

Welcome To The Project



AWS Project

About The Project

Multi Tier Web Application Stack[VPROFILE]

Re-Architect Services for AWS Cloud

Architecture to boost agility
or improve business continuity.

There is a crisis: the world is being taken over by
badly designed and underperforming presentations. A
meeting of our brightest and 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.

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SCENARIO

PROJECT services running on
Physical/Virtual/Cloud machines.

Varieties of services that powers your
project runtime.



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!

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SCENARIO

Cloud Computing Team
Virtualization team
DC OPS Team
Monitoring team
Sys Admins etc involved.



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presentation. This archive is so awesome and effective
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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
suffered to create an archive, a software called
presentation. This archive is so awesome and effective
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PROBLEM

Operational Overhead

Struggling with Uptime & Scaling

UpFront CapEx & Regular OpEx

Manual Process / Difficult
to automate.

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badly designed and unattractive presentations, a
major loss of revenue for business owners have
gathered to create an antidote. It's software called
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SOLUTION

✓ AUTOMATION

IAAC ✓

CLOUD SETUP

PayAsUgo ✓

✓ PAAS&SAAS

Flexiblity ✓

Ease of Infra Management.

AWS SERVICES

BEANSTALK

BEANSTALK

BEANSTALK

S3/EFS

VM FOR TOMCAT(app server)

NGINX LB REPLACEMENT

AUTOMATION FOR VM SCALING

STORAGE

INFRA ON AWS CLOUD

AWS SERVICES

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graph LR; subgraph AWS_SERVICES [AWS SERVICES]; RDS[RDS INSTANCE]; EC[ELASTIC CACHE]; AM[ACTIVE MQ]; R5[ROUTE53]; CF[CLOUDFRONT]; end; subgraph CATEGORIES; DB[DATABASES]; MC[MEMCACHED]; RM[RABBIT MQ]; DNS[DNS]; CDN[CONTENT DELIVERY NETWORK]; end; RDS --- DB; EC --- MC; AM --- RM; R5 --- DNS; CF --- CDN;
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RDS INSTANCE

ELASTIC CACHE

ACTIVE MQ

ROUTE53

CLOUDFRONT

DATABASES

MEMCACHED

RABBIT MQ

DNS

CONTENT DELIVERY
NETWORK

INFRA ON AWS CLOUD

OBJECTIVE

FLEXIBLE INFRA

NO UPFRONT COST

IAAC

PAAS

SAAS

There is a crisis: the world is being taken over by
belligerent and unscrupulous presentation. A
mighty out of resources for brilliant scientists have
gathered to create an antidote: a software called
presentation. This software is so powerful and effective
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COMPARISON

BEANSTALK

ELB IN BEANSTALK

AUTOSCALING

EFS/S3

RDS

ELASTIC CACHE

ACTIVE MQ

ROUTE53

CLOUDFRONT

TOMCAT Ec2/VM

NGINX LB/ELB

NONE / Autoscaling

NFS / S3/ EFS

MYSQL ON VM/Ec2

MEMCACHED ON VM/Ec2

RABBITMQ ON VM/Ec2

GODADDY, LOCAL DNS

NONE / MULTI DC ACROSS
WORLD



ARCHITECTURE OF AWS SERVICES FOR PROJECT

EC2 INSTANCES

ELB

AUTOSCALING

EFS/S3

RDS

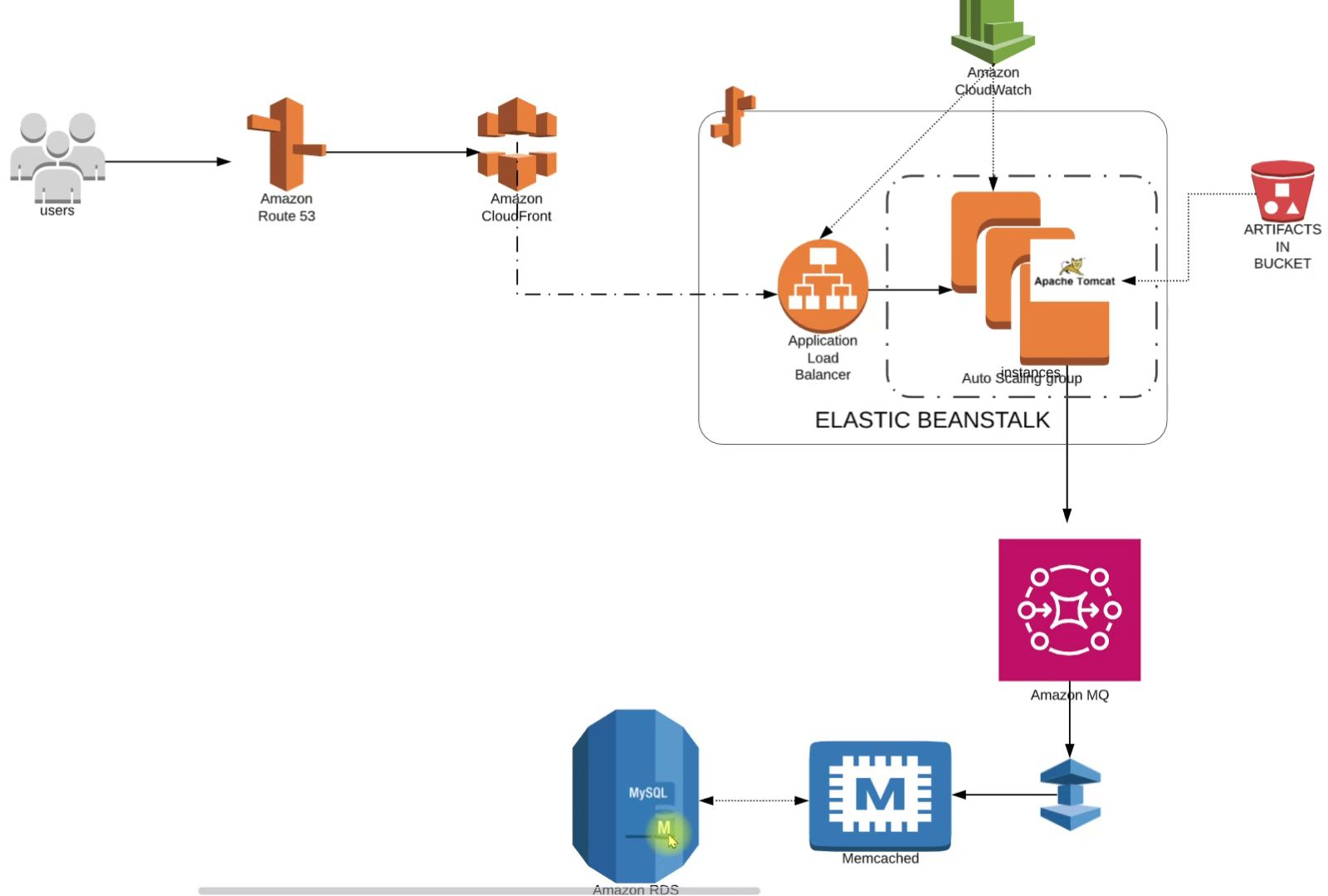
ELASTIC CACHE

ACTIVE MQ

ROUTE53

CLOUDFRONT





FLOW OF EXECUTION

- ❖ Login to aws account
- ❖ Create Key pair for beanstalk instance login
- ❖ Create Security Group for Elasticcache, RDS & ActiveMQ
- ❖ Create
 - RDS
 - Amazon Elastic Cache
 - Amazon Active MQ
- ❖ Create Elastic Beanstalk Environment
- ❖ Update SG of backend to allow traffic from Bean SG
- ❖ Update SG of backend to allow internal traffic

FLOW OF EXECUTION

- ❖ Launch Ec2-Instance for DB Initializing
- ❖ Login to the instance and Initialize RDS DB
- ❖ Change healthcheck on beanstalk to /login
- ❖ Add 443 https Listener to ELB
- ❖ Build Artifact with Backend Information
- ❖ Deploy Artifact to Beanstalk
- ❖ Create CDN with ssl cert
- ❖ Update Entry in GoDaddy DNS Zones
- ❖ Test the url