

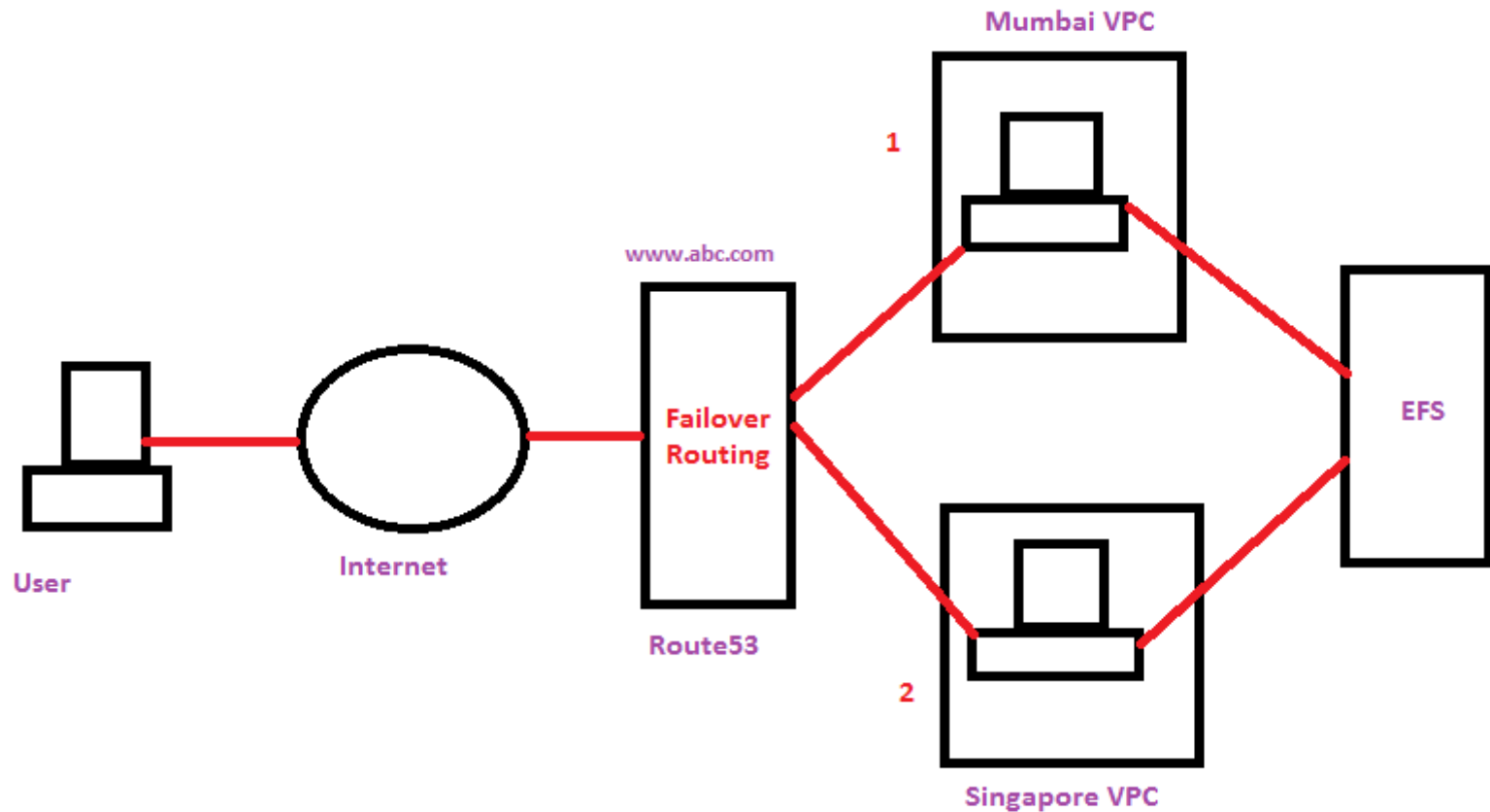
A word cloud centered around the phrase "HIGH AVAILABILITY". The words are arranged in a circular pattern, with "HIGH" and "AVAILABILITY" being the largest and most prominent. Other words include "SLA", "SYSTEM", "UPTIME", "DOWNTIME", "RELIABILITY", "ACCESS", "SERVICES", "FAILURE", "LOAD", "LINES", "MAINTENANCE", "REDUNDANCY", "UNSCHEDULED", "SCHEDULED", "BALANCING", and "FAILOVER". The words are in various colors (black, orange, grey) and orientations (horizontal, vertical, diagonal). A faint "CanStock" watermark is visible in the background.

HIGH AVAILABILITY

SLA
SYSTEM
UPTIME
DOWNTIME
RELIABILITY
ACCESS
SERVICES
FAILURE
LOAD
LINES
MAINTENANCE
REDUNDANCY
UNSCHEDULED
SCHEDULED
BALANCING
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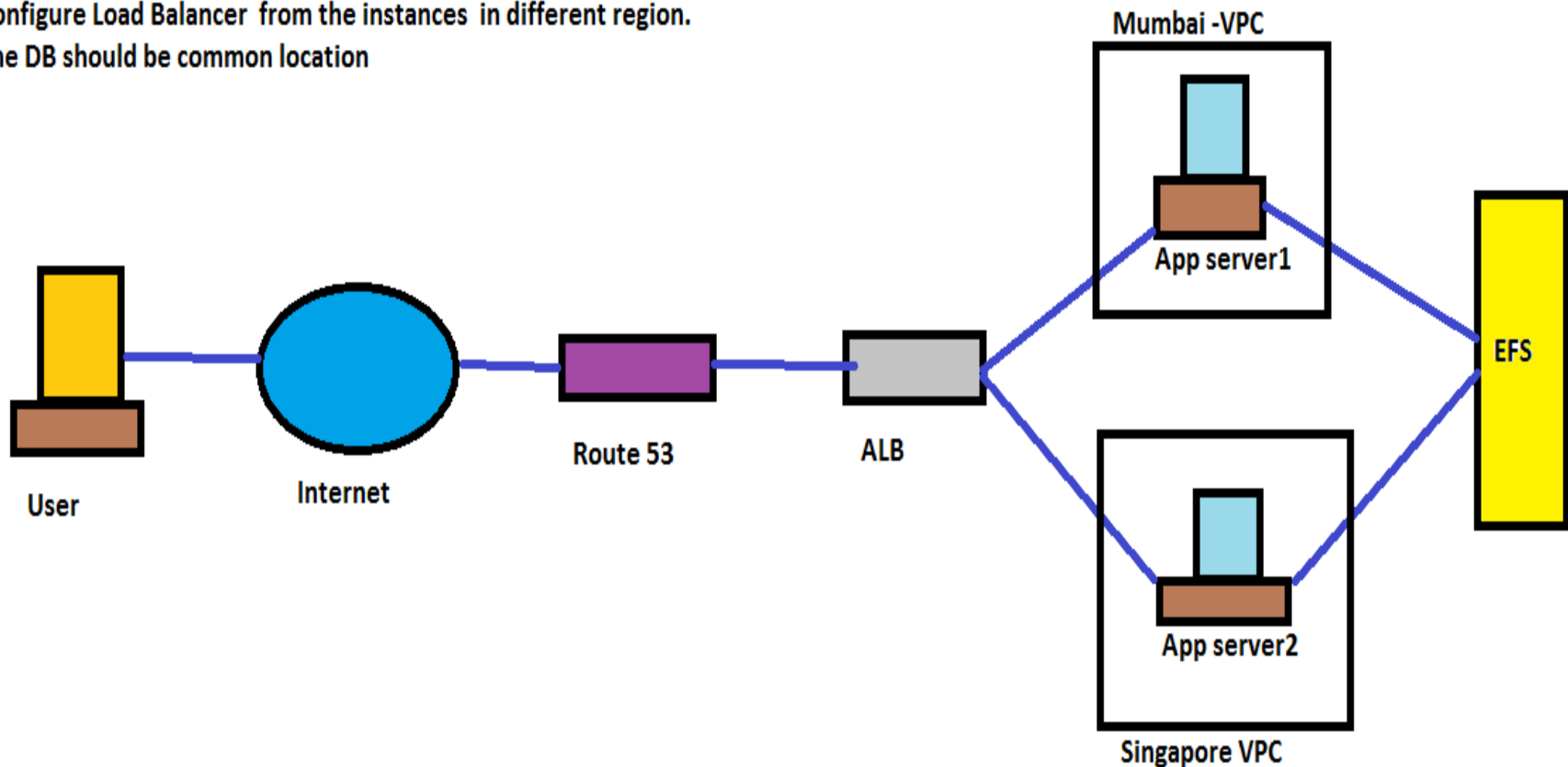
HA -Instance disaster recovery (Using route53)

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,rsiz=1048576,wsiz=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
```