



Welcome To The Project

AWS PROJECT



LIFT & SHIFT APPLICATION WORKLOAD

AWS PROJECT



About The Project

Multi Tier Web Application Stack[VPROFILE]

Host & Run on AWS Cloud for Production

Lift & Shift Strategy

There is a crisis: the world is being taken over by badly designed and underperforming presentations. A meeting of some of the world's best presentation designers has gathered to create an antidote: a software called presentation. This antidote is so awesome and effective that bad presentations may be entirely wiped out from the face of this planet.

gathered to create an antidote: a software called presentation. This antidote is so awesome and effective that bad presentations may be entirely wiped out from the face of this planet.

SCENARIO

Application Services running on
Physical/Virtual machines

Work load in your Datacenter.

There is a crisis the world is being taken over by
badly designed and unattractive presentations, a
rising tide of corporate but limited resources have
gathered to create an antidote, a software called
powerpoint. This antidote is so awesome and effective
that bad presentations may be entirely wiped out
from the face of this planet!

gathered to create an antidote, a software called
powerpoint. This antidote is so awesome and effective
that bad presentations may be entirely wiped out
from the face of this planet!



SCENARIO

Virtualization team, DC OPS Team, Monitoring team, Sys Admins etc involved.



There is a crisis the world is being taken over by badly designed and unattractive presentations, a rising tide of corporate but limited accounts have gathered to create an antidote, a software called powerpoint. This antidote is so awesome and effective that bad presentations may be entirely wiped out from the face of this planet.

gathered to create an antidote, a software called powerpoint. This antidote is so awesome and effective that bad presentations may be entirely wiped out from the face of this planet.



PROBLEM

Complex Management

Scale UP/Down complexity.

UpFront CapEx & Regular OpEx

There is a crisis the world is being taken over by
badly designed and unattractive presentations, a
major cause of corporate failure. Scientists have
gathered to create an antidote. It's software called
PowerPoint. This antidote is so awesome and effective
that bad presentations may be entirely wiped out
from the face of this planet.

gathered to create an antidote, a software called
PowerPoint. This antidote is so awesome and effective
that bad presentations may be entirely wiped out
from the face of this planet.

PROBLEM

Manual Process

Difficult to automate.

Time Consuming.

There is a crisis the world is being taken over by
badly designed and unattractive presentations, a
rising tide of mediocre but brilliant speakers have
gathered to create an antidote. It's software called
powerpoint. This antidote is so awesome and effective
that bad presentations may be entirely wiped out
from the face of this planet.

gathered to create an antidote, a software called
powerpoint. This antidote is so awesome and effective
that bad presentations may be entirely wiped out
from the face of this planet.

SOLUTION

✓ AUTOMATION

IAAS ✓

CLOUD SETUP

✓ PayAsUgo

Flexibility ✓

Ease of Infra Management.

AWS SERVICES

EC2 INSTANCES

ELB[LOAD BALANCER]

AUTOSCALING

S3/EFS Storage

ROUTE 53

VM FOR TOMCAT, RABBITMQ
MEMCACHE, MYSQL

NGINX LB REPLACEMENT

AUTOMATION FOR VM SCALING

SHARED STORAGE

PRIVATE DNS SERVICE



OBJECTIVE

FLEXIBLE INFRA

NO UPFRONT COST

Modernize Effectively

IAAC



There is a crisis the world is being taken over by
badly designed and unattractive presentations, a
major loss of revenue but limited resources have
gathered to create an antidote, a software called
powerpoint This antidote is so awesome and effective
that bad presentations may be entirely wiped out
from the face of this planet!

gathered to create an antidote, a software called
powerpoint This antidote is so awesome and effective
that bad presentations may be entirely wiped out
from the face of this planet!



ARCHITECTURE OF AWS SERVICES FOR THE PROJECT

EC2 INSTANCES

ELB

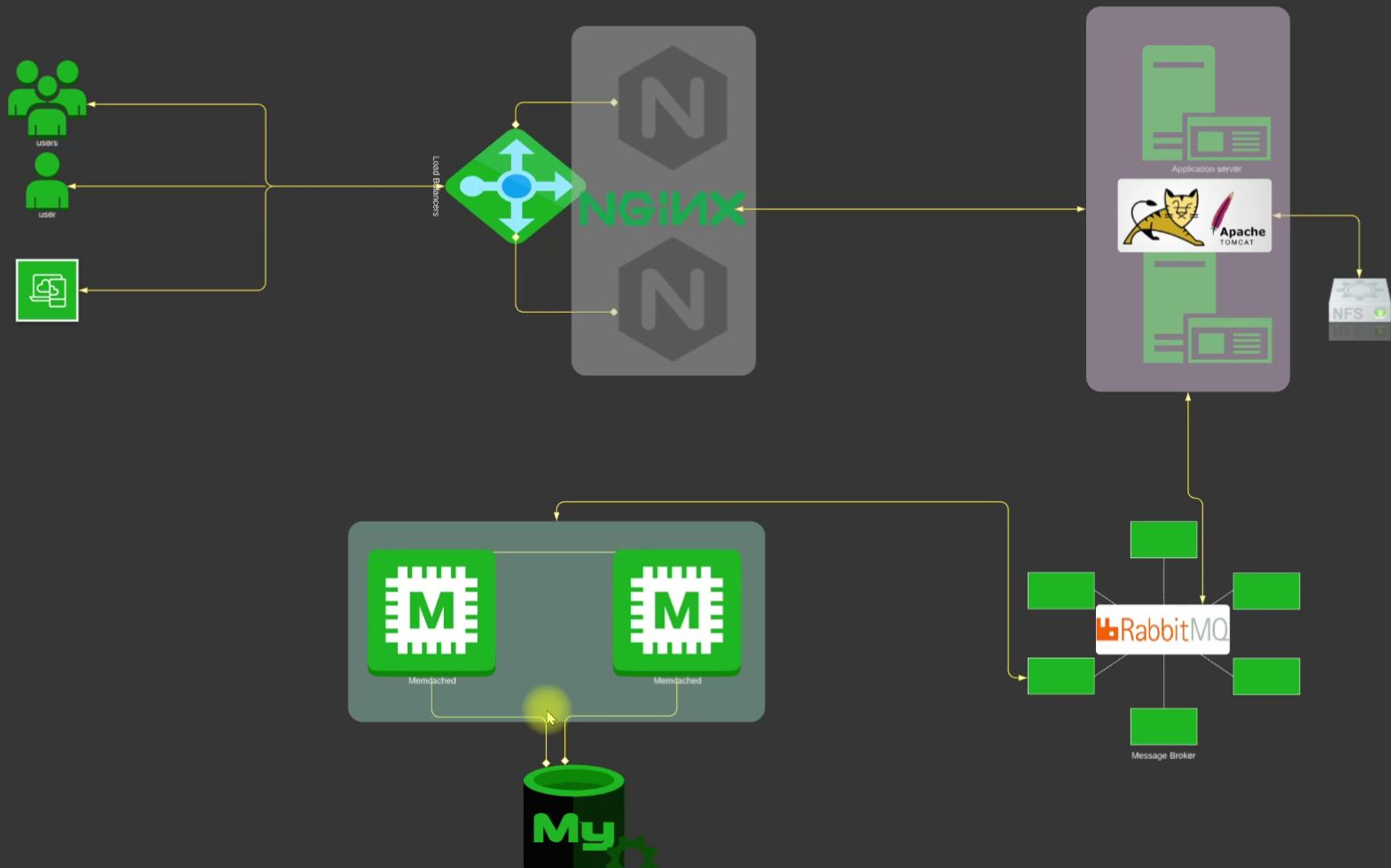
AUTOSCALING

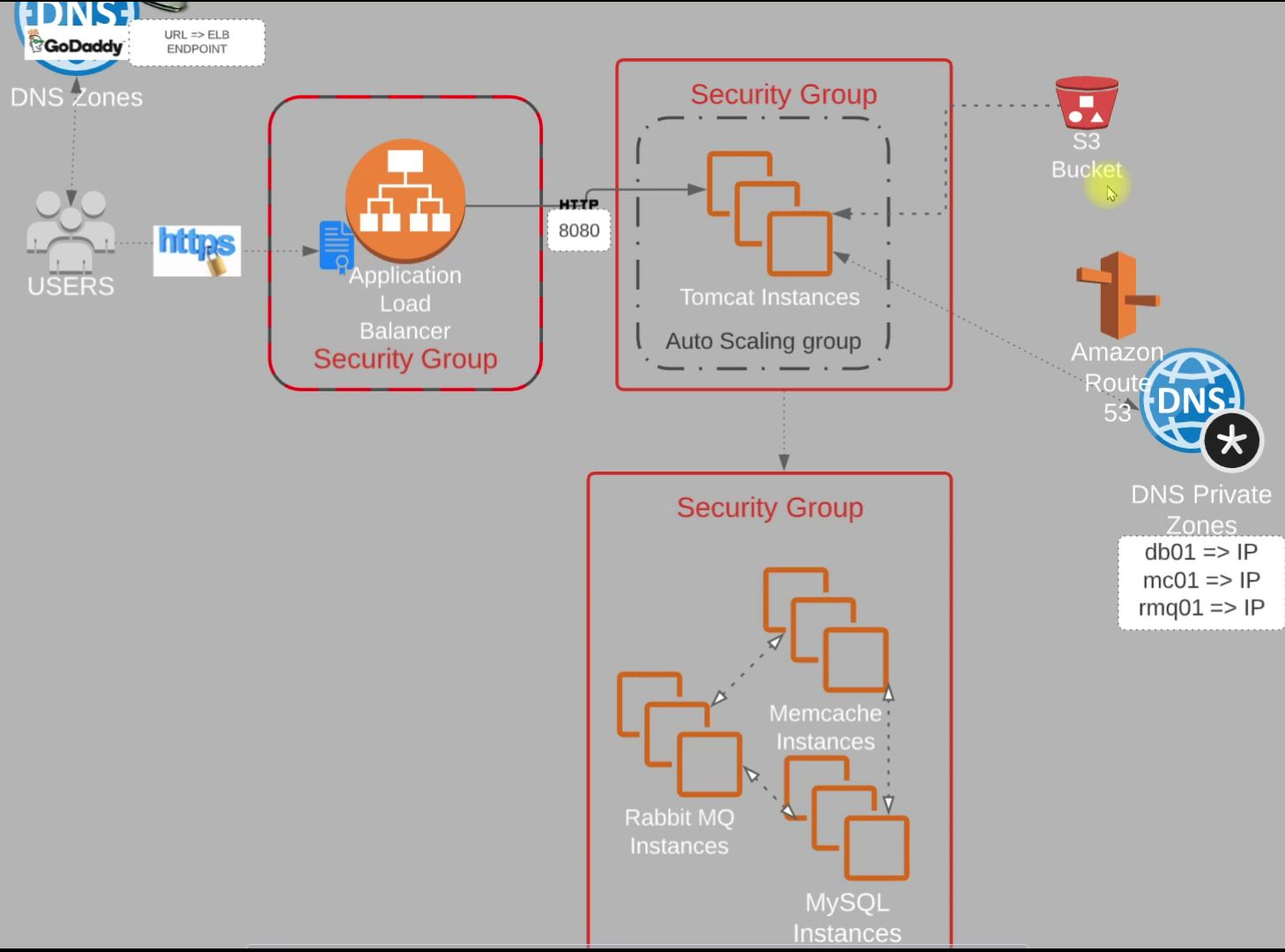
EFS/S3 FOR SHARED STORAGE

AMAZON CERTIFICATE MANAGE

ROUTE 53







FLOW OF EXECUTION

1. Login to AWS Account
2. Create Key Pairs
3. Create Security groups
4. Launch Instances with user data [BASH SCRIPTS]
5. Update IP to name mapping in route 53
6. Build Application from source code
7. Upload to S3 bucket
8. Download artifact to Tomcat Ec2 Instance
9. Setup ELB with HTTPS [Cert from Amazon Certificate Manager]
10. Map ELB Endpoint to website name in Godaddy DNS
11. Verify
12. Build Autoscaling Group for Tomcat Instances.