

CI- CD Proposal

After thorough review for the existing process , our team has identified the below challenges which can be improved with the introduction of CI/CD pipelines

Challenges

- 1) Current deployment takes several takes hence leading to longer time to market
- 2) On-prem infrastructure costing more as several un-used services continues to be live
- 3) Scalability issue as its is difficult to extend the resources as per need
- 4) Longer feedback as there are very few automated tests in the existing pipeline

Proposed Solution

Proposal	Description	Benefits
Unit Testing with each check-in	It will lead to less bugs in production and less time in testing	Cost Reduction
Setup IaaS	Create the infrastructure as a code and setup at run time	Cost Reduction
Continuous Deployment	Setup CI/CD Pipeline for continuous deployment	Increase Revenue
Automated Tests	Integrate test automation with CI/CD Pipeline	Increased Revenue and cost reduction
Enable Monitoring	Add monitoring capability to the infrastructure	High quality product leading to increased revenue
Automated Rollback triggered by job failure	Quick revert changes to working code in production	Protect revenue