ORACLE PEOPLESOFT ERP SYSTEMS' ON-PREM TO CLOUD MIGRATION PLAN

BY HARSHITHA ANUGANTI

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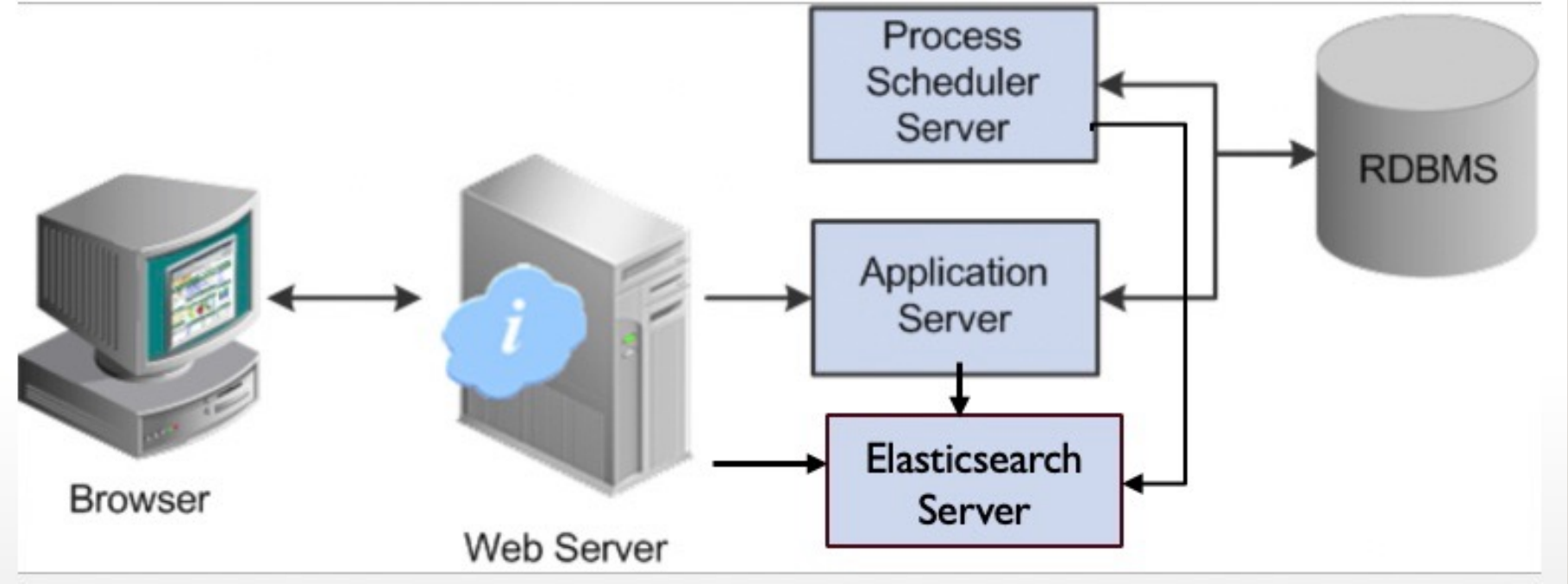
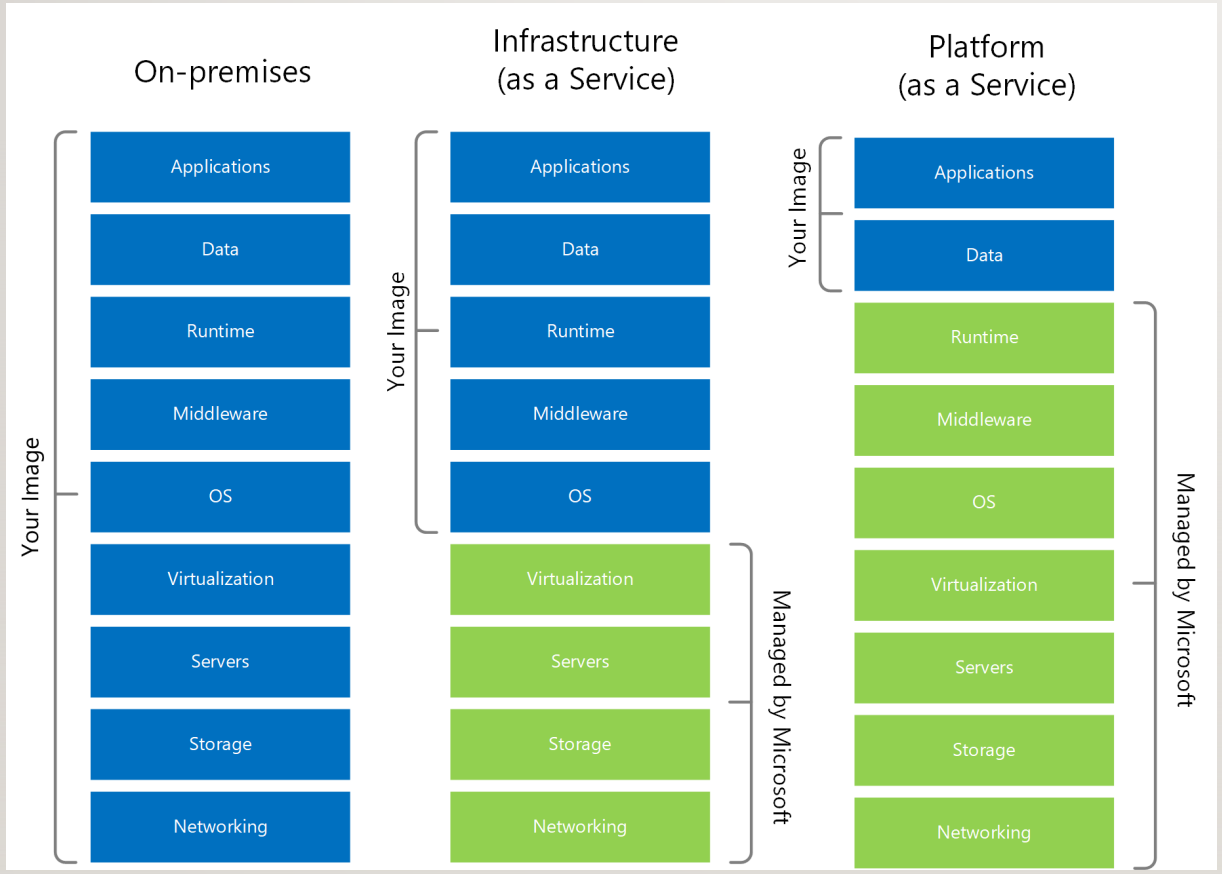


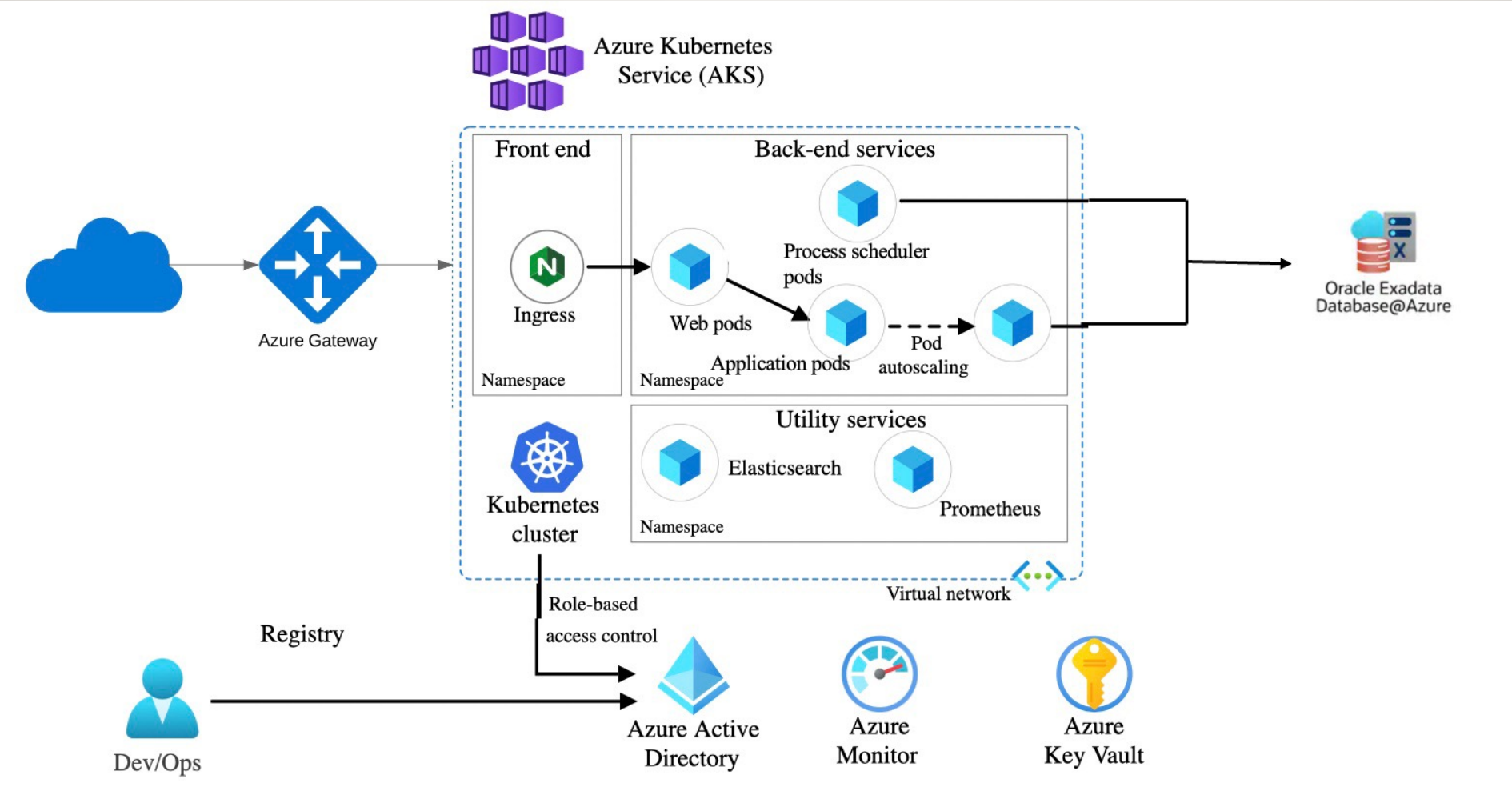
EXISTING ON-PREM ARCHITECTURE



ISSUES WITH LIFT & SHIFT

Using Paas models over the Virtual machines(Iaas) provides:

- greater flexibility and scalability.
- pay-as-you-go model=>cost cutdown.
- No infrastructure management.



PROPOSED HIGH LEVEL ARCHITECTURE ON CLOUD

COMPLIANCE WITH NIST 800-171

Azure Government

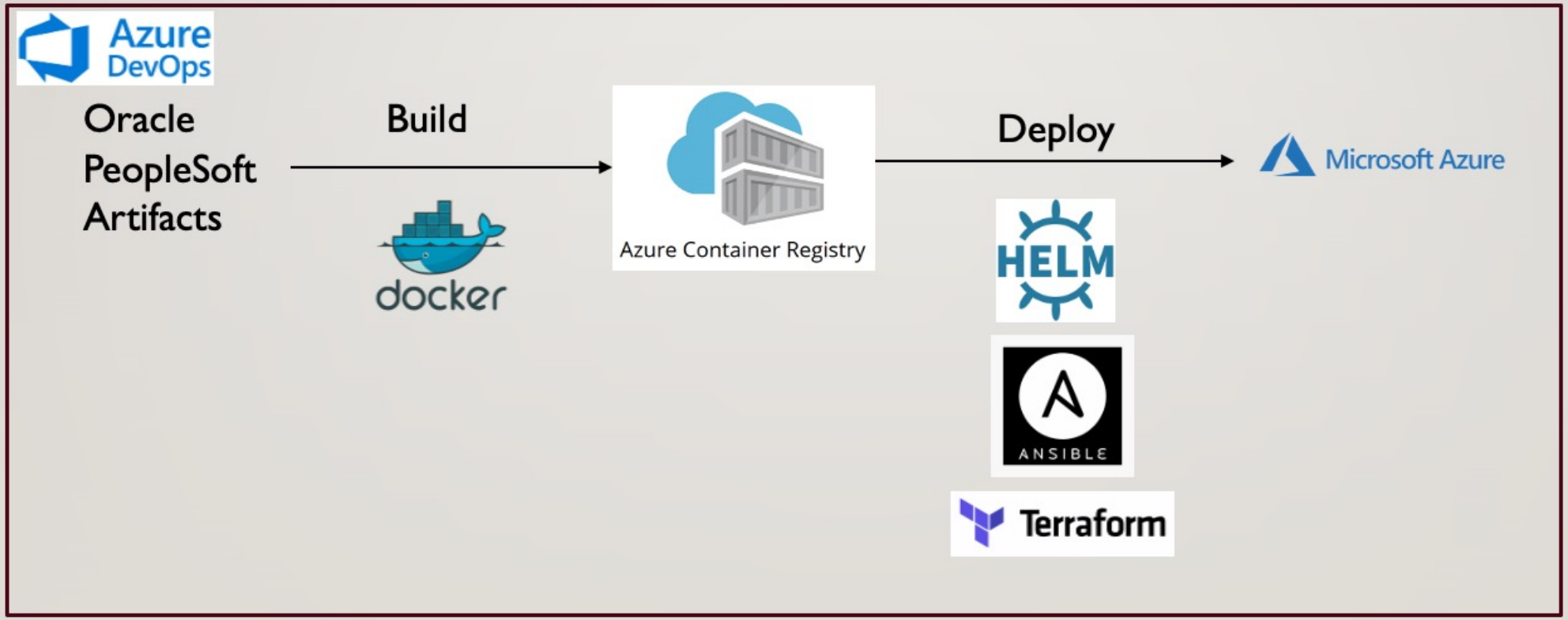
Azure Government services can accommodate data that is subject to various US government regulations and requirements. To provide you with the highest level of security and compliance, Azure Government uses physically isolated datacenters and networks located in the US only

TECHNOLOGY CONSIDERATIONS

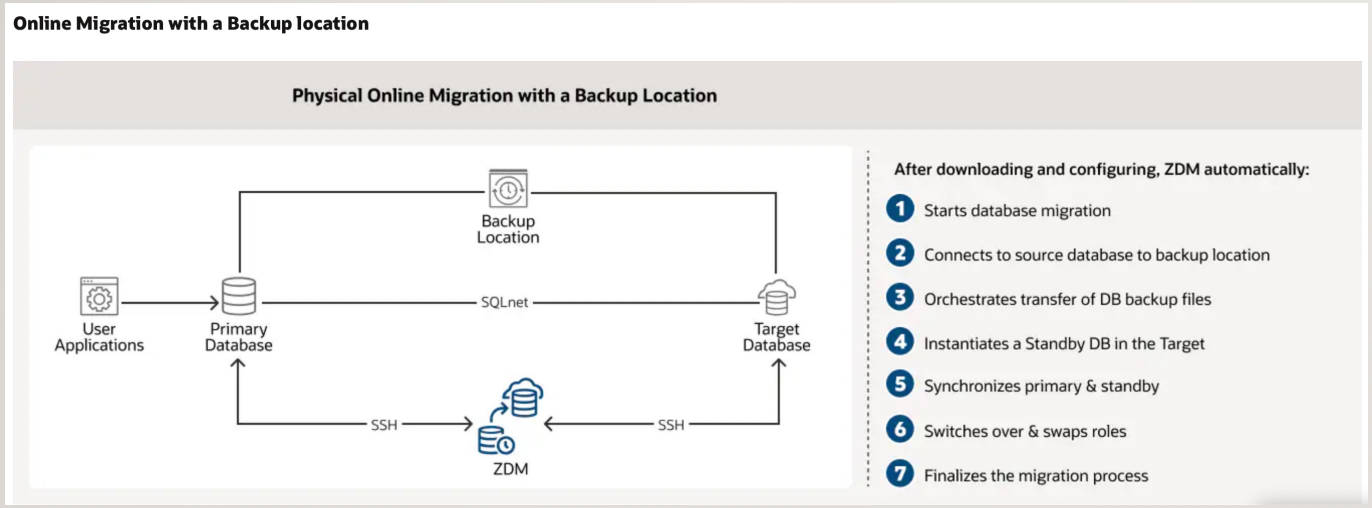
Why Containerization?

- quicker to deploy
- Highly scalable and fault-tolerant systems.
- AKS costs nothing; you pay only for the worker node resources instead of VMs, vnet, public IPs, load balancers, storage accounts.
- Huge reduction in support and maintenance overhead. No patching and hardening (other than k8 upgrades). Massive reduction in platform deployment effort.

CI/CD PIPELINE DESIGN

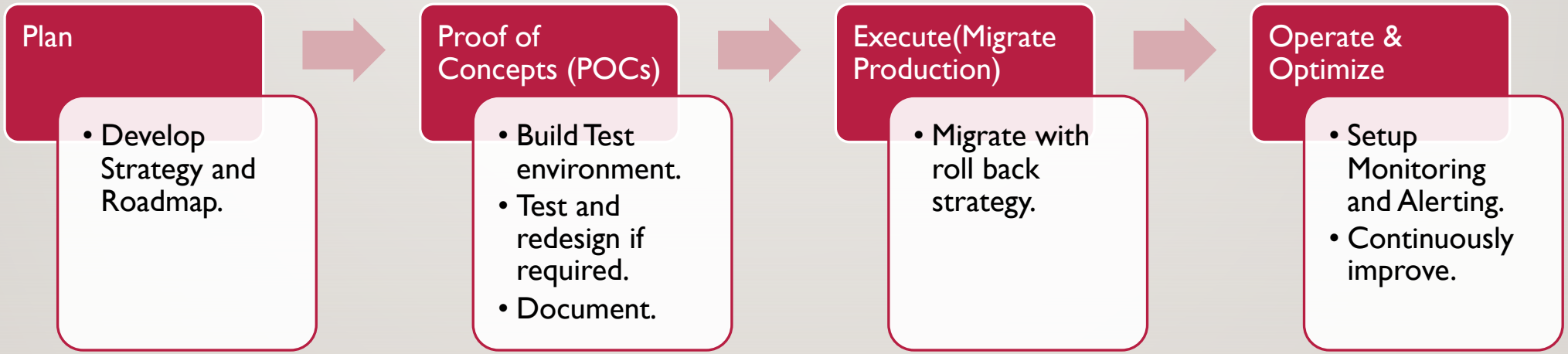


DATA MIGRATION PLAN



- Migrating to Oracle Database@Azure is similar to migrating to OCI.
- Oracle provides automated migration solutions such *Oracle Zero Downtime Migration*

CLOUD MIGRATION ROADMAP



1ST YEAR MILESTONES

Building the Test Environment.

1st Quarter

- Planning.
- Training and Upskilling.

2nd Quarter

- Dockerize the services – web, app and batch.
- Building local Kubernetes environments using helm
- Validate

3rd Quarter

- Develop Terraform scripts for infrastructure deployment and Ansible for helm charts' deployment.
- Validate.

4th Quarter

- Setup Monitoring and Alerting systems.
- Spillovers.

CONCLUSION

THANK YOU