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CORPORATE CAREER ENHANCEMENT TRAININGS

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ABOUT US

Our Vision:

To provide better training by full filing the requirements of our trainee.

Our Mission:

We always ensure to give practical based training. And we make the candidates to get good hands-on experience on any platform.

Philosophy:

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Elastic Load Balancer

What Is Elastic Load Balancing?

Elastic Load Balancing distributes incoming application traffic across multiple EC2 instances, in multiple Availability Zones. This increases the fault tolerance of your applications.

The load balancer serves as a single point of contact for clients, which increases the availability of your application. You can add and remove instances from your load balancer as your needs change, without disrupting the overall flow of requests to your application. Elastic Load Balancing scales your load balancer as traffic to your application changes over time, and can scale to the vast majority of workloads automatically.

You can configure health checks, which are used to monitor the health of the registered instances so that the load balancer can send requests only to the healthy instances. You can also offload the work of encryption and decryption to your load balancer so that your instances can focus on their main work.

Features of Elastic Load Balancing

Elastic Load Balancing supports three types of load balancers:

- Application Load Balancers
- Network Load Balancers
- Classic Load Balancers

Classic Load Balancer

- Classic Load Balancer provides basic load balancing across multiple Amazon EC2 instances and operates at both the request level and connection level.
- Classic Load Balancer is intended for applications that were built within the EC2- Classic network.

Network Load Balancer

- Network Load Balancer is best suited for load balancing of TCP traffic where extreme performance is required. Operating at the connection level (Layer 4), Network Load Balancer routes traffic to targets within Amazon Virtual Private Cloud (Amazon VPC) and is capable of handling millions of requests per second while maintaining ultra-low latencies.
- Network Load Balancer is also optimized to handle sudden and volatile traffic patterns

Application Load Balancer

- Application Load Balancer is best suited for load balancing of HTTP and HTTPS traffic and provides advanced request routing targeted at the delivery of modern application architectures, including micro services and containers.
- Operating at the individual request level (Layer 7), Application Load Balancer routes traffic to targets within Amazon Virtual Private Cloud (Amazon VPC) based on the content of the request.

Pre requirement

1. **ELB name**
2. **TWO instance Server IP**
3. **Instance Server VPC**
4. **Instance Subnet**
5. **Location of status file**
6. **ELB lock down**
7. **Https – SSL generic add**

ELB CREATION

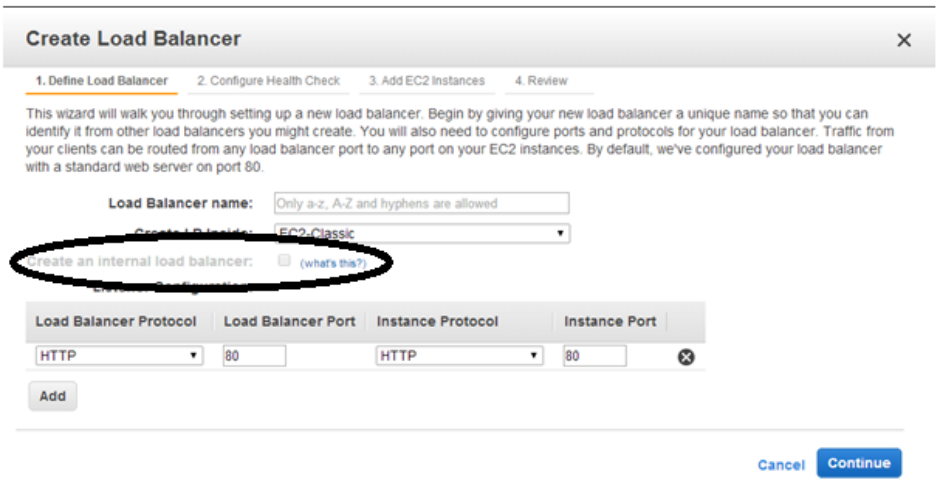
- ELB creation request from will be received from client.
- The form contains the details such as Domain Name, SSL requirement, Health Check and A record details

Two types of ELB are created.

1. External
2. Internal

Internal ELB Creation:

The only difference between External and Internal is, in first step we need to check the check box for internal ELB. And, after creating internal ELB it has to be mapped CNAME in DNS server.

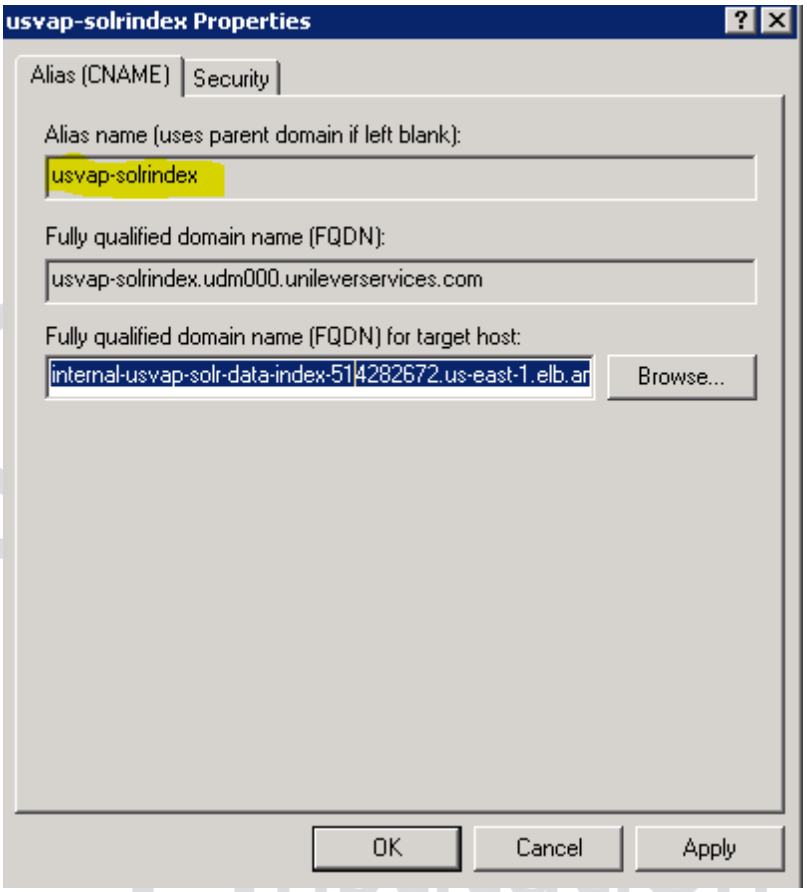


DNS – CNAME Creation:

For example consider below in the ELB that you have created (Internal ELB always have prefix as internal).

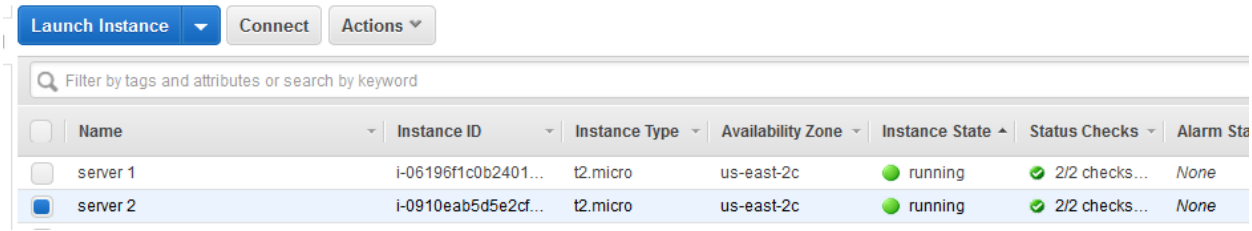
internal-usvap-solr-data-index-514282672.us-east-1.elb.amazonaws.com.

The Alias name has to be given as below.



External ELB creation:

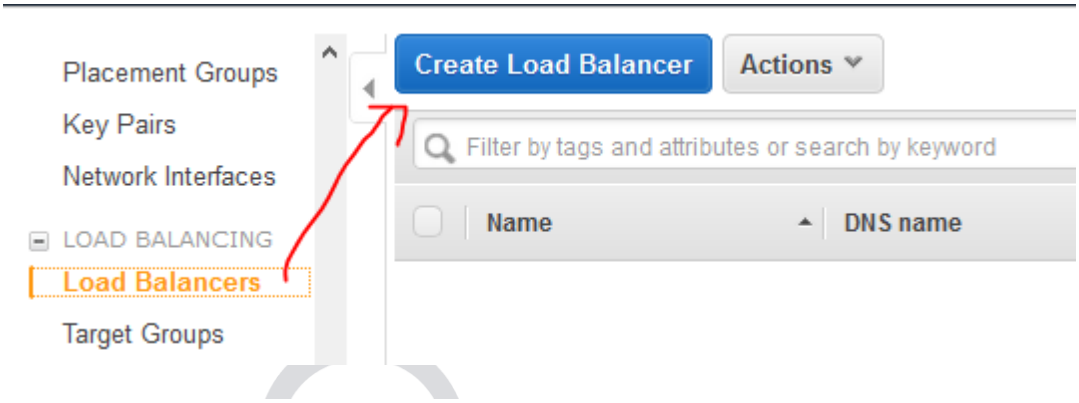
Step 1: Log in the instances which are to be added to the ELB and navigate to the below path.

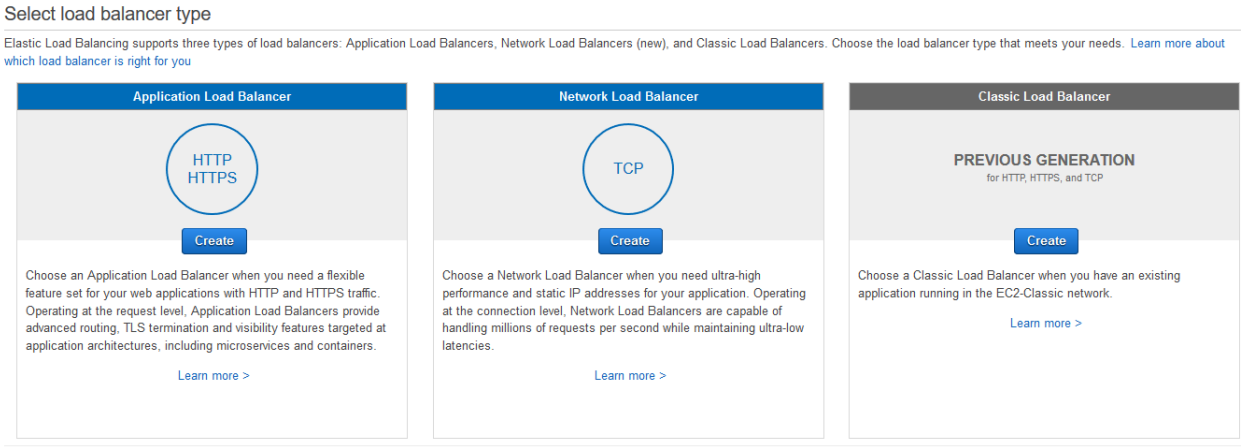


Create two instance in Linux (Apache) / Windows (IIS) host a website in it.

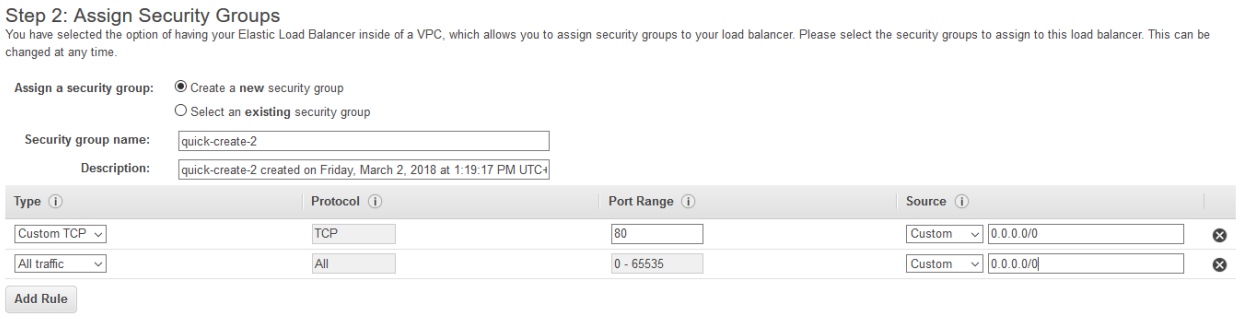
Step 2:

1. Log in to AWS console for the region where the ELB need to be created.

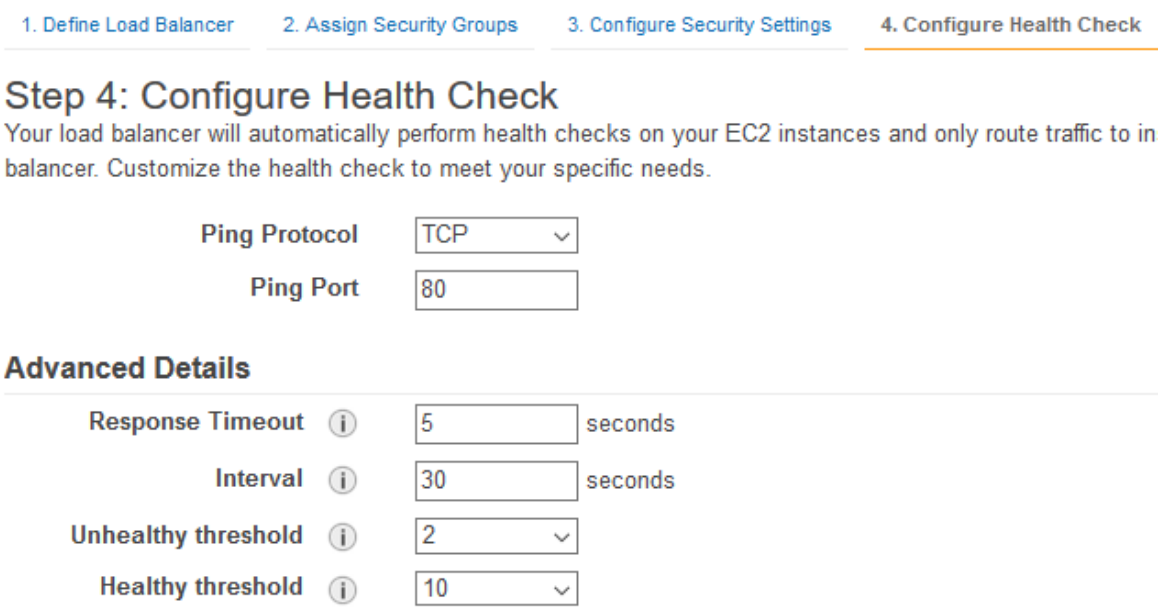




- Load Balancer Name will be given in ELB creation form. (Ex: “iedup-dove-tr-<aws amazon number>”)
- We need to create ELB only on “iedup-dove-tr”.
- Next we need to select VPC id in which the ELB has to be created.
- If SSL required, select Load Balancer Protocol as HTTP and leave Instance Protocol as 80.

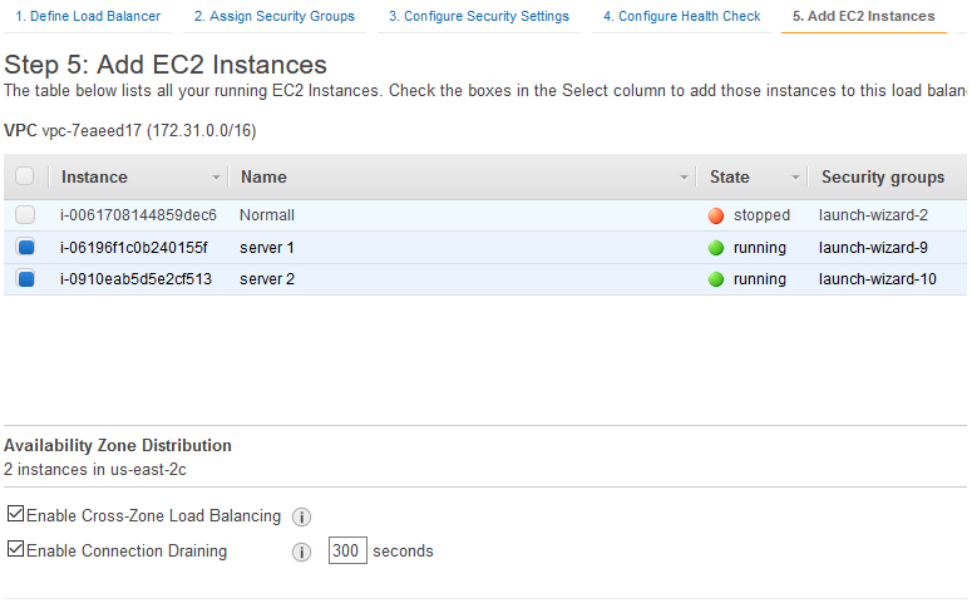


2. Configuring Health Check.

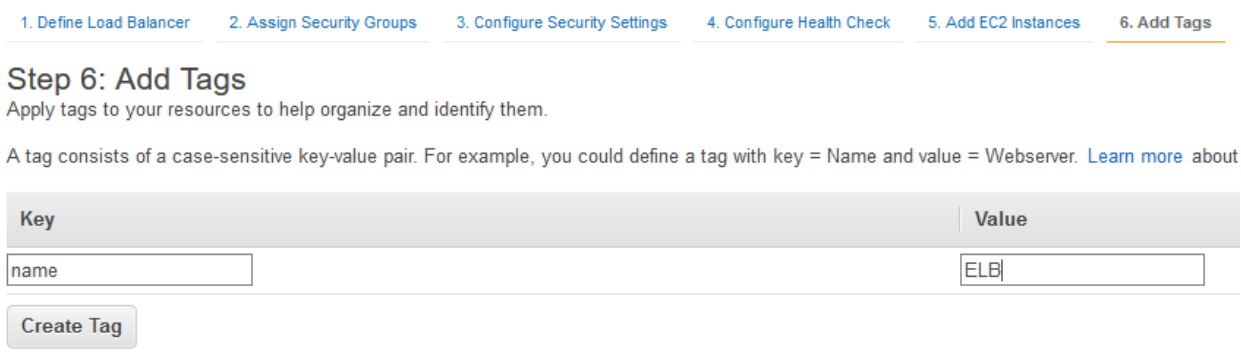


- Ping protocol and port as it is HTTP / TCP - 80
- Response Timeout is 10 sec.
- Health check interval is 12 sec.
- Unhealthy Threshold is 2 sec.
- Health Threshold 2 sec.

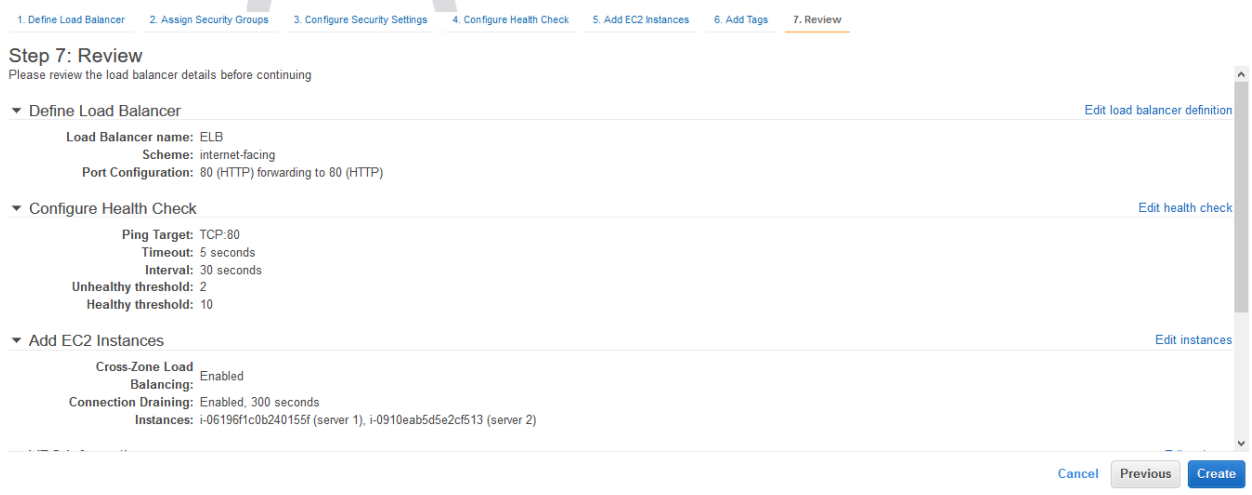
3. Add the instances that need to be in ELB.



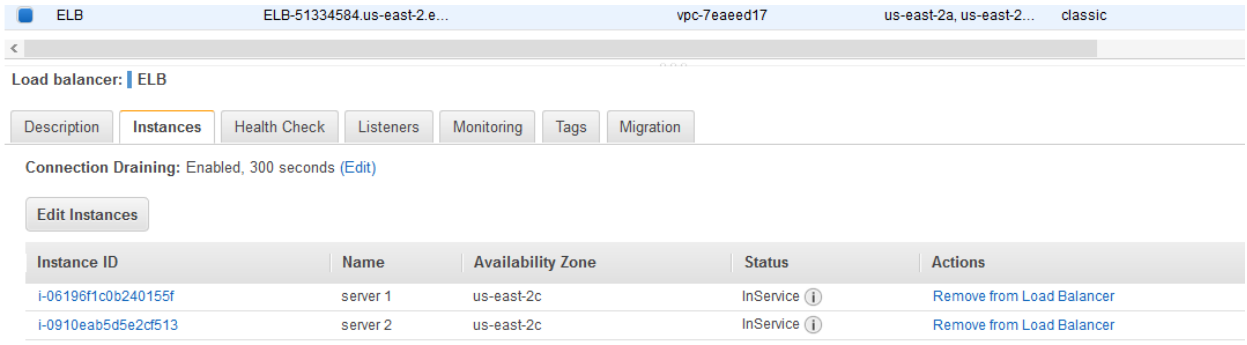
5. Add tag



6. Review and submit



7. Check status of server , it should be in IN SERVICE



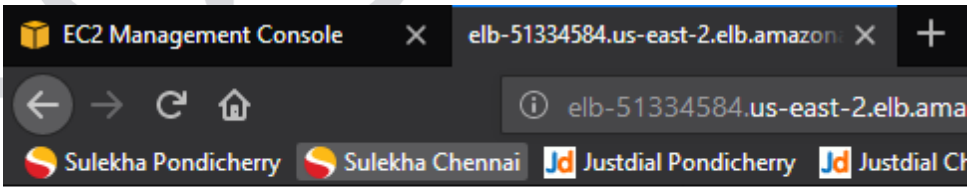
ELB ELB-51334584.us-east-2.e... vpc-7

Load balancer: ELB

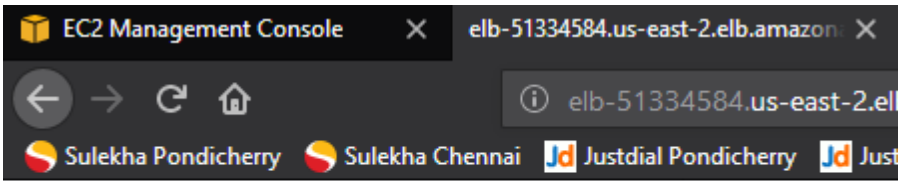
Description | Instances | Health Check | Listeners | Monitoring | Tags | Migration

Basic Configuration

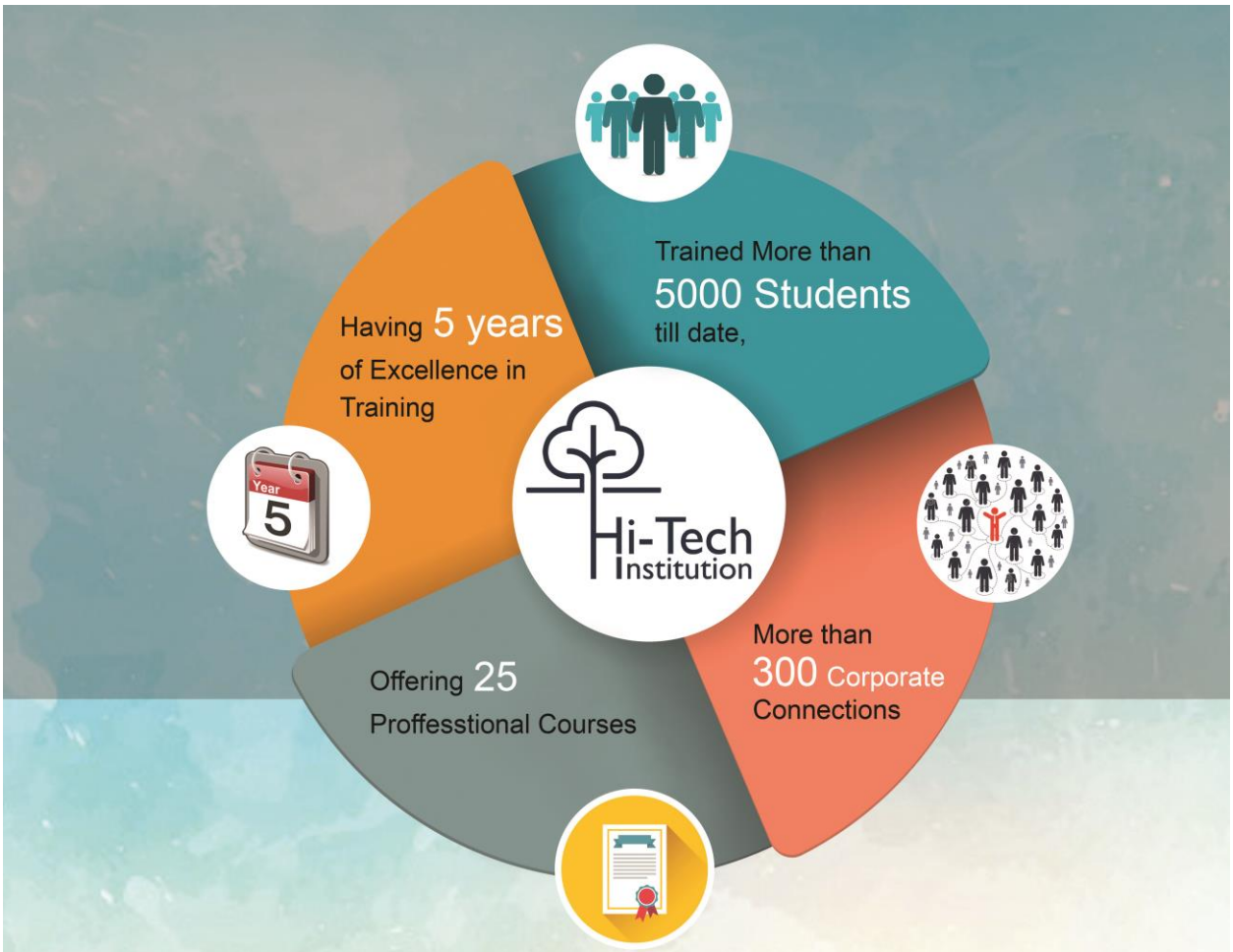
Name:	ELB
*** DNS name:**	ELB-51334584.us-east-2.elb.amazonaws.com (A Record)
Type:	Classic (Migrate Now)
Scheme:	internet-facing
Availability Zones:	subnet-0d4d1e64 - us-east-2a , subnet-4b77d106 - us-east-2c , subnet-87871bfc - us-east-2b



server 1



server 2



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