

Fundamentals and Benefits of CI/CD

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Benefits of CI/CD

- 1) Reduce Cost
- 2) Avoid Cost
- 3) Increase Revenue
- 4) Protect Revenue

Reduce Cost:

- Less developer time on issues from new developers code
- Less Infrastructure costs from unused resources

Avoid Cost:

- Less bugs in production and less time in testing
- Prevent Embarrassing or costly security holes
- Less human error, Faster deployment

Increase Revenue:

- New value-generating features released more quickly
- Less time to market

Protect revenue

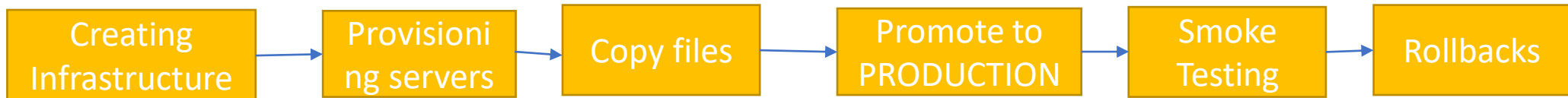
- Reduced downtime from a deploy related crash or major bug
- Quick undo to return protection to working state

Fundamentals of CI/CD

- **Continuous Integration:** Merging all developers working copies to a shared mainline several times a day



- **Continuous Deployment:** A value is delivered frequently through automated deployments



Fundamentals of CI/CD

- **Continuous Delivery:**

Combination of Continuous Integration and continuous deployment.

An Engineering Practice in which teams produce and release values in short cycle.

