

# Continues Integration Continues Delivery

A Business Look

# Continues Integration

- Often times developers are working in silos and everyone want to generate their own build thus it ends up having inconsistent code and failed builds.
- CI is an engineering practice where the code from all developers continues merge into main code repository every time the declares 'its done'.
- This helps identifying the code errors or bugs during building the code and thus clearly identifies the responsible to fix it in clean way.
- CI has three conceptual stage : Build, Test & Analyze

# Continues Delivery (CD)

- CD has two meanings. Continues Delivery & Continues Deployment.
- Continues Delivery: means that in shorter cycles business can earn value in any form.
- Continues Deployment: means teams are frequently deploying their code in an automated way. In concept this is one step behind Continues Delivery where actually code is promoted to production.

# Business benefits of CI CD pipelines

- **Create Revenue**

By having more automated & well tested code in production reduces time to market thus enabling business to create more revenue.

- **Protect Revenue**

since there is a automatic roll back mechanism in place incase of any failed deployment which could cause loss in revenue can be avoided.

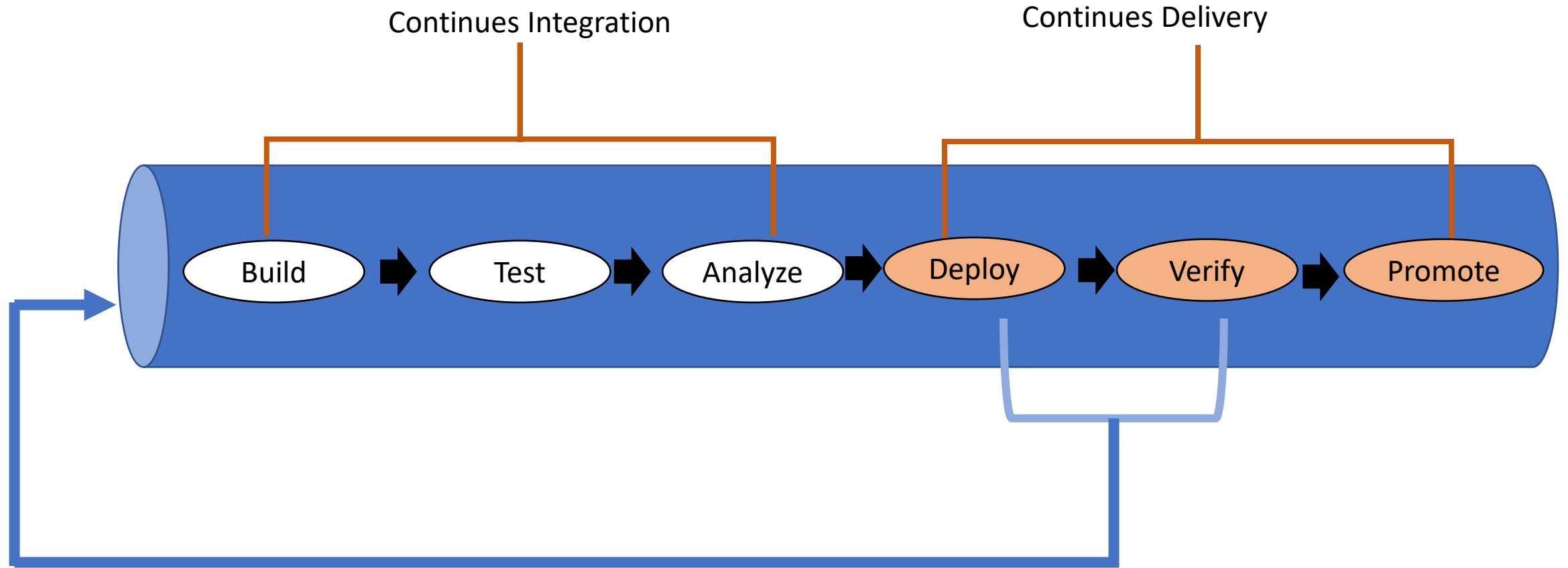
- **Control Costs**

due to code analysis (devsecops) or test automation costly security loopholes or vulnerabilities can be avoided which could control the cost otherwise incurred.

- **Reduce cost**

Using IAC or general cleanup practices , unused resources can be cleaned up to reduce cost. This also reduces time to fix compile time errors produced by another developer.

# CI CD Pipeline



Revert or Roll back if deployment fails or verification fails