

In-house hosting of EHIM application on Docker Swarm

Objective

Build and Deploy multiple application as micro services in Docker based environment over VMware ESXi.

Scope

- Assess requirement and provide Architectural Design
- Creating Docker based environment
- Building Application into Docker images
- Provide smart artifactory through custom git auto-versioning
- Bamboo Jobs to automate entire process
- Managing multiple environments
- Infrastructure support
- Application Monitoring

Challenges

- Convincing client to migrate to Linux
- Performance and resiliency - Design Application Load balancing

Technology

- RHEL 7.4
- Docker Echo system (Swarm, Portainer)
- Bamboo
- Sonarqube
- SolarWinds
- QuartzDesk

Benefits

- On demand scaling
- Efficient hardware usage using containers
- Easy to manage
- Enable Developers to be self-sufficient through automated jobs
- Revenue impact – Savings on Operation and hosting cost
- Customer satisfaction – Improved availability and better response times of application

Key features

- Application can be hosted in cluster, thanks to Docker Swarm
- High Performance and Availability
- All Open Source tools have been used apart from Bamboo which is an Atlassian product

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