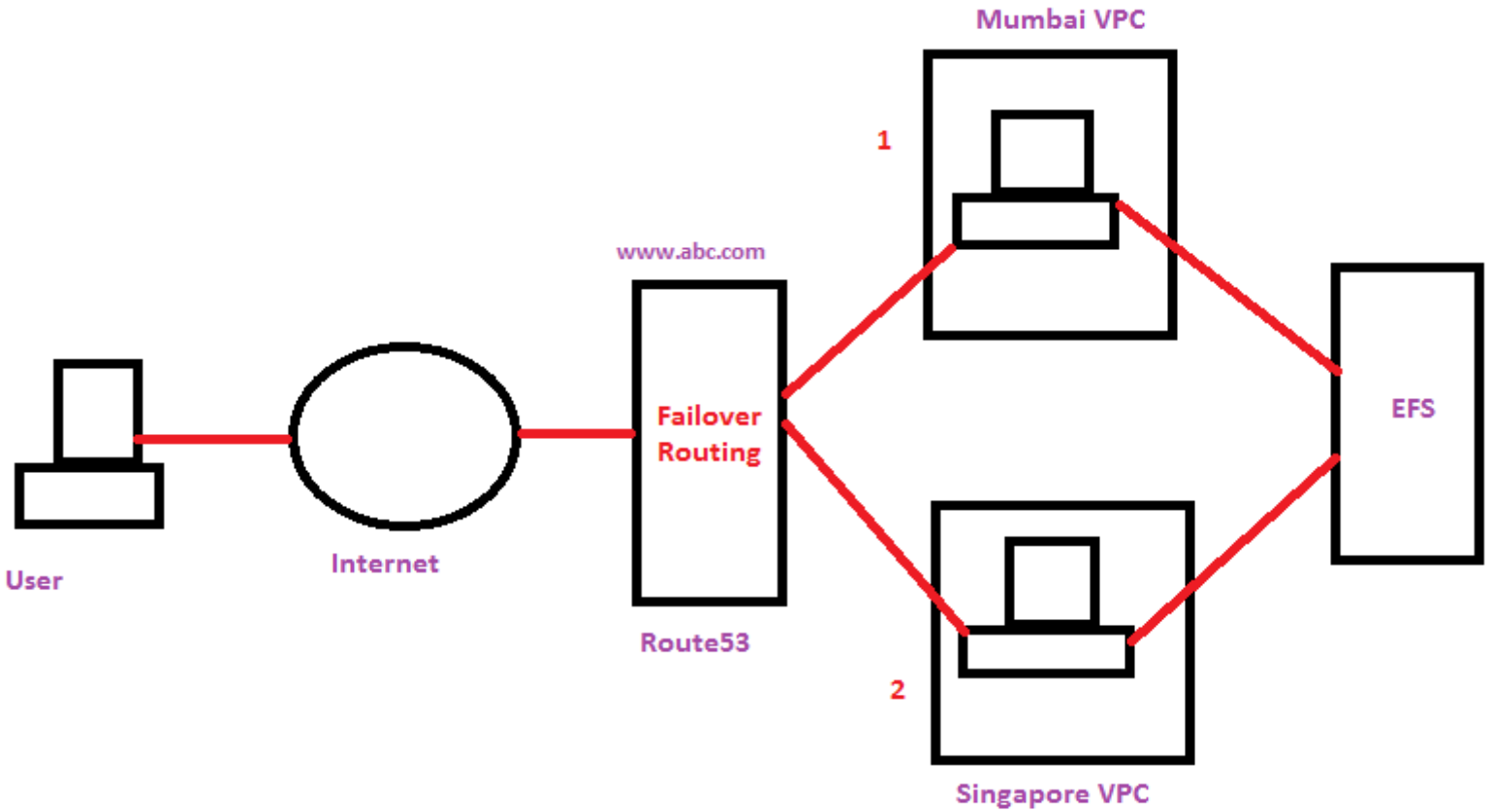
UPTIME
BALANCIN
UNSCHEDULED
SCHEDULED
MAINTENANCE
HIGH
SLA
REDUNDANCY
SYSTEM
LOAD
AVAILABILITY
IINES
FAILOVER
RELIABILITY
ACCESS
DOWNTIME
SERVICES
FAILURE

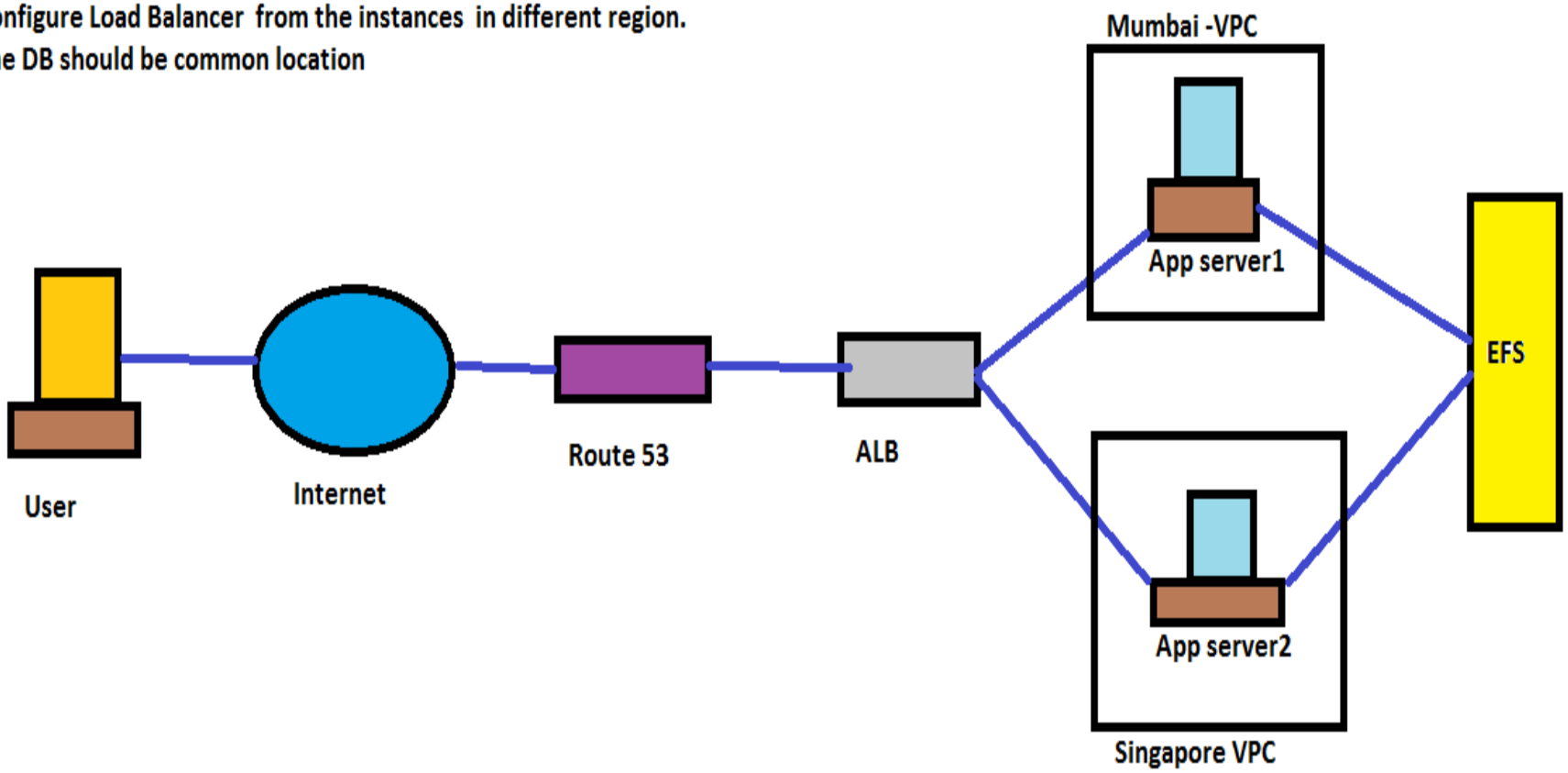
HA -Instance disaster recovery (Using route53)

Inter region Instance Failover configuration(Disaster recovery)



HA - Load Balancer from different region

Configure Load Balancer from the instances in different region.
The DB should be common location



Load Balancer from different region -- Steps

1) Create 2 VPC in Mumbai and Singapore with 2 Subnet.
2) Create peering with both mumbai and singapore VPC.
3) Create 1 instance in one subnet of mumbai and install and start httpd server/service.
4) Repeat the same in singapore region.
5) Create EFS in any region –take mumbai.
6) Connect EFS with both region Instance with mount point /var/www/html.
7) Go to /var/www/html in any one instance create one index.html file.
8) Configure ALB in Mumbai region ----with IP address and add both instances.
10) Open route 53 and add ALB dns link with domain name.
11) Using domain name check the final output in web browser

Load Balancer from different region -- Script to add with Instance

```
#!/bin/bash
yum install httpd -y
systemctl start httpd
systemctl enable httpd
yum install nfs\* -y
mount -t nfs4 -o nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvport 10.100.0.96:/ /var/www/html/
echo “10.100.0.96:/ /var/www/html/ nfs defaults 0 0 “ >> /etc/fstab
cd /var/www/html
touch index.html
echo “<html> <h1> Welcome to new era </h1> </html>” > index.html
```