1.Schedule cron job for the below timings.

April 5th Midnight

0 0 5 4 \*

5 th of Every November,Jan,June if it is a Thursday

0 0 5 11,1,6 \*

At 05 and 27th minutes of 9,10,11 hours everyday

5,27 9-11 \* \* \*

15th second of 34 min. of 9th hour on 15th Aug

15 34 9 15 8 \*

Every midnight

0 0 \* \* \*

Every Weekend ( Saturday night 11.59 )

59 23 \* \* 6

2.Create Bash script to launch one ec2 instance in AWS.

#!/bin/bash

# Set your AWS credentials

export AWS\_ACCESS\_KEY\_ID="AKIA3SZ52I736MTVJVWE"

export AWS\_SECRET\_ACCESS\_KEY="dWayQTNu6+AtJI8vdXDXVAikKs84YLCVHW/lUg/9"

export AWS\_DEFAULT\_REGION="us-west-1" # Replace with your desired AWS region

# Set the EC2 instance details

INSTANCE\_TYPE="t2.micro"

AMI\_ID="ami-087bf433bedbc2ef7" # Replace with the desired AMI ID

KEY\_PAIR\_NAME="tata" # Replace with the desired key pair name

SECURITY\_GROUP\_NAME="default" # Replace with the desired security group name

# Create the EC2 instance

INSTANCE\_ID=$(aws ec2 run-instances \

--image-id $AMI\_ID \

--instance-type $INSTANCE\_TYPE \

--key-name $KEY\_PAIR\_NAME \

--security-groups $SECURITY\_GROUP\_NAME \

--query 'Instances[0].InstanceId' \

--output text)

# Wait for the instance to be in a running state

aws ec2 wait instance-running --instance-ids $INSTANCE\_ID

# Retrieve the public IP address of the instance

PUBLIC\_IP=$(aws ec2 describe-instances \

--instance-ids $INSTANCE\_ID \

--query 'Reservations[0].Instances[0].PublicIpAddress' \

--output text)

# Output the instance details

echo "EC2 instance created successfully!"

echo "Instance ID: $INSTANCE\_ID"

echo "Public IP: $PUBLIC\_IP"

to setup haproxy on ec2 instance

sudo yum update -y

sudo yum install haproxy –y

**vi /etc/haproxy/haproxy.cfg**

**add this before frond end**

**frontend http-in**

**bind \*:80**

**mode http**

**default\_backend servers**

**Add this under roundrobin**

**backend servers**

**mode http**

**balance roundrobin**

**server backend1 10.0.0.1:80 check**

**server backend2 10.0.0.2:80 check**

**sudo systemctl start haproxy**

**sudo systemctl enable haproxy**

**to verify use this command**

**sudo haproxy -c -f /etc/haproxy/haproxy.cfg**