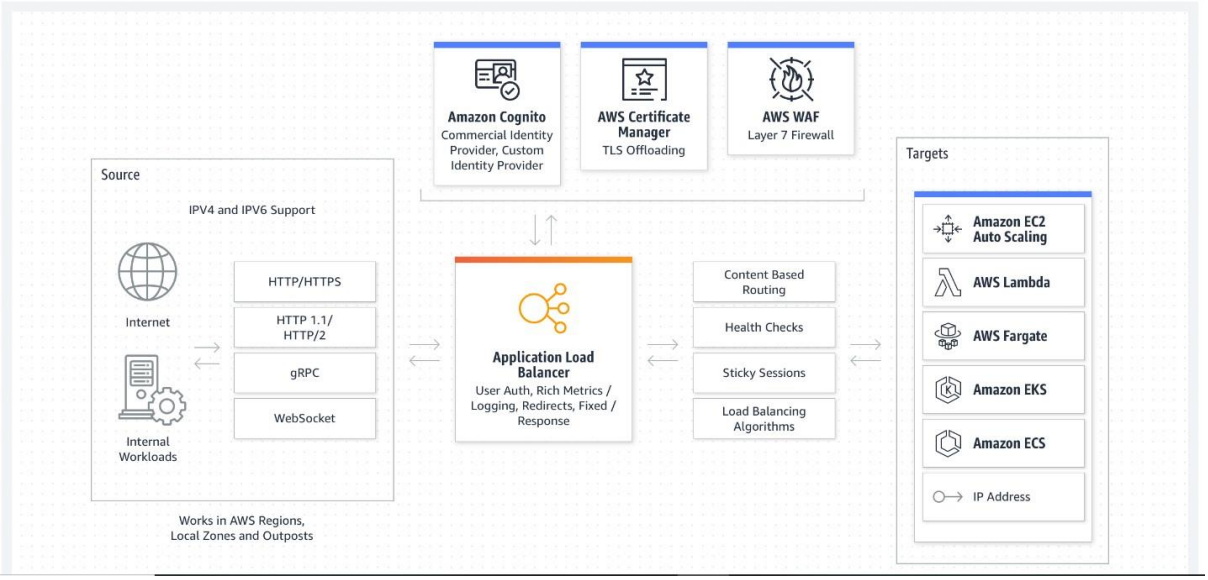
Elastic Load Balancer

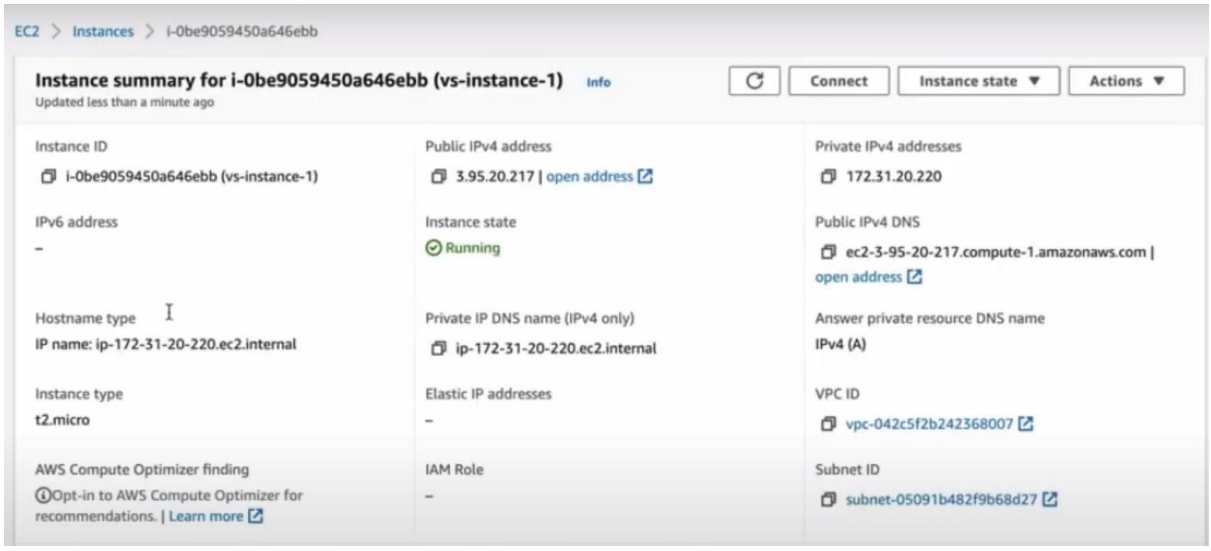
Creating an Elastic Load balancer in AWS:

Elastic Load Balancing (ELB) automatically distributes incoming application traffic across multiple targets and virtual appliances in one or more Availability Zones (AZs).

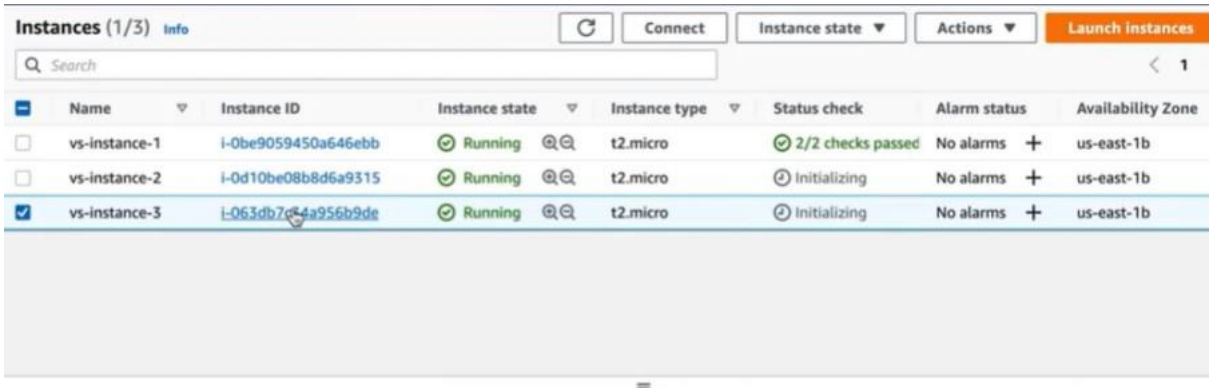


Steps:

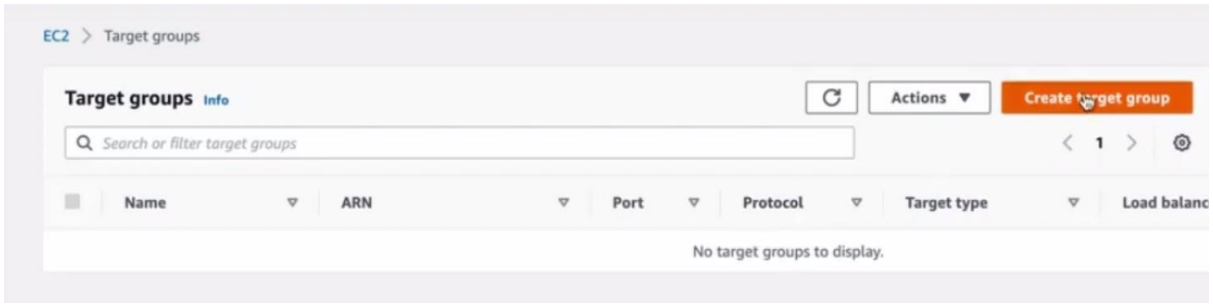
1. Launch an instance in aws .



2. Now create multiple instances as shown below.

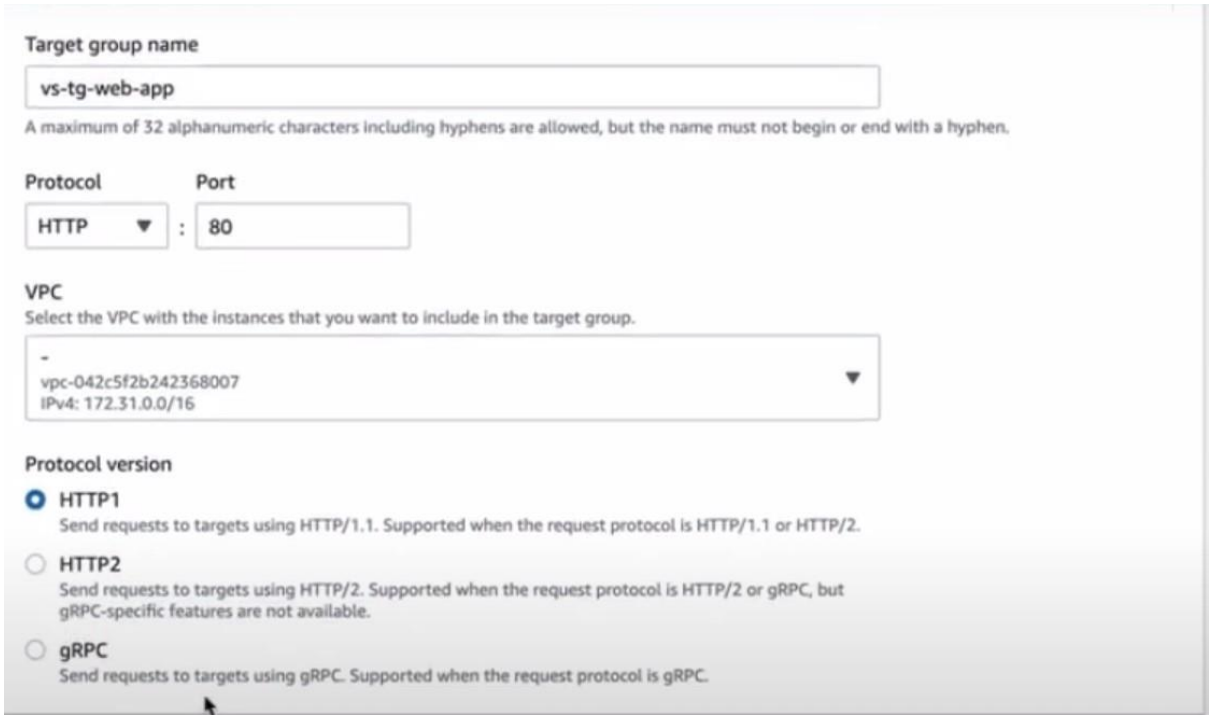


3. Now open target groups :

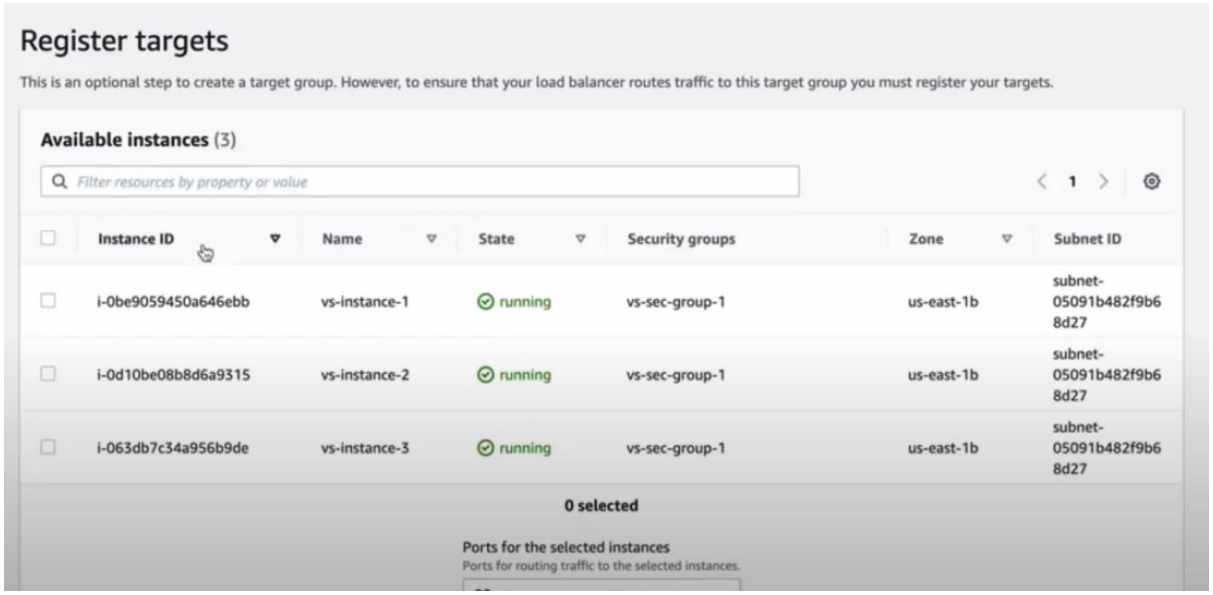


4. Create a target group , and give it a name for eg: vs-tg-web-app.

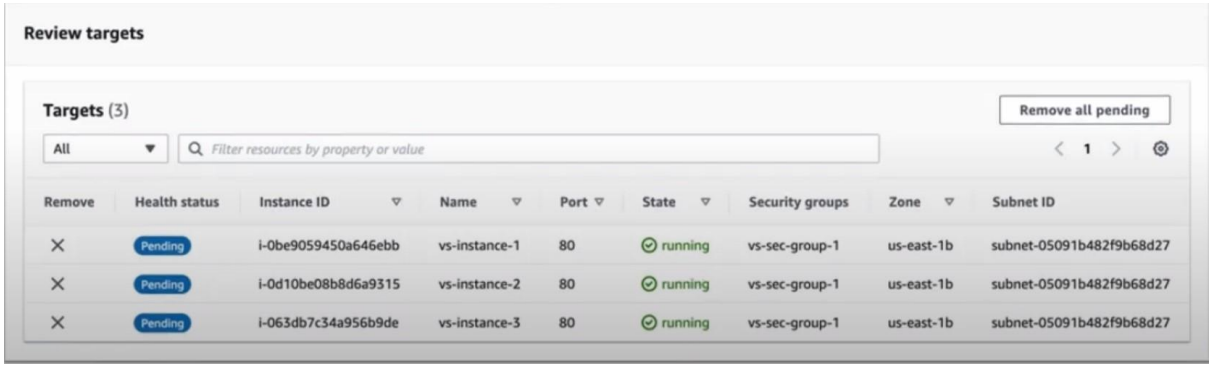
As we have shown below:



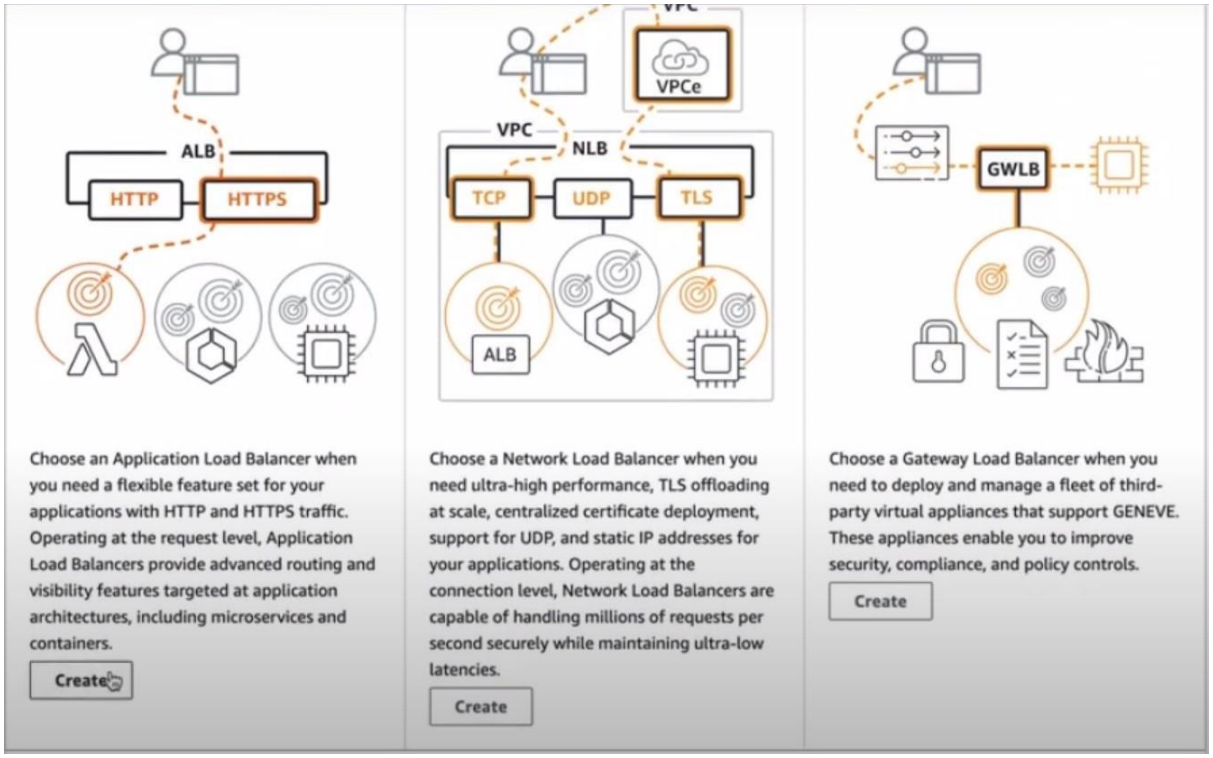
5. Now select the instances that you have created previously and select them in the option which will be shown as below:

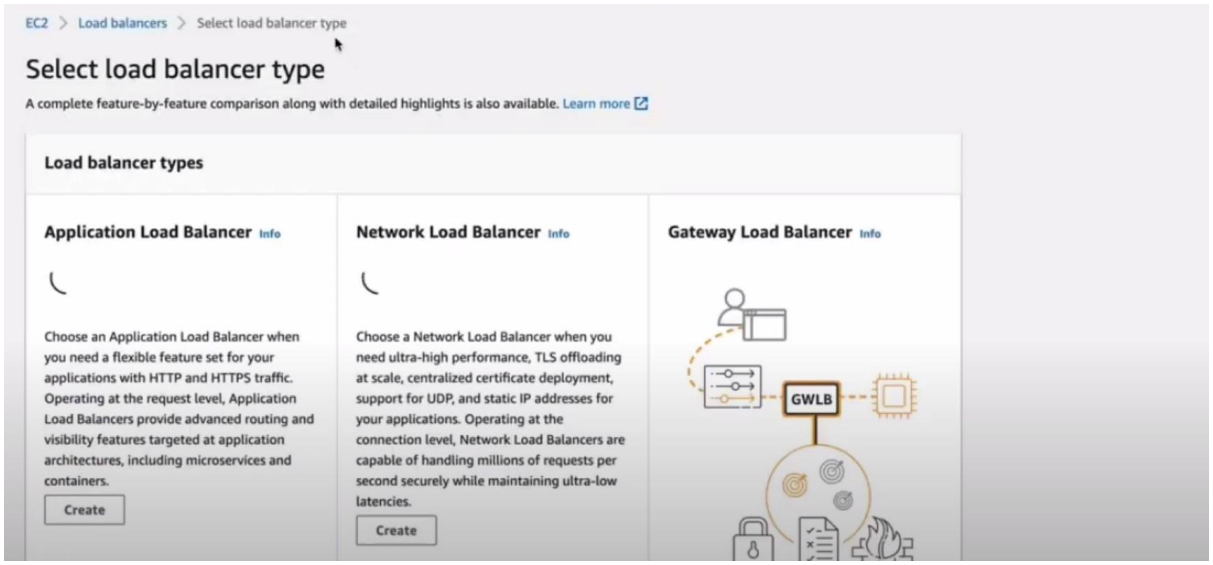


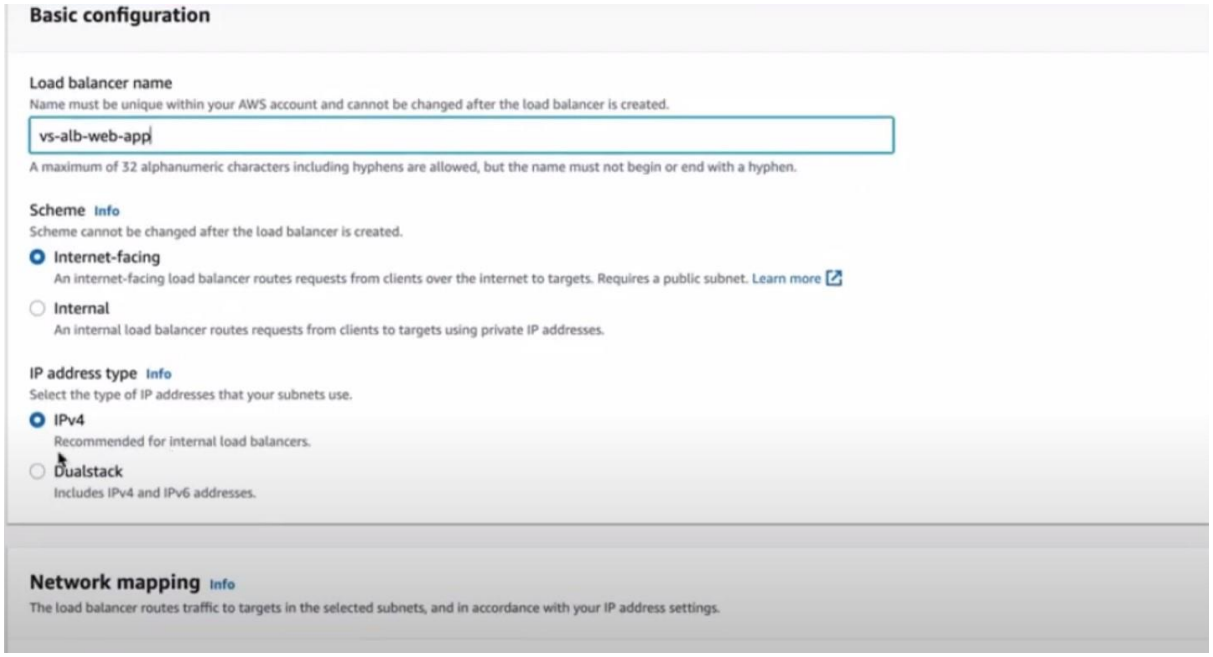
6. Now review the selected instances which you have selected in target groups:



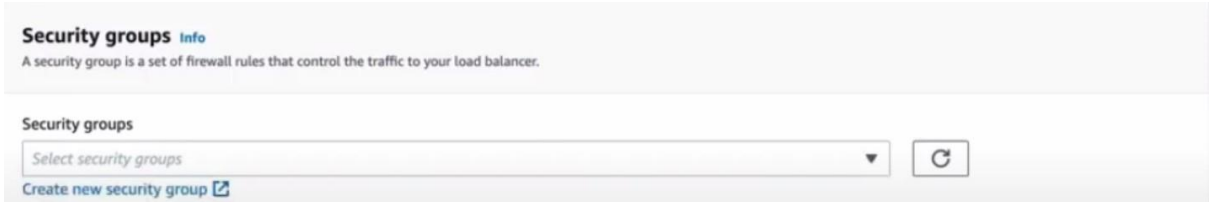
7. Now click on the load balancer option in the left corner and this page will open and now select the type you want to select.


ALB
HTTP
HTTPS
VPC
VPCe
NLB
TCP
UDP
TLS
ALB
GWLB
Choose an Application Load Balancer when you need a flexible feature set for your applications with HTTP and HTTPS traffic. Operating at the request level, Application Load Balancers provide advanced routing and visibility features targeted at application architectures, including microservices and containers.
Create
Choose a Network Load Balancer when you need ultra-high performance, TLS offloading at scale, centralized certificate deployment, support for UDP, and static IP addresses for your applications. Operating at the connection level, Network Load Balancers are capable of handling millions of requests per second securely while maintaining ultra-low latencies.
Create
Choose a Gateway Load Balancer when you need to deploy and manage a fleet of third-party virtual appliances that support GENEVE. These appliances enable you to improve security, compliance, and policy controls.
Create

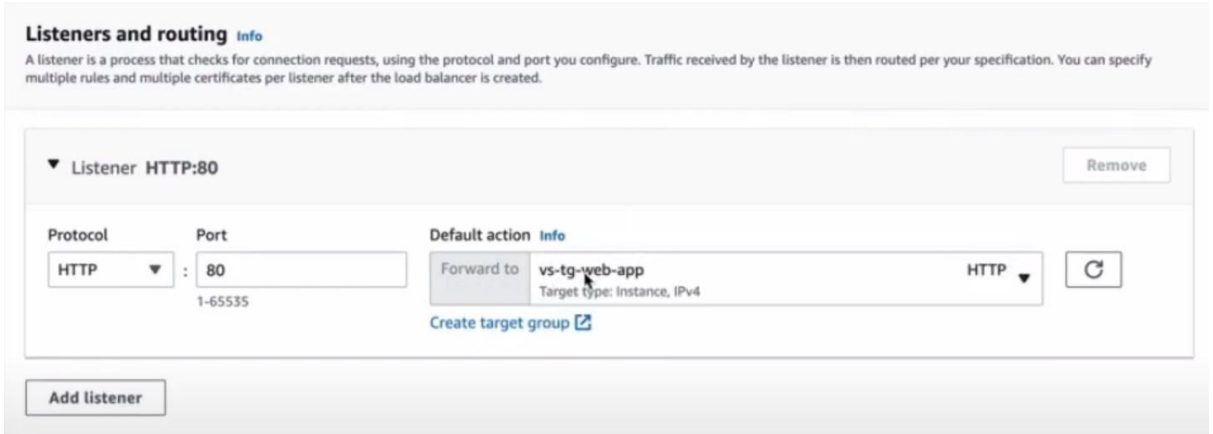

EC2 > Load balancers > Select load balancer type
Select load balancer type
A complete feature-by-feature comparison along with detailed highlights is also available. Learn more
Load balancer types
Application Load Balancer Info
Choose an Application Load Balancer when you need a flexible feature set for your applications with HTTP and HTTPS traffic. Operating at the request level, Application Load Balancers provide advanced routing and visibility features targeted at application architectures, including microservices and containers.
Create
Network Load Balancer Info
Choose a Network Load Balancer when you need ultra-high performance, TLS offloading at scale, centralized certificate deployment, support for UDP, and static IP addresses for your applications. Operating at the connection level, Network Load Balancers are capable of handling millions of requests per second securely while maintaining ultra-low latencies.
Create
Gateway Load Balancer Info
GWLB



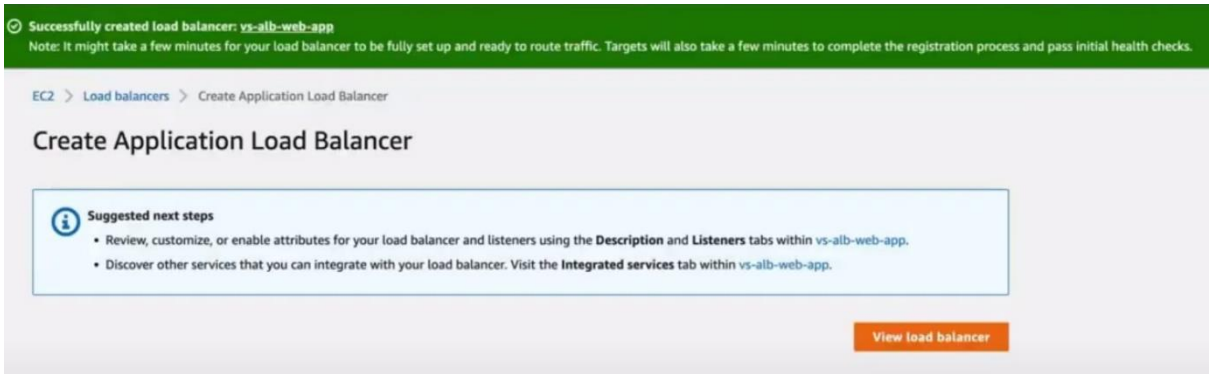
8. Select the configuration as shown above and give it any name you want to , here for eg: vs-alb-web-app



9. Create a new Security group or you can go with the default group which will be given in the drop down box.



Now select the configuration as shown and you are good to go with the load balancer in aws.


Successfully created load balancer: vs-alb-web-app
Note: It might take a few minutes for your load balancer to be fully set up and ready to route traffic. Targets will also take a few minutes to complete the registration process and pass initial health checks.
EC2 > Load balancers > Create Application Load Balancer
Create Application Load Balancer
Suggested next steps
• Review, customize, or enable attributes for your load balancer and listeners using the Description and Listeners tabs within vs-alb-web-app.
• Discover other services that you can integrate with your load balancer. Visit the Integrated services tab within vs-alb-web-app.
View load balancer