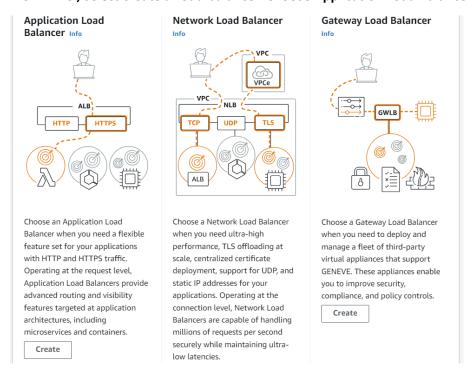
Prerequisite

- Target instances up and running with your server. (You should be able to send the HTTP requests/access the Tomcat page at individual instances)
- **Security Group** of your target instances accepting traffic on port 8080 (tomcat port) from any load balancer you created.
- **Security group** of your load balancer accepting traffic on port 80 (HTTP). (If you use HTTPS, then 443).
- If required, allows the security group of your target instances accepting traffic on port 80 (HTTP) as well.

Creating Load Balancer

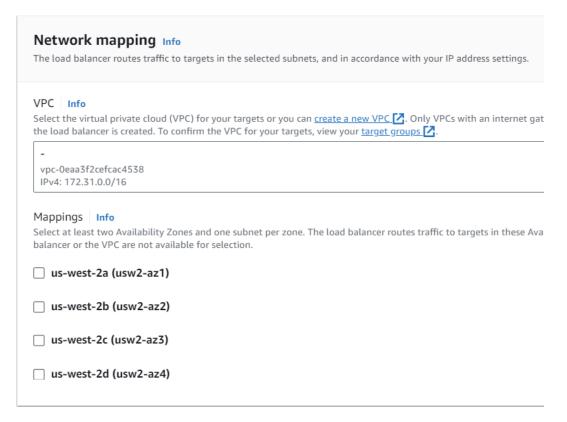
From AWS, select create a Load balancer. Choose Application Load Balancer



Basic Configuration as follows

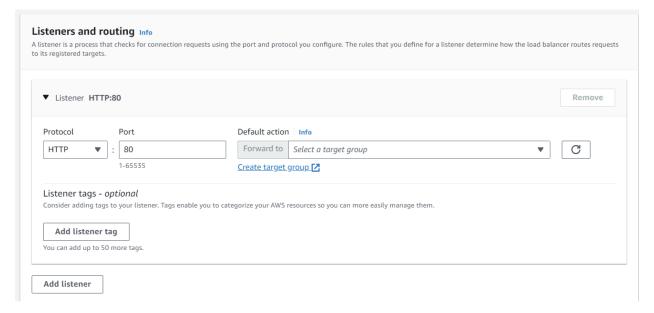
Basic configuration Load balancer name Name must be unique within your AWS account and can't be changed after the load balancer is created. albtest A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen. Scheme Info Scheme can't be changed after the load balancer is created. Internet-facing An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. Learn more 🔀 Internal An internal load balancer routes requests from clients to targets using private IP addresses. IP address type Info Select the type of IP addresses that your subnets use. O IPv4 Recommended for internal load balancers. Dualstack Includes IPv4 and IPv6 addresses.

For network mapping, choose the availability zones of your instances. You can have all instances within the same availability zone or different AZ.



Listeners and routing

For Load Balancer, it should listen on HTTP (Port 80)/ HTTPS.

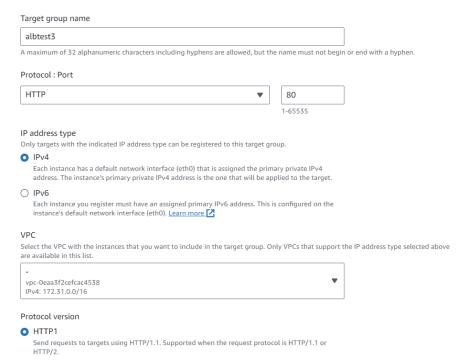


Create the target group for instances

asic configuration ittings in this section can't be changed after the target group is created. hoose a target type Instances Supports load balancing to instances within a specific VPC. Facilitates the use of Amazon EC2 Auto Scaling to manage and scale your EC2 capar | Paddresses Supports load balancing to VPC and on-premises resources. Facilitates routing to multiple IP addresses and network interfaces on the same instanc. Offers flexibility with microservice based architectures, simplifying inter-application co. Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAI Lambda function Facilitates routing to a single Lambda function. Accessible to Application Load Balancers only.

- Application Load Balancer
 - Offers the flexibility for a Network Load Balancer to accept and route TCP requests witl
 - Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.

Target group protocol : port need to be the same as your load balancer . Else you wont be able to select it from your load balancer



Ports for the selected Instances: 8080 (same port for your Tomcat services)

Click include as pending below.

