**Solution for Moving Application Stack on AWS Cloud**

**Taking Care of Apache web server for high availiabilty**

### *1) Create a role in which webserver ec2 of public subnet will communicate with ec2 application server of private subnet.*

### *2) Create a role in which webserver ec2 of public subnet will communicate with s3 bucket to download files.*

### *3) Create a launch configuration with 3 ec2 instance and using amaozon linux image and auto scaling it as per threshold value from client. In three different Availability zones.*

### *4) Assign the role created for webservers to these ec2 instance and edit bootstrap script for installing the apache web server, starting it, and copy the web page contents from s3.*

### *5) Create a Elastic load balancer (ELB) and assign these ec2 instance to it.*

### *6) Configure the route53 to serve the contents through ELB.*

**Taking care of application server**

### *1) Create a role in which application server ec2 of private subnet will communicate with mongodb RDS instance.*

### *2) Use SQS, message queue service*

### *3) Create a launch configuration with 1 ec2 instance and using XYZ Linux image and autoscaling it as per threshold value from client.*

### *4) Assign the role of to ec2 instance to the machine*

**Taking care of MongoDB Databse server with high availiabilty.**

1. *create a RDS instance with mongodb installed (high availability will be taken care by Amazon)*

**Taking care of administration from Local premises to amazon webservices**

*1) Install direct connect devices from it premises to AWS*

1. *Lease line also available with local vendor upto 1GB.*
2. *AD connector would be required.*
3. *Opening security group and network ACL ports only from local IT premises.*
4. *Backup can be scheduled to S3 with life cycle management.*
5. *Taking snapshot of EBS volumes for disaster.*
6. *we would suggest setting a billing alaram,MFA authnetication.*

### There is cost calculator if you want I can calculate the amount for you.

**So we would be using following paid services.**

#### 1) EC2

#### 2) ELB

#### 3) AD connector

#### 4) MongoDB RDS instance

#### 5) Direct Connect.

#### 6) S3 -Glacier

#### 7) route53

#### 8) Elastic IP address (free until not waited)

#### 9) Cloudtrail(for auditing logs) and cloudwatch (for system utilization logs).

#### 10) EBS volumes for ec2 instance as required and as allocated.