



# LIFT & SHIFT APPLICATION WORKLOAD

AWS PROJECT

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## About The Project/

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Multi Tier Web Application Stack[VPROFILE]

Host & Run on AWS Cloud for Production

Lift & Shift Strategy



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Application Services running on Physical/Virtual machines



Work load in your Datacenter.

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#### SCENARIO

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







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#### **PROBLEM**

Complex Management

Scale UP/Down complexity.

UpFront CapEx & Regular OpEx

**PROBLEM** 

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Manual Process

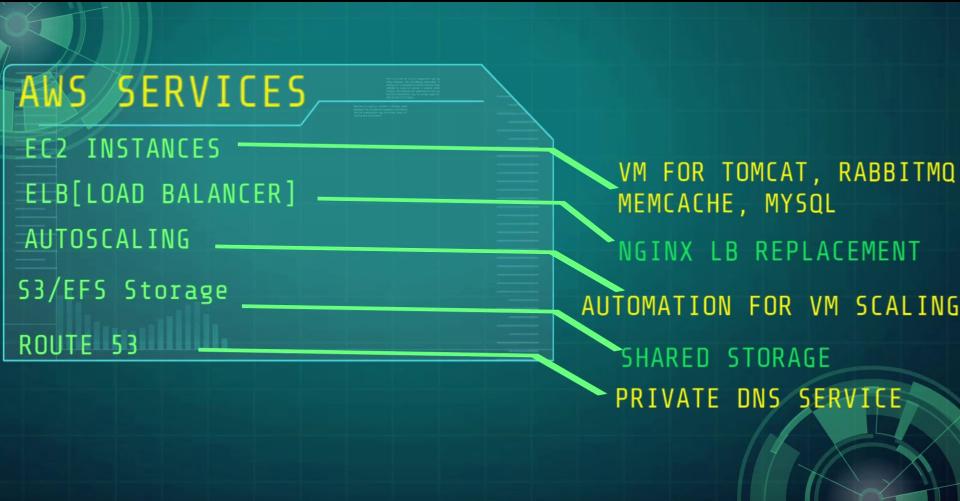
Difficult to automate.

Time Consuming.

# SOLUTION



Ease of Infra Management.



# OBJECTIVE

FLEXIBLE INFRA
NO UPFRONT COST
Modernize Effectively
IAAC

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# ARCHITECTURE OF AWS SERVICES FOR THE PROJECT

EC2 INSTANCES

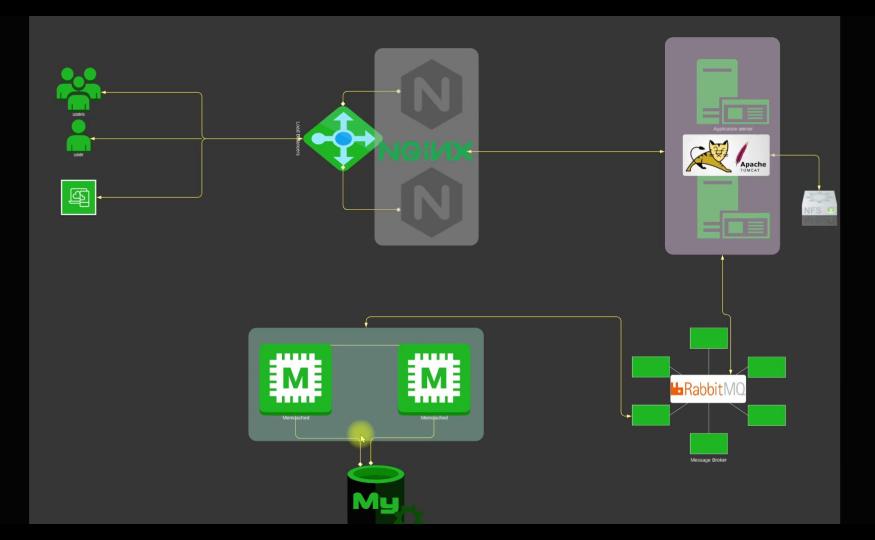
ELB

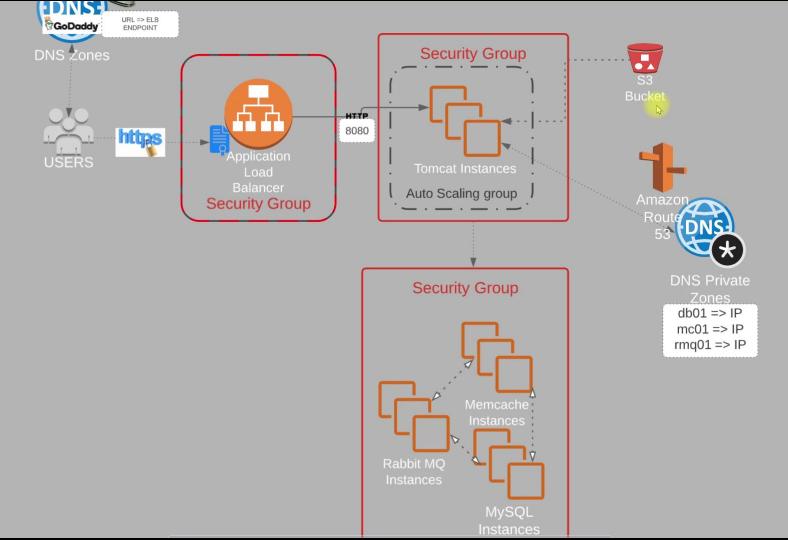
AUTOSCALING

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
- 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.