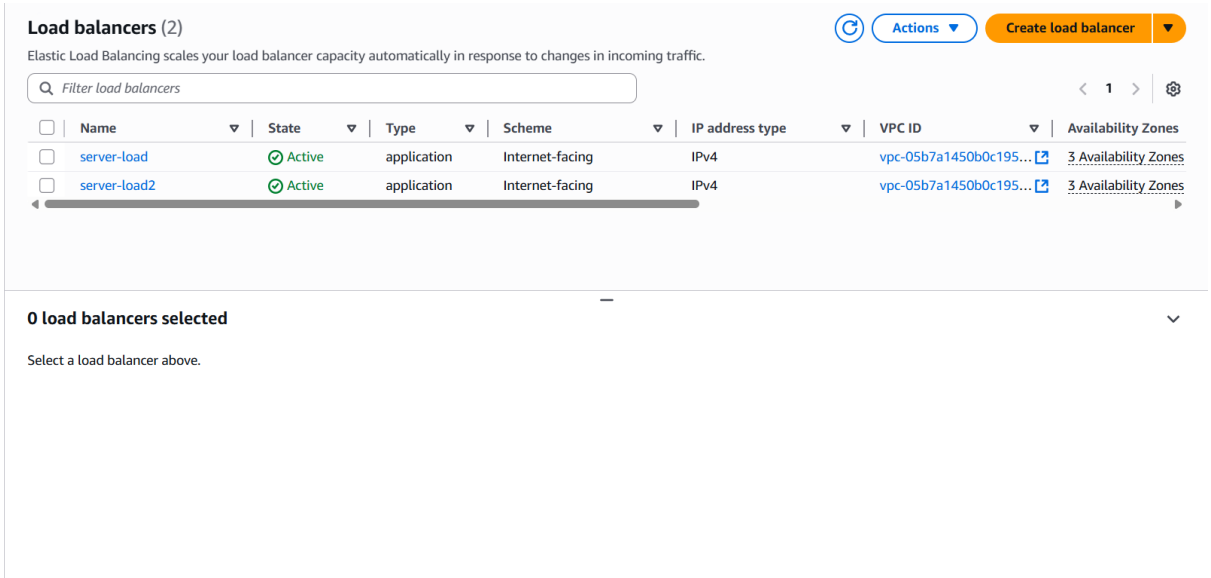
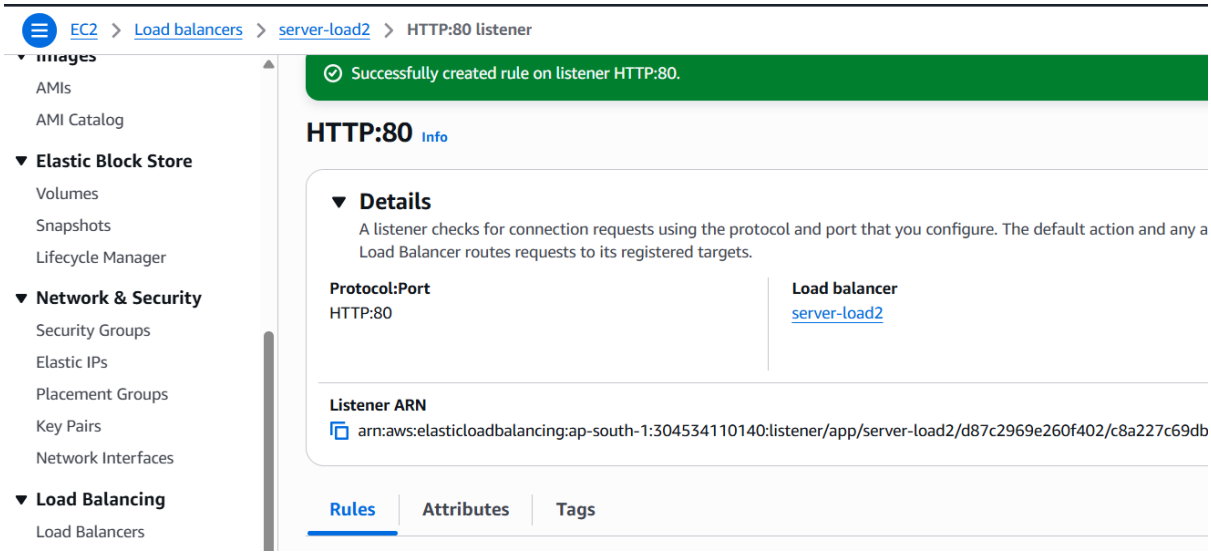
2.Launch two ec2-instances and connect it to a application load balancer, where the output traffic from the server must be an load balancer IP address

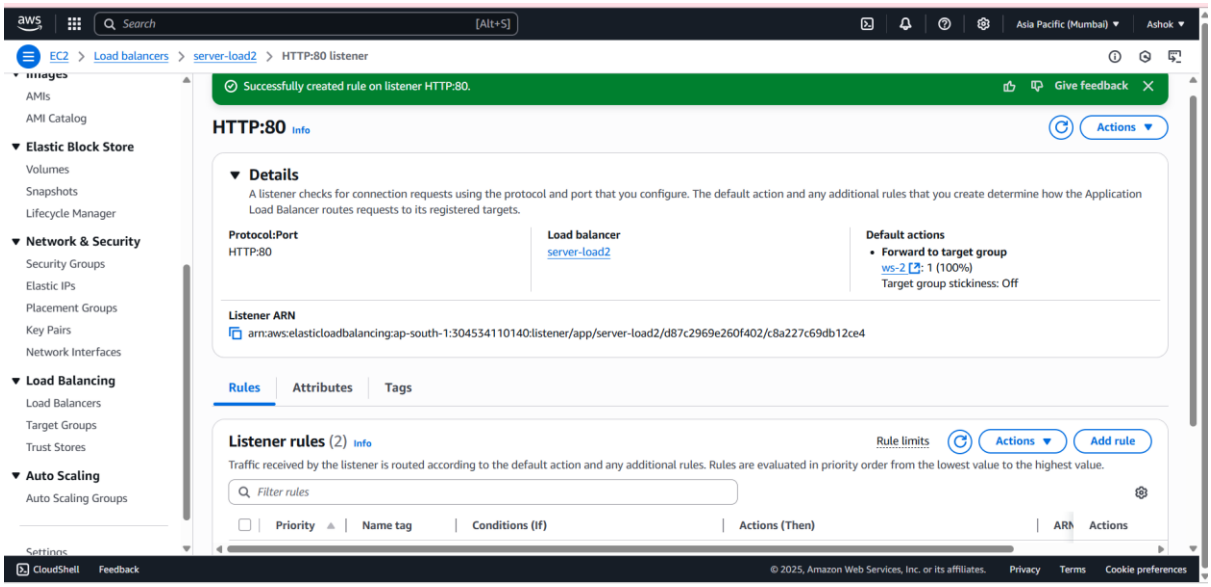



Not secure
65.0.21.208
Welcome to nginx!
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.
Thank you for using nginx.


Not secure
43.204.114.204
Apache2 Default Page
Ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
|       `--  ports.conf
|-- mods-enabled
|       |-- *.load
|       `-- *.conf
|-- conf-enabled


Load balancers (2)
Actions
Create load balancer
Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.
Filter load balancers
1
Name
State
Type
Scheme
IP address type
VPC ID
Availability Zones
server-load
Active
application
Internet-facing
IPv4
vpc-05b7a1450b0c195...
3 Availability Zones
server-load2
Active
application
Internet-facing
IPv4
vpc-05b7a1450b0c195...
3 Availability Zones
0 load balancers selected
Select a load balancer above.


EC2 > Load balancers > server-load2 > HTTP:80 listener
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Successfully created rule on listener HTTP:80.
HTTP:80 Info
Details
A listener checks for connection requests using the protocol and port that you configure. The default action and any a
Load Balancer routes requests to its registered targets.
Protocol:Port
HTTP:80
Load balancer
server-load2
Listener ARN
arn:aws:elasticloadbalancing:ap-south-1:304534110140:listener/app/server-load2/d87c2969e260f402/c8a227c69db
Rules
Attributes
Tags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EC2 > Load balancers > server-load2 > HTTP:80 listener
Successfully created rule on listener HTTP:80.
Give feedback
HTTP:80 Info
Actions
Details
A listener checks for connection requests using the protocol and port that you configure. The default action and any additional rules that you create determine how the Application
Load Balancer routes requests to its registered targets.
Protocol:Port
HTTP:80
Load balancer
server-load2
Default actions
Forward to target group
ws-2: 1 (100%)
Target group stickiness: Off
Listener ARN
arn:aws:elasticloadbalancing:ap-south-1:304534110140:listener/app/server-load2/d87c2969e260f402/c8a227c69db12ce4
Rules
Attributes
Tags
Listener rules (2) Info
Rule limits
Actions
Add rule
Traffic received by the listener is routed according to the default action and any additional rules. Rules are evaluated in priority order from the lowest value to the highest value.
Filter rules
Priority
Name tag
Conditions (If)
Actions (Then)
ARN
Actions
CloudShell
Feedback
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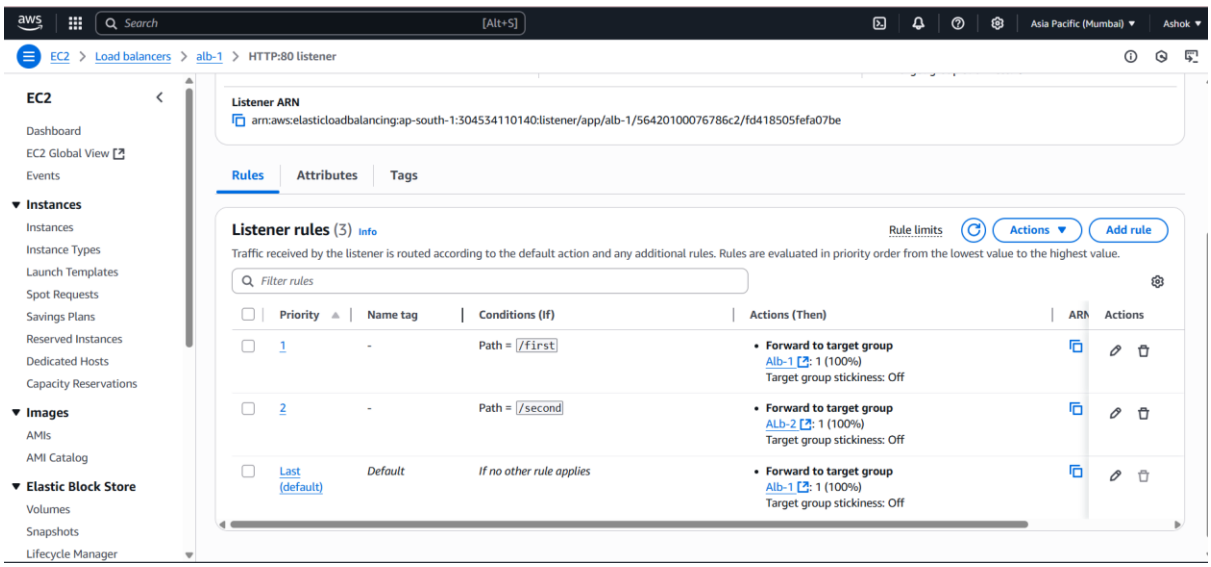
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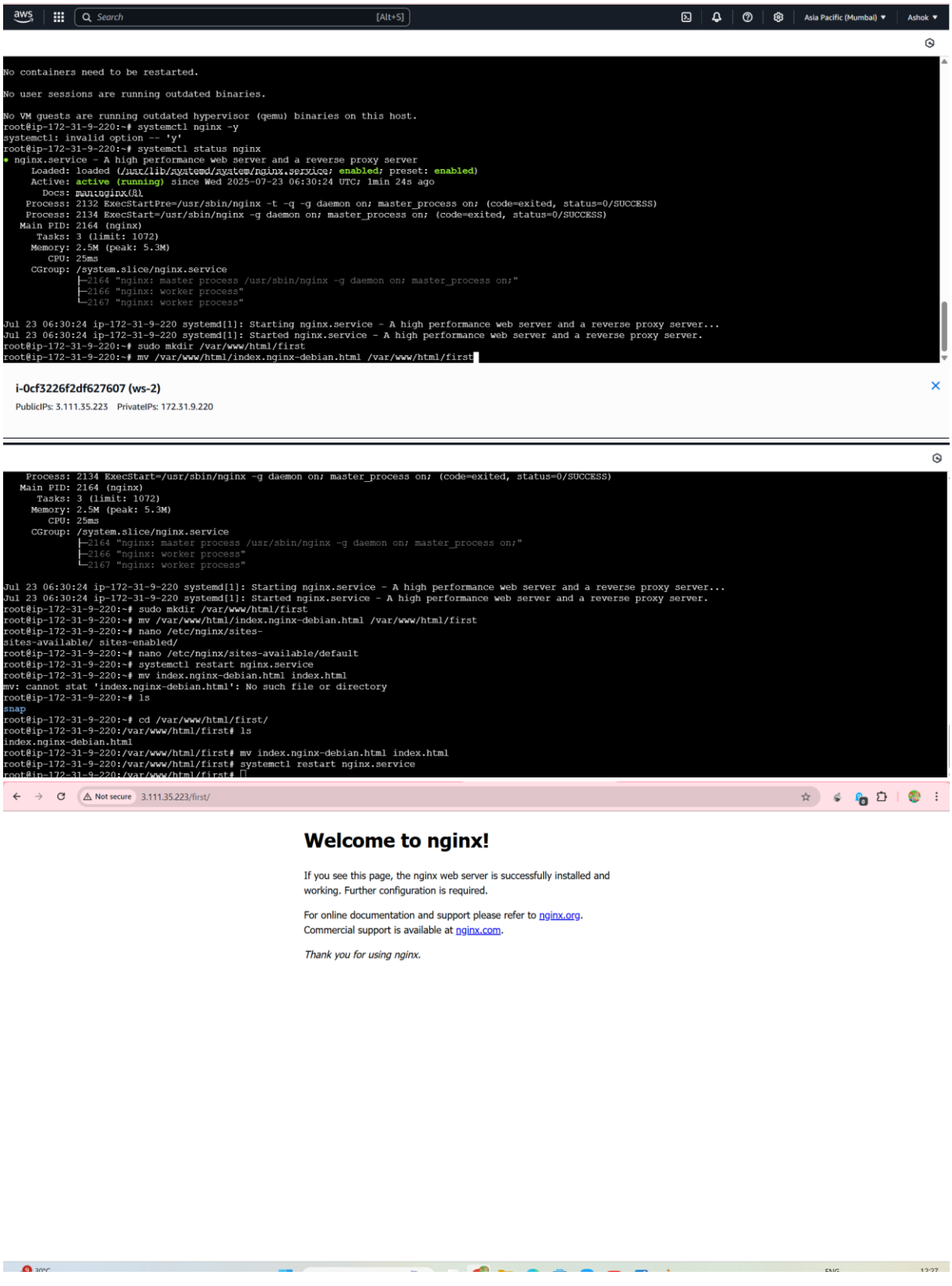
EC2 > Load balancers > alb-1 > HTTP:80 listener
EC2
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Listener ARN
arn:aws:elasticloadbalancing:ap-south-1:304534110140:listener/app/alb-1/56420100076786c2/fd418505fefa07be
Rules
Attributes
Tags
Listener rules (3) Info
Rule limits
Actions
Add rule
Traffic received by the listener is routed according to the default action and any additional rules. Rules are evaluated in priority order from the lowest value to the highest value.
Filter rules
Priority
Name tag
Conditions (If)
Actions (Then)
ARN
Actions
1
Path = /first
Forward to target group
Alb-1: 1 (100%)
Target group stickiness: Off
2
Path = /second
Forward to target group
ALb-2: 1 (100%)
Target group stickiness: Off
Last (default)
Default
If no other rule applies
Forward to target group
Alb-1: 1 (100%)
Target group stickiness: Off


aws
Search
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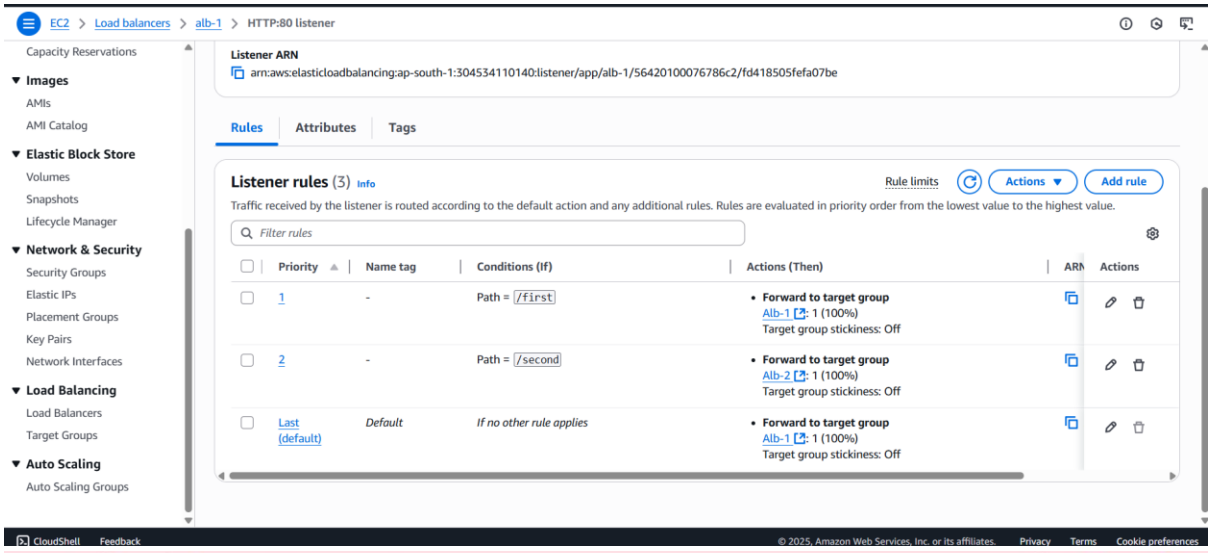
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-9-220:~# systemctl nginx -y
systemctl: invalid option -- 'y'
root@ip-172-31-9-220:~# systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
Active: active (running) since Wed 2025-07-23 06:30:24 UTC; 1min 24s ago
Docs: man:nginx(8)
Process: 2132 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
Process: 2134 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
Main PID: 2164 (nginx)
Tasks: 3 (limit: 1072)
Memory: 2.5M (peak: 5.3M)
CPU: 25ms
CGroup: /system.slice/nginx.service
├─2164 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
├─2166 "nginx: worker process"
└─2167 "nginx: worker process"
Jul 23 06:30:24 ip-172-31-9-220 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...
Jul 23 06:30:24 ip-172-31-9-220 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.
root@ip-172-31-9-220:~# sudo mkdir /var/www/html/first
root@ip-172-31-9-220:~# mv /var/www/html/index.nginx-debian.html /var/www/html/first
i-0cf3226f2df627607 (ws-2)
PublicIPs: 3.111.35.223 PrivateIPs: 172.31.9.220
Process: 2134 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
Main PID: 2164 (nginx)
Tasks: 3 (limit: 1072)
Memory: 2.5M (peak: 5.3M)
CPU: 25ms
CGroup: /system.slice/nginx.service
├─2164 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
├─2166 "nginx: worker process"
└─2167 "nginx: worker process"
Jul 23 06:30:24 ip-172-31-9-220 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...
Jul 23 06:30:24 ip-172-31-9-220 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.
root@ip-172-31-9-220:~# sudo mkdir /var/www/html/first
root@ip-172-31-9-220:~# mv /var/www/html/index.nginx-debian.html /var/www/html/first
root@ip-172-31-9-220:~# nano /etc/nginx/sites-
sites-available/ sites-enabled/
root@ip-172-31-9-220:~# nano /etc/nginx/sites-available/default
root@ip-172-31-9-220:~# systemctl restart nginx.service
root@ip-172-31-9-220:~# mv index.nginx-debian.html index.html
mv: cannot stat 'index.nginx-debian.html': No such file or directory
root@ip-172-31-9-220:~# ls
snap
root@ip-172-31-9-220:~# cd /var/www/html/first/
root@ip-172-31-9-220:/var/www/html/first# ls
index.nginx-debian.html
root@ip-172-31-9-220:/var/www/html/first# mv index.nginx-debian.html index.html
root@ip-172-31-9-220:/var/www/html/first# systemctl restart nginx.service
Not secure
3.111.35.223/first/
Welcome to nginx!
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.
Thank you for using nginx.


Not secure
alb-1-432905843.ap-south-1.elb.amazonaws.com
Apache2 Default Page
Ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled
| |-- *.load
| `-- *.conf
|-- conf-enabled


EC2 > Load balancers > alb-1 > HTTP:80 listener
Capacity Reservations
Images
AMIs
AMI Catalog
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
Auto Scaling Groups
Listener ARN
arn:aws:elasticloadbalancing:ap-south-1:304534110140:listener/app/alb-1/56420100076786c2/fd418505fefa07be
Rules
Attributes
Tags
Listener rules (3) Info
Rule limits
Actions
Add rule
Traffic received by the listener is routed according to the default action and any additional rules. Rules are evaluated in priority order from the lowest value to the highest value.
Filter rules
Priority
Name tag
Conditions (If)
Actions (Then)
ARN
Actions
1
Path = /first
Forward to target group
Alb-1: 1 (100%)
Target group stickiness: Off
2
Path = /second
Forward to target group
Alb-2: 1 (100%)
Target group stickiness: Off
Last (default)
Default
If no other rule applies
Forward to target group
Alb-1: 1 (100%)
Target group stickiness: Off
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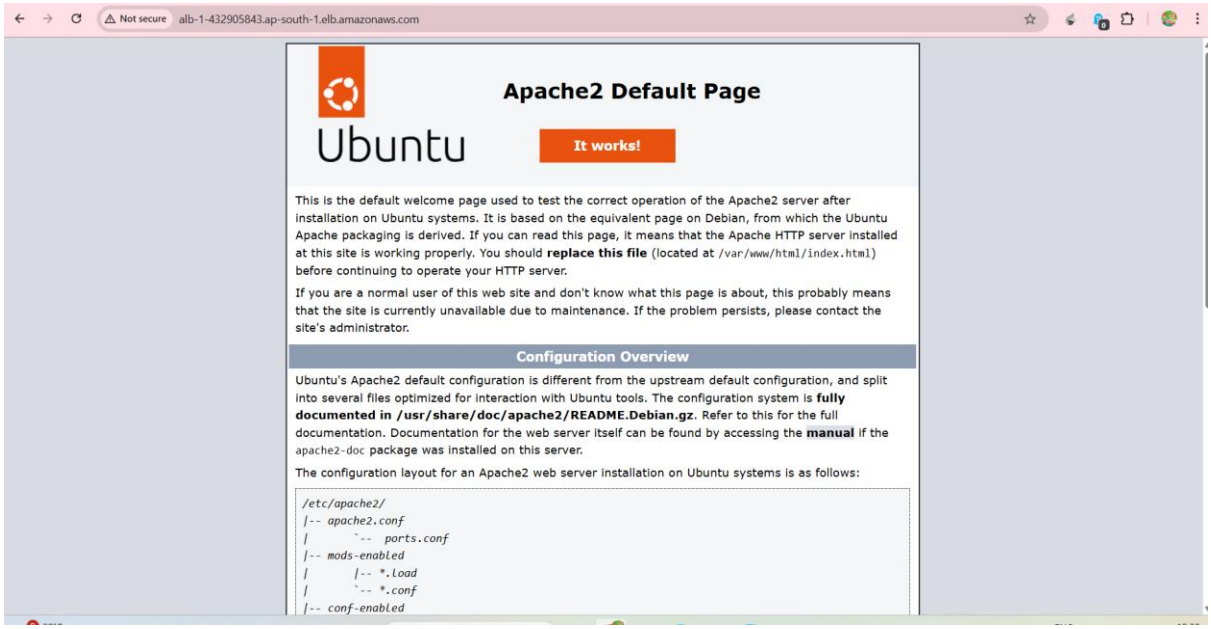
Not secure
alb-1-432905843.ap-south-1.elb.amazonaws.com
Apache2 Default Page
Ubuntu
It works!
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The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled
| |-- *.load
| `-- *.conf
|-- conf-enabled