

# Load Balancer Tasks - 01

- Configure Classic Load balancer.

The screenshot shows the AWS Classic Load Balancer configuration page. The 'Target instances' tab is selected. There are two registered instances: 'Classic-test' (Instance ID i-02efcc4af832d2080) and 'Classic2-test' (Instance ID i-057644f8db3f6d773), both in an 'In-service' state. The browser screenshot below shows the load balancer's endpoint: classic-test-1298460981.us-east-1.elb.amazonaws.com. The page content includes a navigation bar with links like 'Watch Cartoons an...', 'Minimalism wallpaper...', 'YouTube', 'The Official Home o...', and 'Gmail'.

**Target instances (2)**

<input type="checkbox"/> Instance ID	Name	Health status	Health status description	Security groups
<a href="#">i-02efcc4af832d2080</a>	Classic-test	<span>In-service</span>	Not applicable	default
<a href="#">i-057644f8db3f6d773</a>	Classic2-test	<span>In-service</span>	Not applicable	default

By the order of the PEAKY BLINDERS!!!

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Winter is Coming!!

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- Configure Application Load balancer.

**test-1**

**Details**  
arn:aws:elasticloadbalancing:us-east-1:526018540742:targetgroup/test-1/8cee86b1f3ee06b7

<b>Target type</b> Instance	<b>Protocol : Port</b> HTTP: 80	<b>Protocol version</b> HTTP1	<b>VPC</b> <a href="#">vpc-06d0c00cc6b058902</a>
<b>IP address type</b> IPv4	<b>Load balancer</b> <a href="#">None associated</a>		
1 Total targets	<input checked="" type="radio"/> 0 Healthy	<input checked="" type="radio"/> 0 Unhealthy	<input checked="" type="radio"/> 1 Unused
	0 Anomalous		<input checked="" type="radio"/> 0 Initial
			<input checked="" type="radio"/> 0 Drainin

**Distribution of targets by Availability Zone (AZ)**  
Select values in this table to see corresponding filters applied to the Registered targets table below.

**Test-2**

**Details**  
arn:aws:elasticloadbalancing:us-east-1:526018540742:targetgroup/Test-2/bc09ef81625e6433

<b>Target type</b> Instance	<b>Protocol : Port</b> HTTP: 80	<b>Protocol version</b> HTTP1	<b>VPC</b> <a href="#">vpc-06d0c00cc6b058902</a>
<b>IP address type</b> IPv4	<b>Load balancer</b> <a href="#">None associated</a>		
1 Total targets	<input checked="" type="radio"/> 0 Healthy	<input checked="" type="radio"/> 0 Unhealthy	<input checked="" type="radio"/> 1 Unused
	0 Anomalous		<input checked="" type="radio"/> 0 Initial
			<input checked="" type="radio"/> 0 Drainin

**Distribution of targets by Availability Zone (AZ)**  
Select values in this table to see corresponding filters applied to the Registered targets table below.

**Protocol**  
HTTP

**Port**  
80  
1-65535

**Default action** | [Info](#)  
The default action is used if no other rules apply. Choose the default action for traffic on this listener.

**Routing action**

Forward to target groups    Redirect to URL    Return fixed response

**Forward to target group** | [Info](#)  
Choose a target group and specify routing weight or [create target group](#).

**Target group**

test-1 Target type: Instance, IPv4   Target stickiness: Off	HTTP	<input checked="" type="radio"/>	Weight 1	Percent 50%	<a href="#">Remove</a>
Test-2 Target type: Instance, IPv4   Target stickiness: Off	HTTP	<input checked="" type="radio"/>	Weight 1	Percent 0-999	<a href="#">Remove</a>

**+ Add target group**  
You can add up to 3 more target groups.

**Target group stickiness** | [Info](#)  
Enables the load balancer to bind a user's session to a specific target group. To use stickiness the client must support cookies. If you want to bind a user's session to a specific target, turn on the Target Group attribute Stickiness.  
 Turn on target group stickiness

# Load Balancer Tasks - 01

The screenshot shows the AWS CloudWatch Metrics Insights interface. A query is being constructed to search for CloudWatch Metrics Insights metrics. The query includes filters for 'CloudWatch Metrics Insights' and 'CloudWatch Metrics Insights Metrics'. It also specifies a time range from 'Last hour' and uses a metric type of 'Sum'. The results table is currently empty.



Winter is Coming!!



By the order of the PEAKY BLINDERS!!!

- Configure Network Load balancer.

The screenshot shows the AWS Lambda function configuration interface. The function name is 'Test-1'. Under the 'Handler' section, the handler is set to 'lambda.lambda\_handler' and the runtime is 'Python 3.8'. The 'Memory' dropdown is set to '128 MB'. Under the 'Environment' section, the 'Variables' table is empty. At the bottom, there are tabs for 'Targets', 'Monitoring', 'Health checks', 'Attributes', and 'Tags'.

# Load Balancer Tasks - 01

**Test-2**

**Details**

arn:aws:elasticloadbalancing:us-east-1:526018540742:targetgroup/Test-2/d5f2b8790b1f5b51

<b>Target type</b> Instance	<b>Protocol : Port</b> TCP: 80	<b>VPC</b> <a href="#">vpc-06d0c00cc6b058902</a>
<b>Load balancer</b> <a href="#">None associated</a>		
<b>Total targets</b> 1	<b>Healthy</b> 0	<b>Unhealthy</b> 0
		<b>Unused</b> 1

► **Distribution of targets by Availability Zone (AZ)**  
Select values in this table to see corresponding filters applied to the Registered targets table below.

**Listeners and routing** [Info](#)  
A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the traffic is distributed to the registered targets.

▼ Listener TCP:80

<b>Protocol</b> TCP	<b>Port</b> 80 1-65535
<b>Forward to target group</b> <a href="#">Info</a> Choose a target group and specify routing weight or <a href="#">create target group</a> .	
<b>Target group</b> Test-1 Target type: Instance, IPv4   Target stickiness: Off	<b>Weight</b> 1
Test-2 Target type: Instance, IPv4   Target stickiness: Off	1 0-999

**Add target group**  
You can add up to 3 more target groups.

**Target group stickiness** [Info](#)  
Enables the load balancer to bind specific connections to a specific target group. If you want to bind a user session to a specific target, turn on the Target Group attribute Stickiness.

## Load Balancer Tasks - 01

NLB-01			
▼ Details		Actions	
Load balancer type	Status	Network	VPC
Internet-facing	<span>Active</span>	<a href="#">Edit</a>	<a href="#">vpc-06d0c00cc6b058902</a> ↗
Scheme	Hosted zone	Availability Zones	
Internet-facing	Z26RNL4JYFTOTI	<a href="#">subnet-05d955e2cb4c70034</a> ↗	us-east-1a (use1-az)
Load balancer ARN	DNS name <a href="#">Info</a>		<a href="#">subnet-071ce1adf8fb8fdf9</a> ↗ us-east-1b (use1-az2)
<a href="#">arn:aws:elasticloadbalancing:us-east-1:526018540742:loadbalancer/net/NLB-01/fd29c9c01647ec67</a>	<a href="#">NLB-01-fd29c9c01647ec67.elb.us-east-1.amazonaws.com</a>		

By the order of the PEAKY BLINDERS!!!

- Attach SSL for application load balancer.

**Secure listener settings** [Info](#)

**Security policy** [Info](#)  
Your load balancer uses a Secure Socket Layer (SSL) negotiation configuration called a security policy to manage SSL connections with clients. [Compare security policies](#)

**Security category**  
[All security policies](#) ▾ **Policy name** [New](#) [ELBSecurityPolicy-TLS13-1-2-Res-PQ-2025-09 \(Recommended\)](#) ▾

**Default SSL/TLS server certificate**  
The certificate used if a client connects without SNI protocol, or if there are no matching certificates. You can source this certificate from AWS Certificate Manager (ACM), Amazon Identity and Access Management (IAM), or import a certificate. This certificate is your listener certificate list.

**Certificate source**  
 From ACM  From IAM  Import certificate

**Certificate (from ACM)**  
The selected certificate will be applied as the default SSL/TLS server certificate for this load balancer's secure listeners.

azurewolf.shop  
7904863b-4a32-48c4-a73b-14844244b3a2 ▾ 

[Request new ACM certificate](#)

**Client certificate handling** [Info](#)  
Client certificates are used to make authenticated requests to remote servers. [Learn more](#)

**Mutual authentication (mTLS)**  
Mutual TLS (Transport Layer Security) authentication offers two-way peer authentication. It adds a layer of security over TLS and allows your services to verify the client that's making the connection.

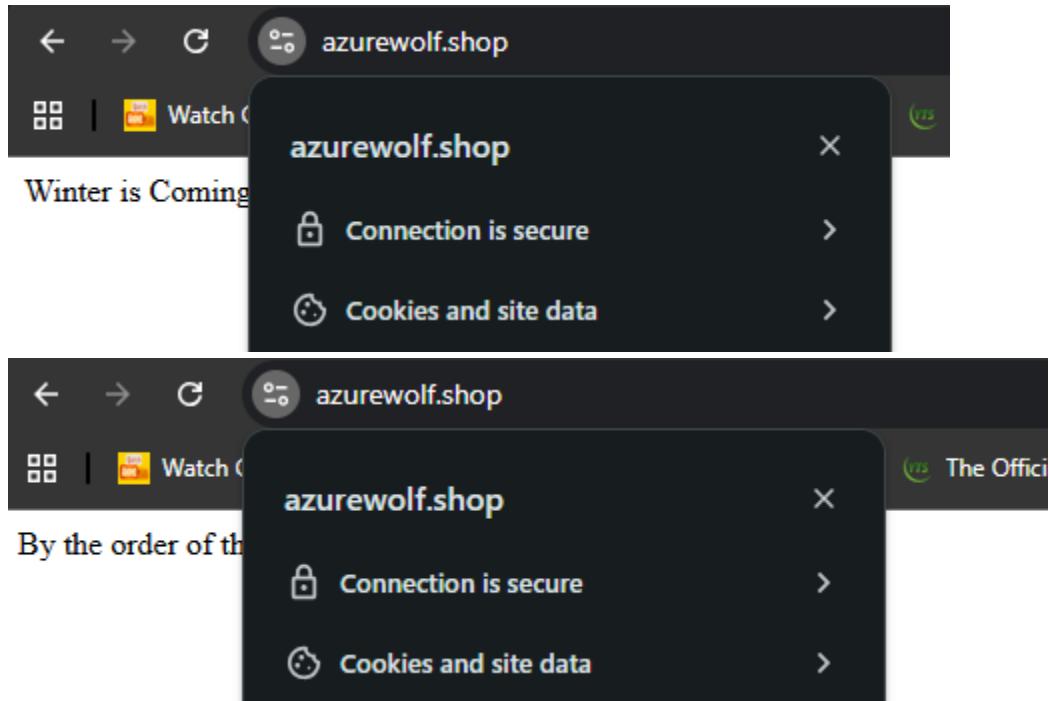
**Listeners and rules** [Network mapping](#) [Resource map](#) [Security](#) [Monitoring](#) [Integrations](#) [Attributes](#) [Capacity](#) [Tags](#)

**Listeners and rules (2)** [Info](#)  [Manage rules](#) ▾ [Manage](#)

A listener checks for connection requests on its configured protocol and port. Traffic received by the listener is routed according to the default action and any additional rules.

 Filter listeners	Protocol:Port	Default action	Rules	ARN	Security policy	Default SSL/TLS certificate
<input type="checkbox"/>	HTTP:80	<ul style="list-style-type: none"><li>Forward to target group <a href="#">test-1</a> (50%) <a href="#">Test-2</a> (50%)</li></ul>	<a href="#">1 rule</a>	 ARN	Not applicable	Not applicable
<input type="checkbox"/>	HTTPS:443	<ul style="list-style-type: none"><li>Forward to target group <a href="#">test-1</a> (50%) <a href="#">Test-2</a> (50%)</li></ul>	<a href="#">1 rule</a>	 ARN	ELBSecurityPolicy-TLS13-1-2-Res-PQ-2025-09	<a href="#">azurewolf.shop (Certificate ID: ...)</a>

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- Map Application load balancer to R53.

The screenshot shows the AWS Route 53 console. At the top, there's a header with 'Records (4) Info' and buttons for 'Delete record', 'Import zone file', and 'Create record'. Below the header is a search bar with placeholder text 'Filter records by property or value' and dropdown menus for 'Type', 'Routing p...', 'Alias', and 'TTL (s...)'. The main table lists four records:

Record name	Type	Routing	Differ...	Alias	Value/Route traffic to	TTL (s...)
azurewolf.shop	A	Simple	-	Yes	dualstack.alb-1-917364418....	-
azurewolf.shop	NS	Simple	-	No	ns-224.awsdns-28.com. ns-1929.awsdns-49.co.uk.	172800
azurewolf.shop	NS	Simple	-	No	ns-224.awsdns-28.com. ns-1929.awsdns-49.co.uk.	172800

The 'Edit record' button is highlighted. On the left, the 'Record details' sidebar shows the configuration for the selected 'azurewolf.shop' A record:

- Record name:**  azurewolf.shop
- Record type:** A
- Value:**  dualstack.alb-01-701269619.us-east-1.elb.amazonaws.com.
- Alias:** Yes
- TTL (seconds):** -
- Routing policy:** Simple

# Load Balancer Tasks - 01

- Push the application load balancer logs to S3.

The screenshot shows the AWS S3 console interface for the bucket 'alb-logs-ags01'. The 'Objects' tab is selected, displaying one object named 'AWSLogs/'. The object details show it is a folder. In the 'Monitoring' section, 'Access logs' are listed with the S3 location 'alb-logs-ags01' and a status of 'Off'. The 'Connection logs' section shows they are also off.

Name	Type
AWSLogs/	Folder

**Access logs**  
S3 location: [alb-logs-ags01](#) | [Edit](#)  
Off

**Connection logs**  
Off