

CI/CD – A better way to build and ship products to market

Benefits of CI/CD to achieve build and deploy automation within our
company's products

Continuous Integration

- The practice of merging all developers' working copies to a shared mainline several times a day.
- Some common CI-related phases might include:
 - Compile
 - Unit Test
 - Analysis
 - Dependency vulnerability testing
 - Store artifact

Continuous Deployment

- A software engineering approach in which the value is delivered frequently through automated deployments.
- Some common CD-related phases might include:
 1. - Creating and configuring infrastructure
 2. - Promoting production
 3. - Smoke Testing
 4. - Rollbacks

Benefits of CI/CD to our Business

- Automate Infrastructure Creation:

This will help to avoid costs by providing less human error, which means faster deployments

- Faster and More Frequent Production Deployments:

This would help to increase revenue by releasing new value-generating features more quickly

- Automated Smoke Tests:

This would help protect revenue by reducing downtime from a deploy-related crash or a major bug

- Detect Security Vulnerabilities:

This would help to avoid costs by preventing embarrassing or costly security holes.

- Deploy to Production Without Manual Checks:

This would help to increase revenue by making features take less time to market.

- Detect Security Vulnerabilities:

This would help to avoid costs by preventing embarrassing or costly security holes.