DEPLOYING MICRO-SERVICES APP ON AWS

Cost optimized deployment with CI/CD model
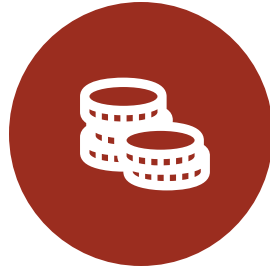
CONTENTS:

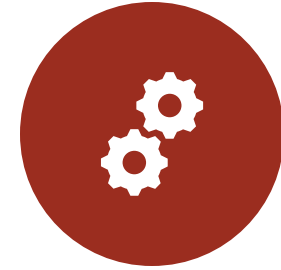WHY CI/CD?

CI/CD VALUE

DEPLOY ON AWS

COST OPTIMIZATION

WHY CI/CD?

CI/CD is a powerful engine of software development and it has untold benefits for businesses such as:

- CI/CD pipelines Automation reduces the cost !

- Deliver faster,

  The business bottom line: Expensive developer resources aren't sitting idle when a successful CI/CD pipeline is in play.

- Ensure superior code quality,

  That concept of "failing fast" means teams aren't wasting time or resources with buggy code , and devs aren't plagued with endless "fix" requests when they've moved on to other projects. ***Time is saved, money is saved.***
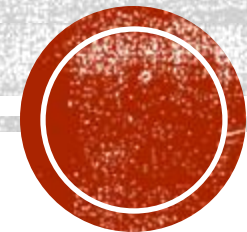
- Simplified rollback

  The ability to easily rollback code saves teams time, energy, and resources and leads to faster fixes of problem code.
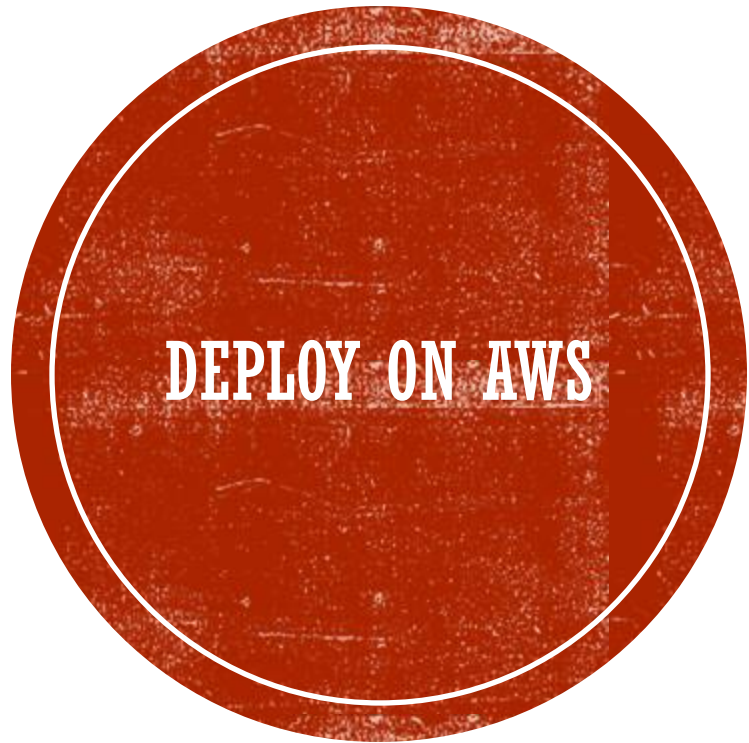
Technical Language	Value	Translation
Catch Compile Errors After Merge	Reduce Cost	Less developer time on issues from new developer code
Catch Unit Test Failures	Avoid Cost	Less bugs in production and less time in testing
Detect Security Vulnerabilities	Avoid Cost	Prevent embarrassing or costly security holes
Automate Infrastructure Creation	Avoid Cost	Less human error, Faster deployments
Automate Infrastructure Cleanup	Reduce Cost	Less infrastructure costs from unused resources
Faster and More Frequent Production Deployments	Increase Revenue	New value-generating features released more quickly
Deploy to Production Without Manual Checks	Increase Revenue	Less time to market
Automated Smoke Tests	Protect Revenue	Reduced downtime from a deploy-related crash or major bug
Automated Rollback Triggered by Job Failure	Protect Revenue	Quick undo to return production to working state

CI/CD VALUE

DEPLOY ON AWS
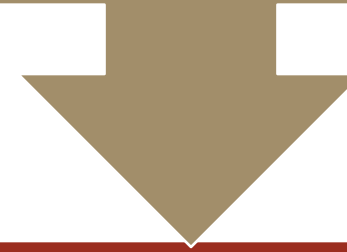
Amazon Web Services (AWS) delivers reliable, scalable, and cost-effective computing resources on which to host your applications.

Businesses can consume applications that are hosted online,

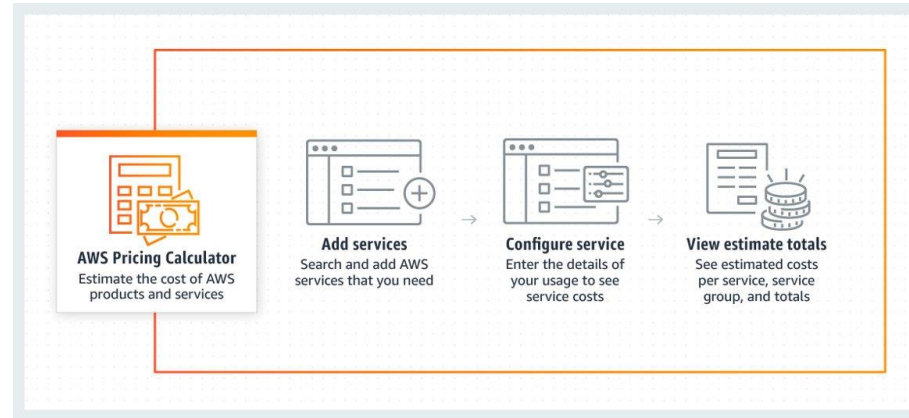| enabling them to lower their costs by paying only for what they use, | enjoy seamless and painless upgrades in functionality, | and integrate easily with their existing data and systems. |

COST OPTIMIZATION

Deploying applications on AWS cloud using CICD tools is superior in Time and Cost saving

- AWS provides a free pricing calculator that allows you to start your estimate with no commitment and explore AWS services and pricing for your architecture needs.

- Also, AWS services provide many financial management solutions. you can,

  - Organize and Report Cost and Usage based on User-Defined Methods

  - Manage Billing and Control Costs

  - Optimize Costs with Resource and Pricing Recommendations

  - Improved Planning with Flexible Forecasting and Budgeting

THANKS !

Hope it was helpful and convenient