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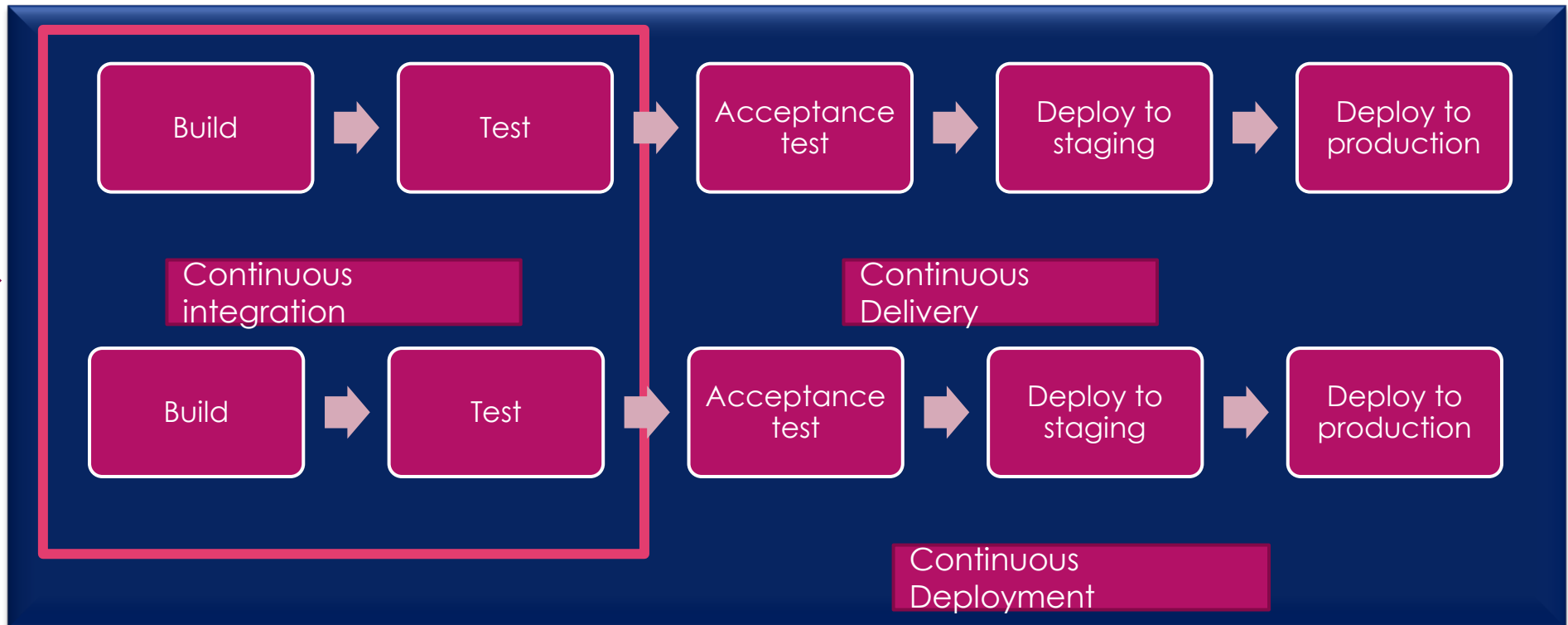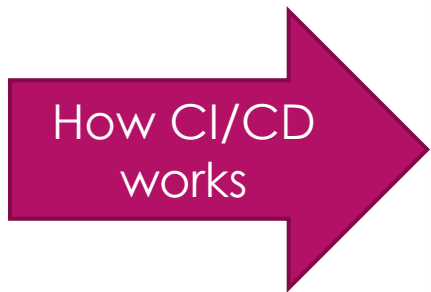
CI/CD: A breakdown of Fundamentals & Benefits

A BETTER WAY FOR ORGANIZATION TO SAVE COST AND GUARANTEE FASTER DELIVERY

What IS CI/CD

▶ Continuous integration (CI) is a development practice that integrates codes into a repository. Each integration is verified by an automated build and text

▶ Continuous Delivery (CD) is an extension of CI that aims to reduce development time between writing code and using it in production

How CI/CD works

Build → Test → Acceptance test → Deploy to staging → Deploy to production

Continuous integration

Continuous Delivery

Build → Test → Acceptance test → Deploy to staging → Deploy to production

Continuous Deployment

Why use CI/CD

Why Use Continuous integration?

1) Merge code Faster.
2) Catch compile errors after merge.
3) Reduces code conflicts.

Why Use Continuous deployment?

1) Automate deployment to production and eliminate manual intervention.
2) Automated rollbacks in case of failure.
3) Deploy to production faster and frequently.

Benefits of CI to Your Organization

Protect revenue

Reduce cost

Cost Avoidance at some cases.

Increase in revenue.

Benefits of CD to Your Organization

Increase in market share

Faster feature delivery for customers

Action	Value
New value-generating features released	More quickly Increase Revenue
Less human error, Faster deployments	Cost Avoidance
Less time to market	Increase Revenue
Quick undo to return production to working state	Protect Revenue