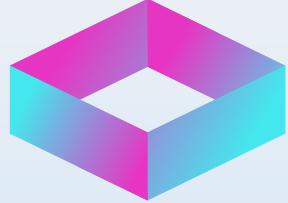


Created by  
Team

# CI/CD



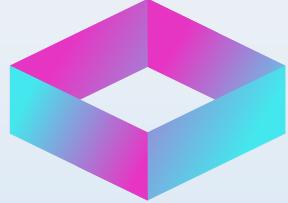


# What is Continuous Integration?



Continuous integration (CI) is the practice of automating the integration of code changes from multiple contributors into a single software project. It's a primary DevOps best practice, allowing developers to frequently merge code changes into a central repository where builds and tests then run. Automated tools are used to assert the new code's correctness before integration.





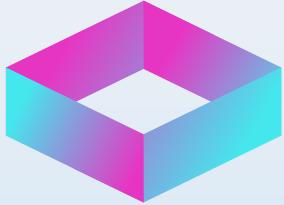
# What is Continuous Delivery?



Continuous delivery (CD) picks up where continuous integration is over. While CI is the process to build and test automatically, CD deploys all code changes to the testing or staging environment in the build.

CD enables builds to be released to the production environment when needed. Allowing the team to deploy on its own, the CD effectively reduces time on the market.





# Pipeline



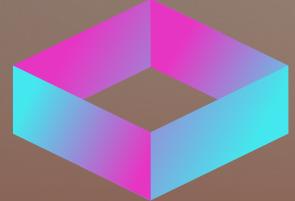
- Commit
- Build
- Automate tests
- Deploy



When the developers make a change, they commit the change to the repository.

# Commit





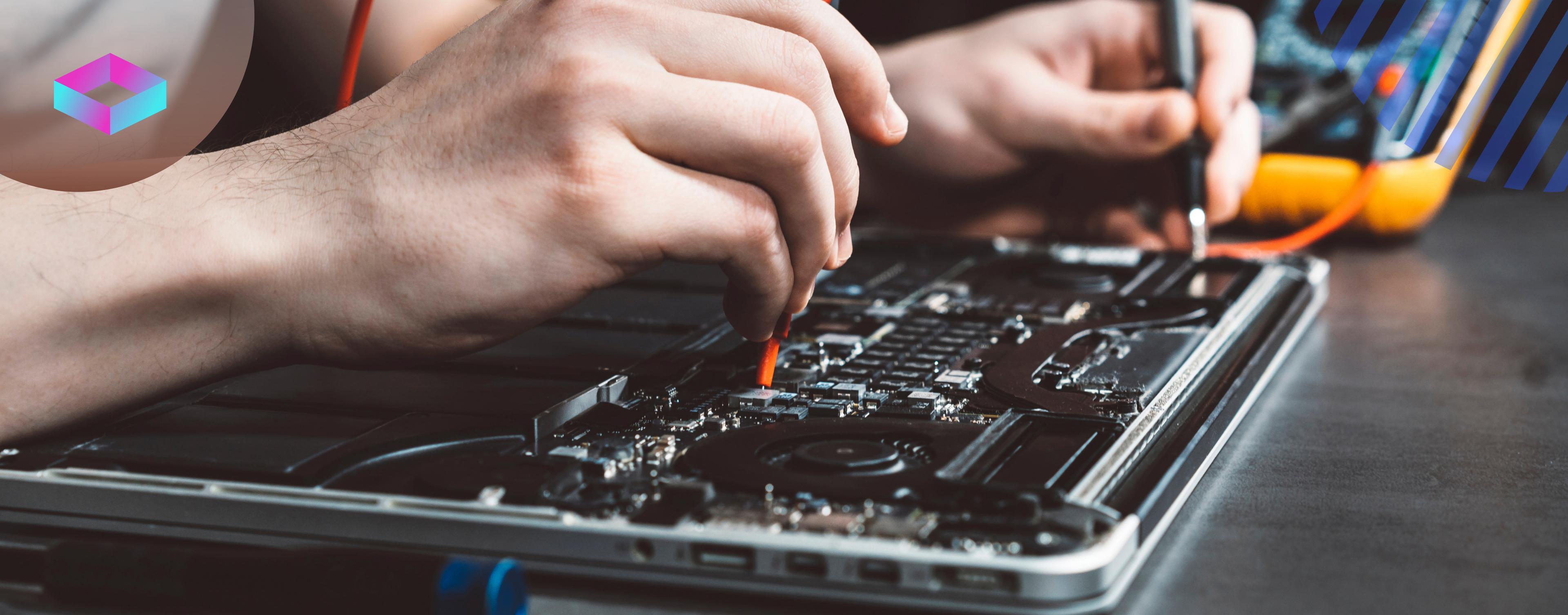
```
IFormatProvider is not used; the default culture is [en-US]:  
    'No' format string:          11876.54  
    'N5' format string:         11.876.54000  
    'E' format string:          1.187654E+004  
    'E5' format string:         1.18765E+004  
  
A CultureInfo object for [nl-NL] is used for the IFormatProvider:  
    'No' format string:          11876.54  
    'N5' format string:         11.876.54000  
    'E' format string:          1.187654E+004  
  
A NumberFormatInfo object with digit group size = 2 and  
digit separator = ',' is used for the IFormatProvider:  
    'N' format string:          1,18,76,54  
    'E' format string:          1,187654E+004  
Press any key to continue . . .
```



The source code in the repository is integrated into the build.

# Build





Automated tests are being run against the build. Test automation is a key component of any CI / CD pipeline

# Automate Tests





The built version will be delivered  
to production

# Deploy





# Conclusion



Two of DevOps' recommended practises for managing misalignment between developers and the operational team are continuous integration and continuous delivery. Developers may deploy modifications and new features more frequently using automation, while operations teams have improved overall stability