

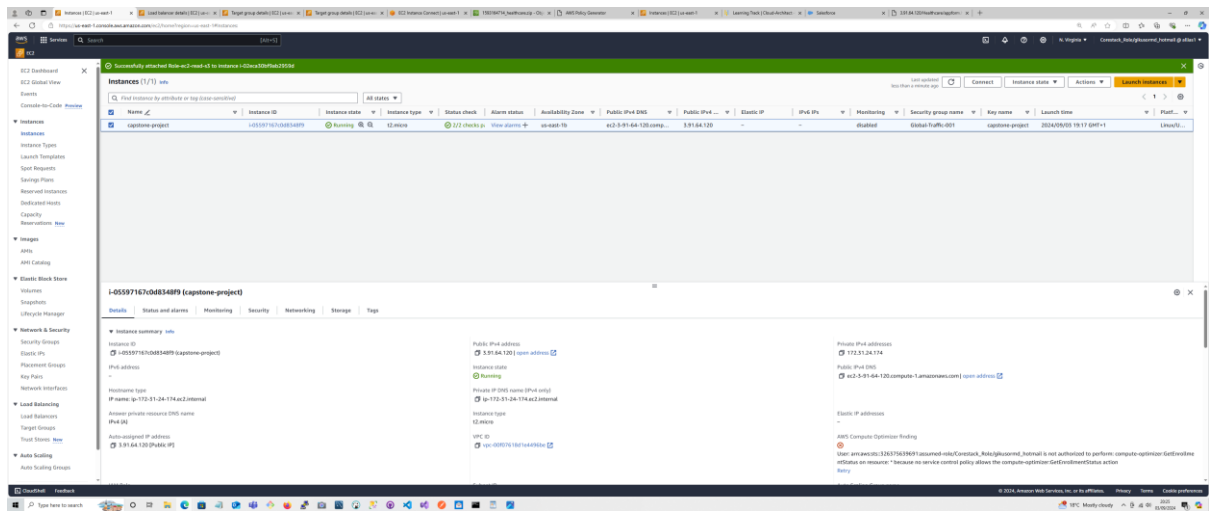
SCREEN SHOT

PROJECT No.1

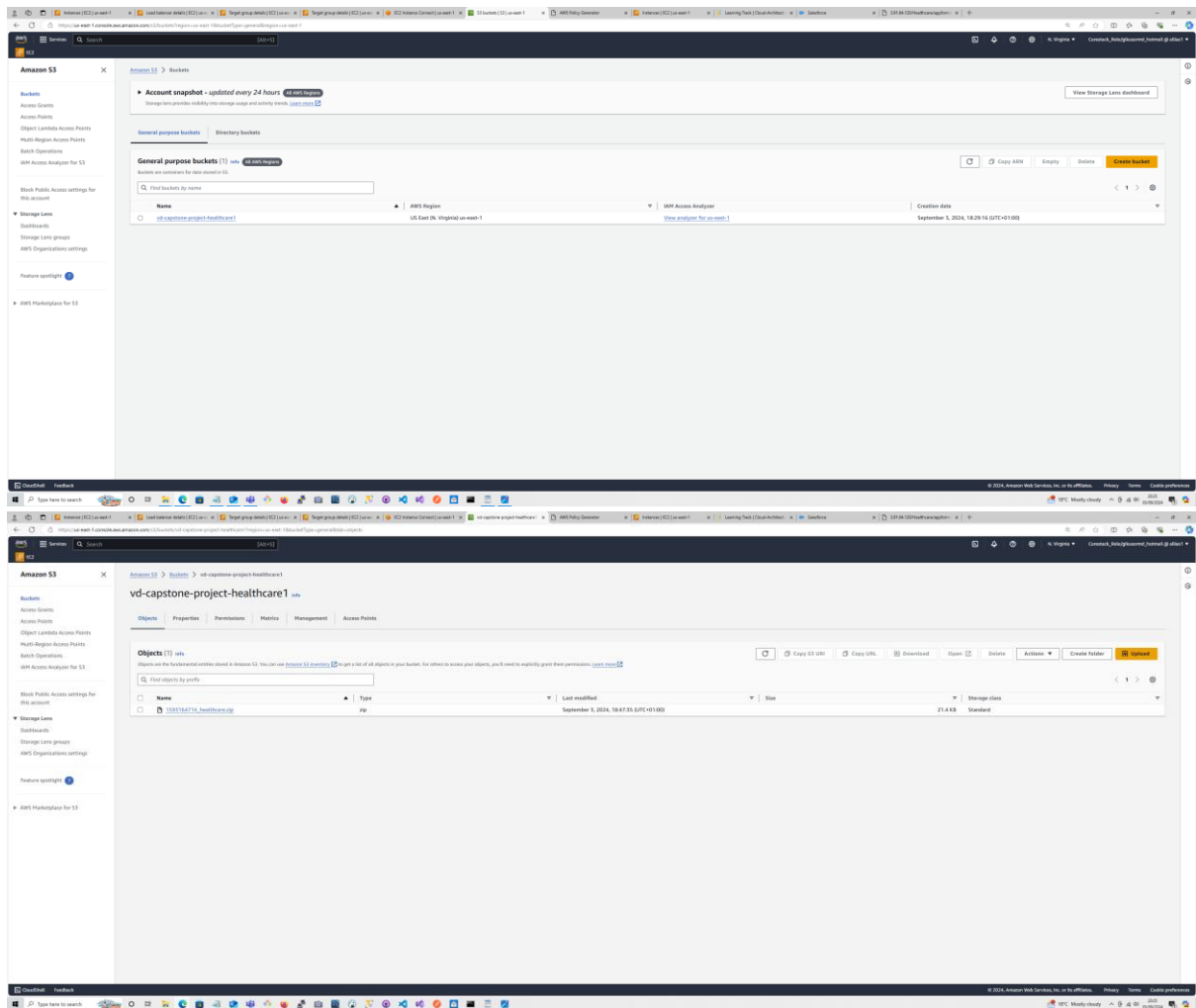
Deploying an Online Doctor's Clinic Application on Cloud

You work for a Healthcare company and as a Cloud Architect, you are asked to deploy the LiveDocApp website on cloud.

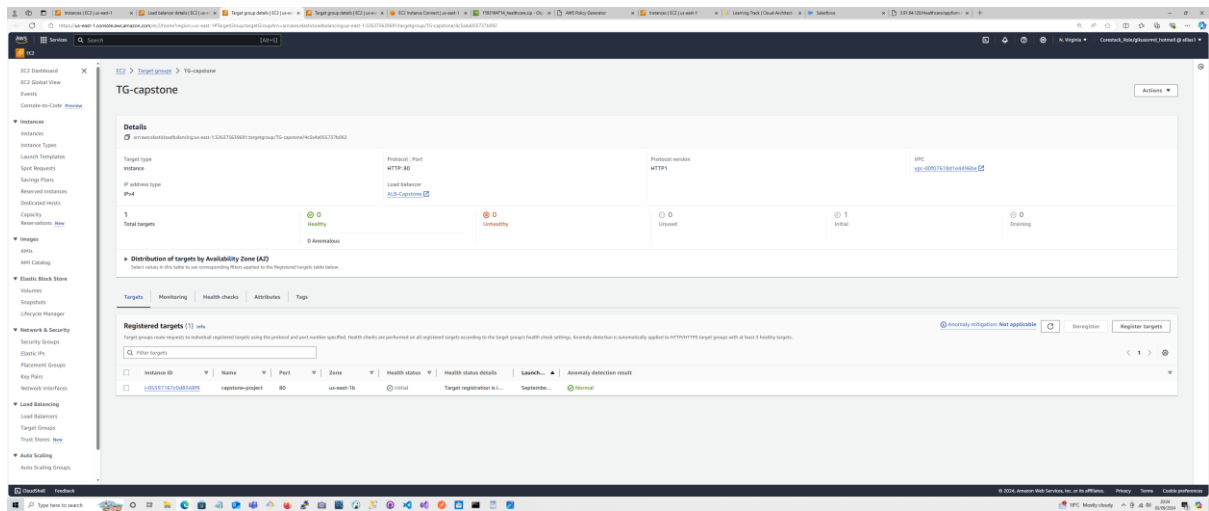
Step 1: Create EC2



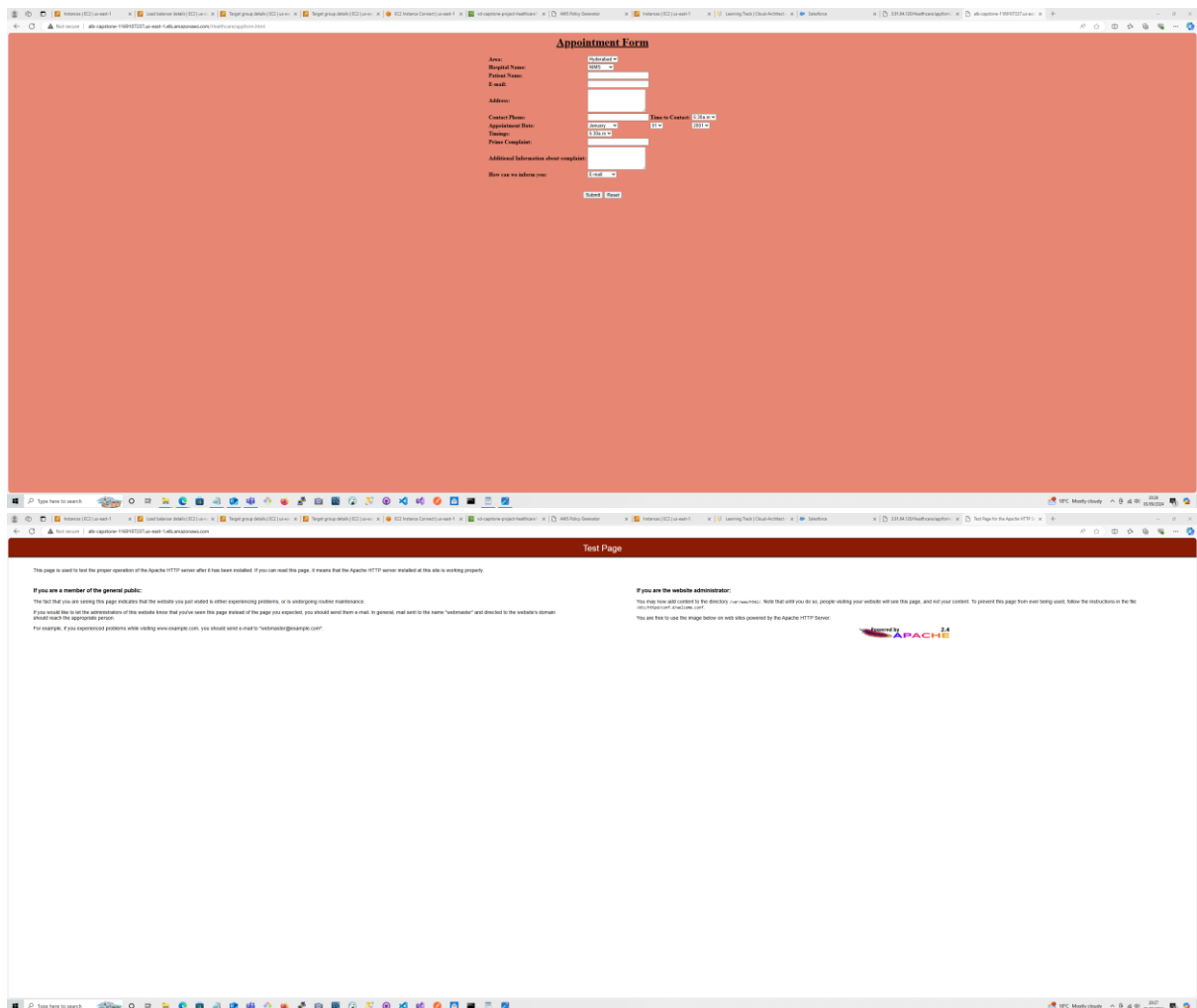
Step 2: Create Bucket S3 and upload Zip File



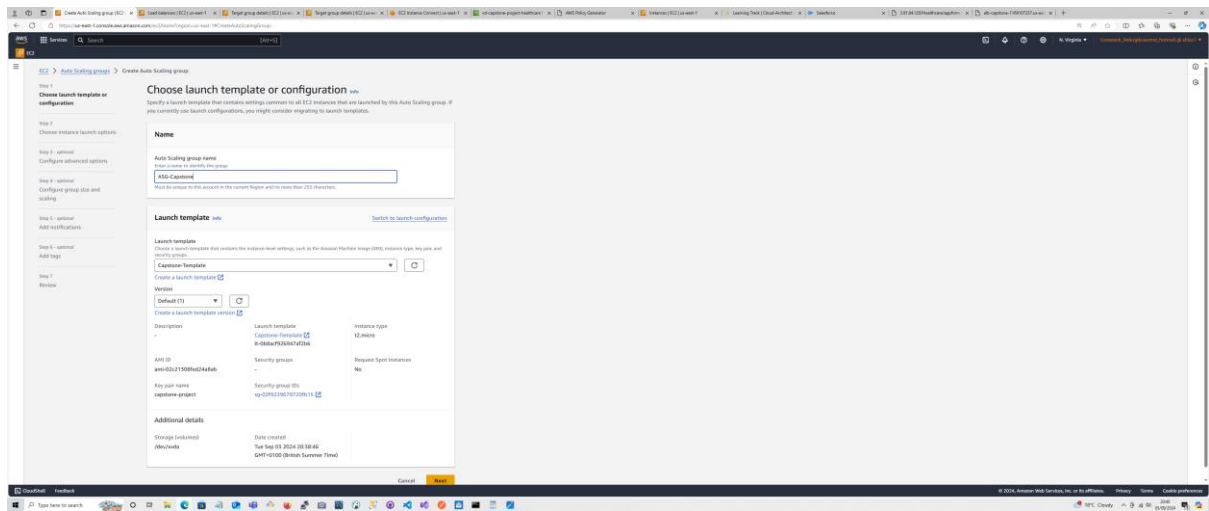
Step 3: Upload the zip file in EC2 and Unzip the File + Install HTTPD and Test with endpoint /Healthcare/App form.html.



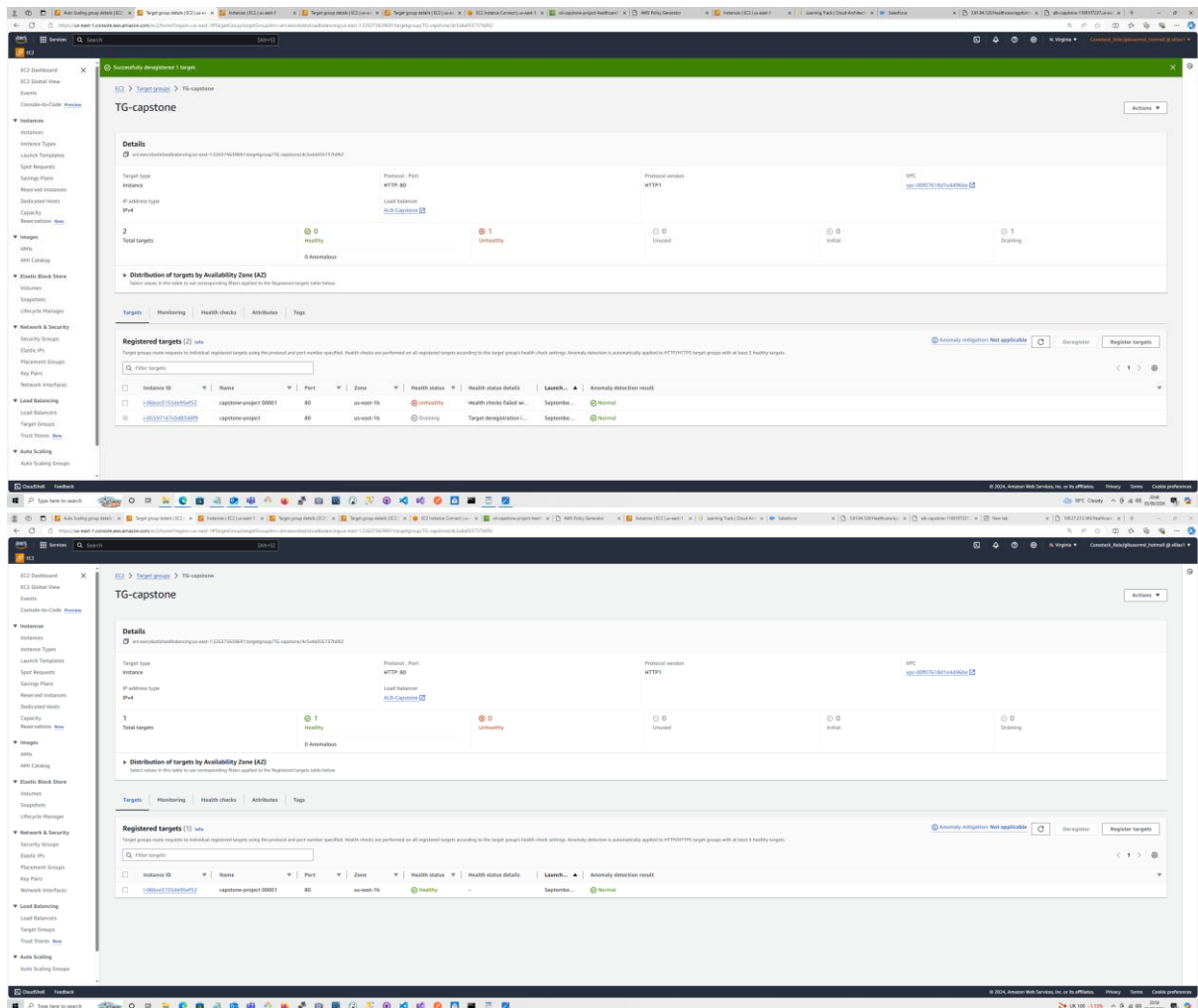
Step 6: Test DNS + with Endpoint.



Step 7: Create a Template.



Step 8: Create a Autoscaling Group + see how is working autoscaling group and from unhealthy machine make healthy.



The screenshot displays the AWS Management Console interface for the 'ASG-Capstone' Auto Scaling Group. The left sidebar shows the navigation menu with categories like Instances, Images, Elastic Block Store, and Auto Scaling Groups. The main content area is divided into two sections: 'Activity notifications' and 'Activity history'.

Activity notifications

Activity notifications (0)

Send to: [Dropdown menu] On instance action: [Dropdown menu]

No notifications are currently specified. [Create notification]

Activity history

Activity history (2)

Status	Description	Case	Start time	End time
Successful	Launching a new EC2 instance in [us-east-1a] Availability Zone. The desired capacity is 1. At 2024-09-05T10:10:00Z, an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 1 to 2.	At 2024-09-05T10:10:00Z a monitor alarm CPU-10 in state ALARM triggered policy CPU-10 changing the desired capacity from 1 to 2. At 2024-09-05T10:10:00Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 1 to 2.	2024 September 05, 09:59:59 PM +01:00	2024 September 05, 09:59:59 PM +01:00
Successful	Launching a new EC2 instance in [us-east-1a] Availability Zone. The desired capacity is 1. At 2024-09-05T10:10:00Z, an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 1 to 2.	At 2024-09-05T10:10:00Z a user request created an AutoScalingGroup changing the desired capacity from 0 to 1. At 2024-09-05T10:10:00Z an instance was started in response to a difference between desired and actual capacity, increasing the capacity from 0 to 1.	2024 September 05, 08:47:53 PM +01:00	2024 September 05, 08:47:53 PM +01:00

Auto Scaling groups

Auto Scaling groups (1)

Search your Auto Scaling groups

Name	Launch template/Configuration	Status	Desired capacity	Min	Max	Availability Zones
ASG-Capstone	CapstoneTemplate Version Default	Updating capacity...	1	1	3	us-east-1a, us-east-1b, us-east-1c, us-east-1d, us-east-1e, us-east-1f

0 Auto Scaling groups selected

Step 9: Create a Scaling Policy with alarm of CPU.

The first screenshot shows the 'ASG-Capstone' page in the AWS Management Console. It displays the 'Automatic scaling' tab, which includes 'Dynamic scaling policies (2)' and 'Predictive scaling policies (1)'. The 'CPU-10' policy is highlighted, showing its configuration: 'Policy type: Simple scaling', 'Enabled or disabled: Enabled', 'Transition policy when: Scales the alarm threshold (CPUUtilization) to 10 for 1 consecutive periods of 300 seconds for the metric dimensions', and 'Take the action: Remove 1 capacity units'. The 'CPU-50' policy is also visible, with a threshold of 50.

The second screenshot shows the 'CloudWatch' console, specifically the 'Alarms' section for 'CPU-10'. It displays a graph of 'CPUUtilization' over time, with a threshold line at 10. The 'Details' tab shows the alarm configuration: 'Name: CPU-10', 'Type: Threshold', 'Metric name: CPUUtilization', 'Statistic: Average', and 'Period: 300 seconds'. The 'Actions' tab shows the 'Remove 1 capacity units' action.

The third screenshot shows the 'CloudWatch' console, specifically the 'Alarms' section for 'CPU-10'. It displays a table of alarms, including 'CPU-10' and 'CPU-50'. The 'CPU-10' alarm is in the 'OK' state, and the 'CPU-50' alarm is in the 'OK' state. The table includes columns for 'Name', 'State', 'Last state update (Local)', 'Conditions', and 'Actions'.

Step 10: Create a Hosted zone.

