

The background is a dark navy blue. In the top-left corner, there are two overlapping geometric shapes: a blue parallelogram and a light green parallelogram. In the top-right corner, there is a grey, 3D-rendered circuit board pattern. In the bottom-left corner, there is a circular inset showing a detailed, high-resolution image of a printed circuit board (PCB) with various electronic components.

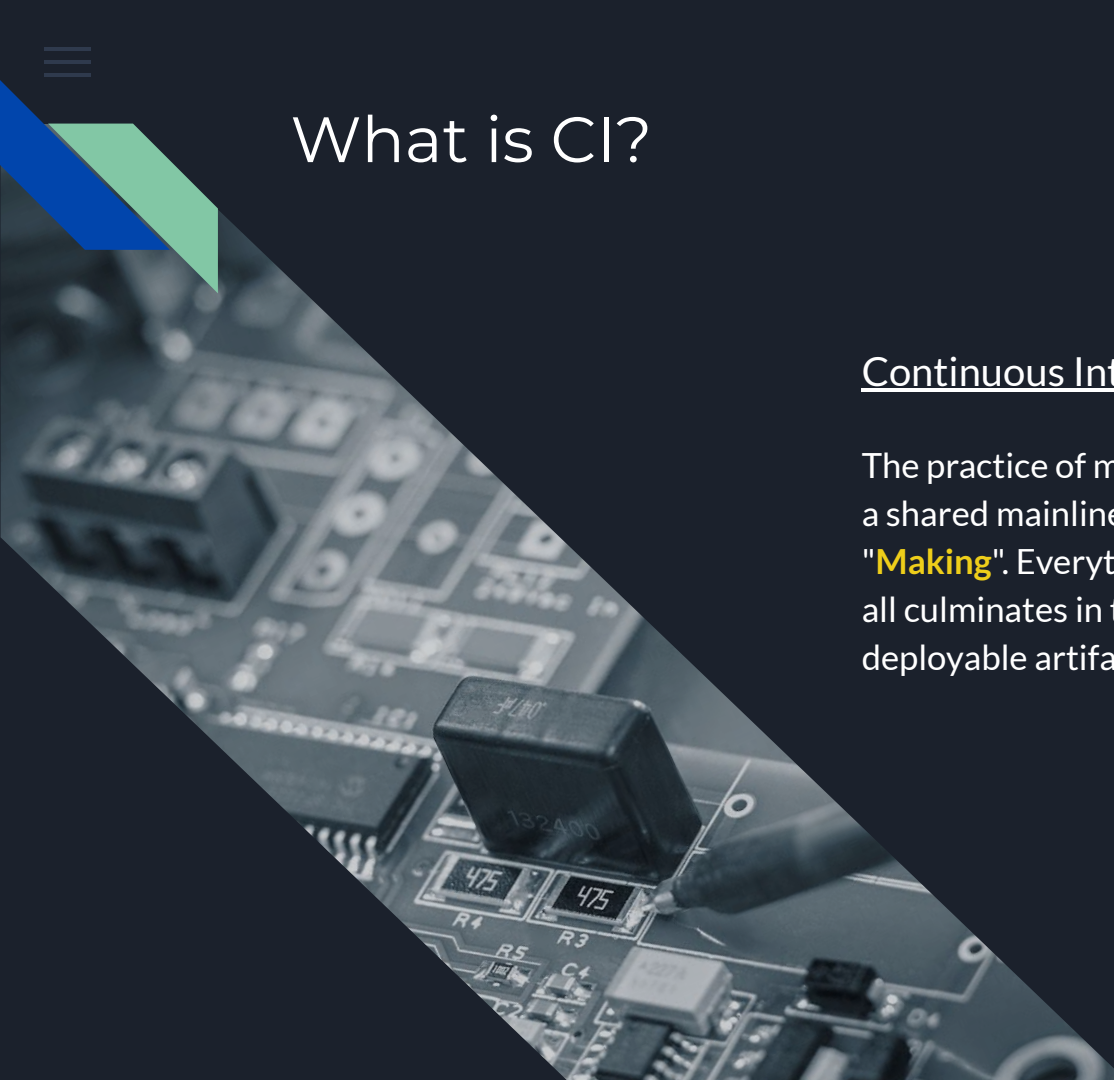
# Benefits of CI/CD **Udapeople**



# What is CI?

## Continuous Integration

The practice of merging all developers' working copies to a shared mainline several times a day. It's the process of "Making". Everything related to the **code** fits here, and it all culminates in the ultimate goal of CI: a high quality, deployable artifact!






# What is CD?

## Continuous Deployment

A software engineering approach in which the value is delivered frequently through automated deployments. Everything related to **deploying the artifact** fits here. It's the process of "**Moving**" the artifact from the shelf to the spotlight.





# Benefits of CI/CD

## Avoid cost

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

## Protect Revenue

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



# Benefits of CI/CD

## Reduce Cost

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

## Increase Revenue

- New value-generating features released more quickly
- Less time to market and perform manual checks