

UDA-People Application

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Date: 3rd December 2021

Agenda

- Old fashion delivery
- Challenges
- What's Continuous Delivery??!
- Why Continuous Delivery?!
- Conclusion

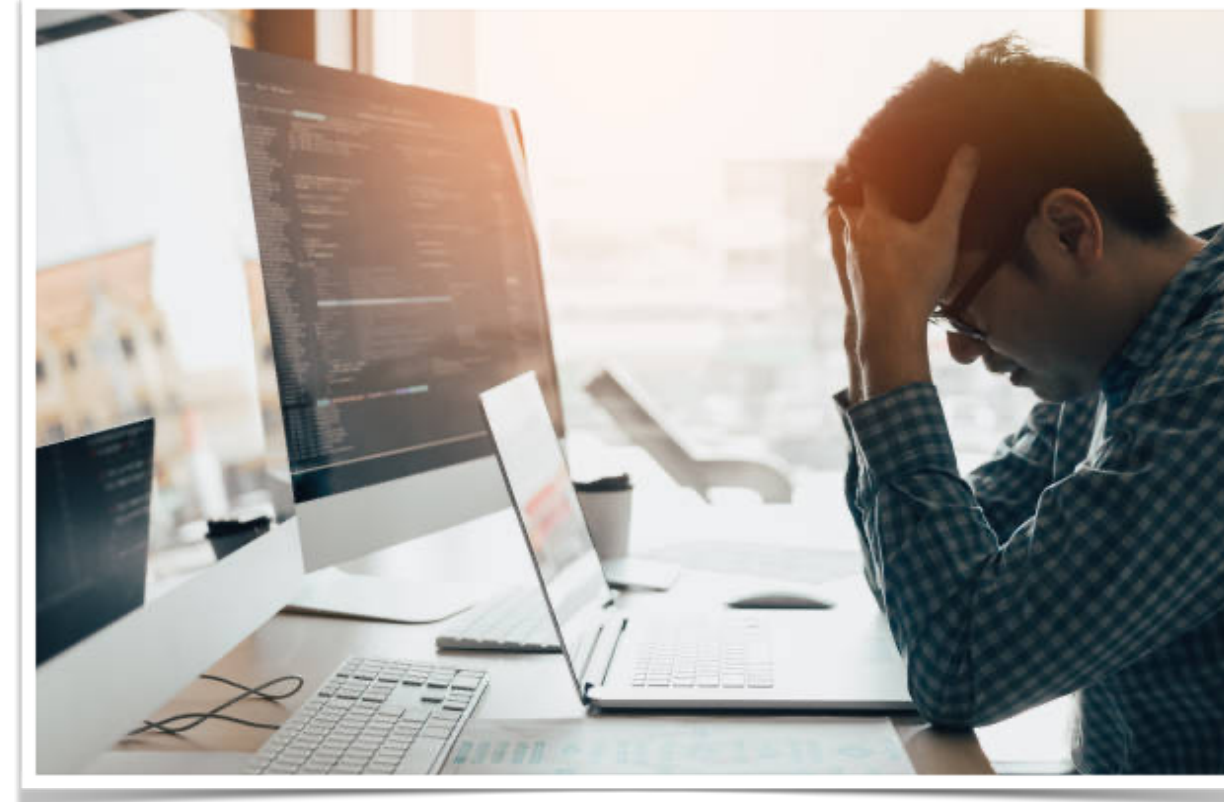
Old fashion Delivery

- Source code is being built and tested locally.
- Artifacts are being deployed on a testing environment.
- Testing team test the application.
- Developers to fix, set new features, and redeploy on testing environment one time or more.
- Final artifacts are prepared, and then change requests are created for the production rollout.
- A night activity is planned to deploy the artifact by the “operations team”.
- Babysitting process for the next two days.
- Post-production validation begin to confirm that the change is done successfully.



Challenges


- Increased time to market
 - Developers might miss the latest code version and apply changes on outdated ones.
 - Preparing artifacts and deploying it manually on testing environment.
 - Outputs should be tested on both testing and production environments.
- Not all issues within the code are always detected.
- On facing issues on production, the action will be roll backed.



What's the continuous delivery?

- Practice in which teams produce and release value in short cycles
- Continuous integration and continuous delivery
- Continuous integration is the practice of merging developers' copies to a shared mainline several times a day.
- Continuous deployment is the practice in which the value is delivered frequently through automated deployments.

Why continuous delivery

- Catch compile errors after merge which
 - Saves developers' time in catching errors.
 - Catch unit test failures and code vulnerabilities
 - Avoid the costly security holes.
 - Infrastructure creation and cleanup automation
 - Enhance time to market
 - Eliminates human error
 - Increase revenue.
 - Faster deployment and rolling out without manual checks
 - Enables frequent deployments
 - Decrease time to market
 - Increase revenue.
 - Smoke test automation, and fast time to failure
 - Increases accountability and transparency.
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Conclusion

- All challenges created by the current architecture can be resolved easily by applying the continuous delivery concept.
- Continuous delivery offers a great improvements to the process
 - Decreasing the time to market
 - Making the best utilization and consumption of the company's resources and assets
 - Great cost reduction
 - Increase company's revenue