



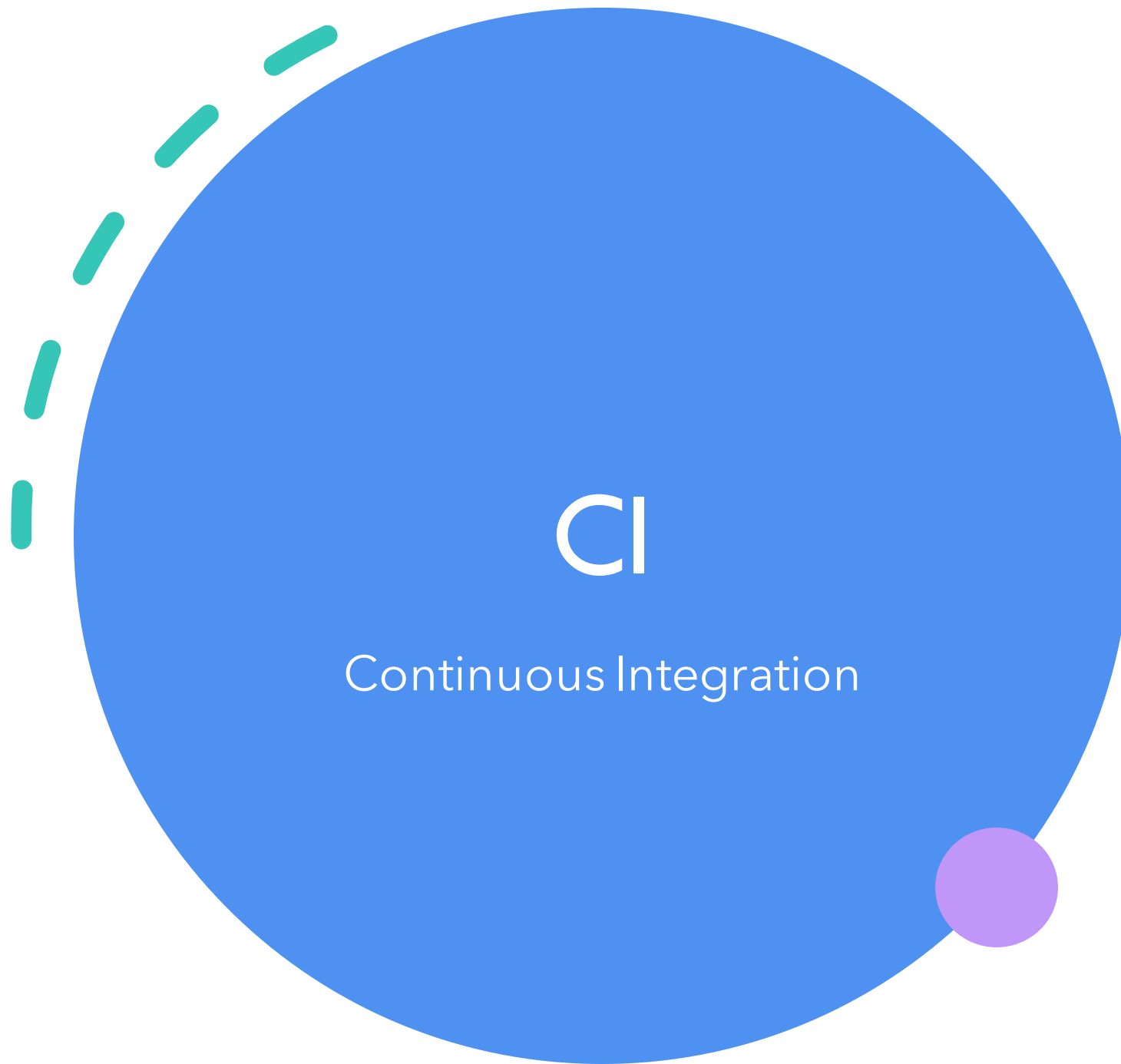
CI/CD

Automation Era



Agenda

Continuous Integration
Continuous Deployment
CI/CD benefits



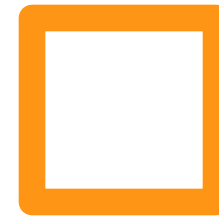
Continuous Integration

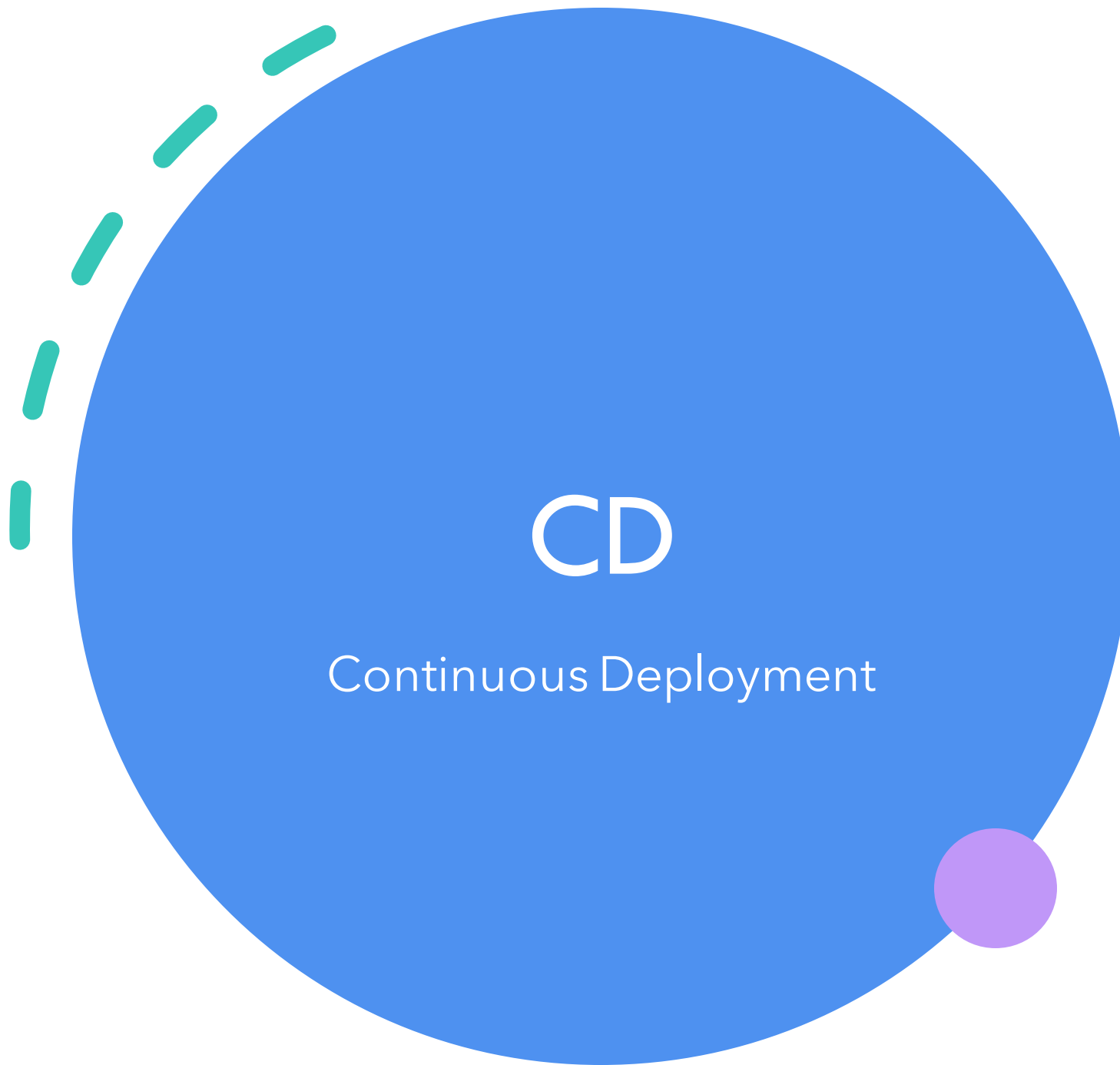
Collecting workflow several times a day.

It's the process of "**Making**"

Everything related to the code fits here,
a high quality, deployable artifact:

- Compile
- Unit Test
- Static Analysis
- Dependency vulnerability testing
- Store artifact





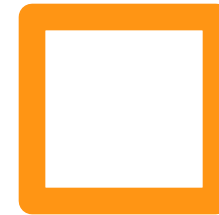
Continuous Deployment

The value is delivered frequently through automated deployments

It's the process of "**Moving**" the artifact from the shelf to the spotlight

Everything related to deploying the artifact fits here:

- Creating infrastructure
- Provisioning servers
- Copying files
- Promoting to production
- Smoke Testing (aka Verify)
- Rollbacks



A large blue circle containing the text "CI/CD" and "Benefits". To the left of the circle, there is a dashed teal arc. At the bottom right of the circle, there is a small solid purple circle.

CI/CD

Benefits

CI/CD Benefits

Cost

- Avoid cost:
 - Less bugs in production and less time in testing
 - Prevent embarrassing or costly security holes
 - Less human error, Faster deployments
- Reduce cost:
 - Less developer time on issues from new developer code
 - Less infrastructure costs from unused resources

Revenue

- 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 production to working state



Thank you

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<https://github.com/minamiladfouad/EGFWD-CloudDevOps-P3>