CI/CD - OUR LAUNCHPAD TO AN INCREASE IN REVENUE

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The Problem

ELAPSED DEADLINES

The constant need for bug fixes and new features produces an extensive backlog to be addressed at a time. The team is constantly overwhelmed when there is a need to address the backlogs and deploy the new changes within a tight deadline.

LOW CONFIDENCE

Missed deadlines cause tensions within the organization. There is a loss of trust and confidence between members of the development and business teams.

LACK OF ACCOUNTABILITY

Under the current system, there is a lack of accountability when things go wrong. There is no way to pinpoint where things go wrong, so we resort to a blame game.

LONG WAIT FOR NEW FEATURES

All these factors mean there is less value being delivered to our valued clients in the form of new features. Too much time is spent going back to solve issues caused in the codebase!

Value Being Lost

Innovation

Less time is available to innovate and improve products to add value

Growth Opportunity

There are constant lags, which cause stagnation in business growth

Business Relationships

Clients are unsatisfied and give negative reviews and feedback

Unmotivated Talent

Talent end up losing motivation in their ability to thrive, deliver and grow

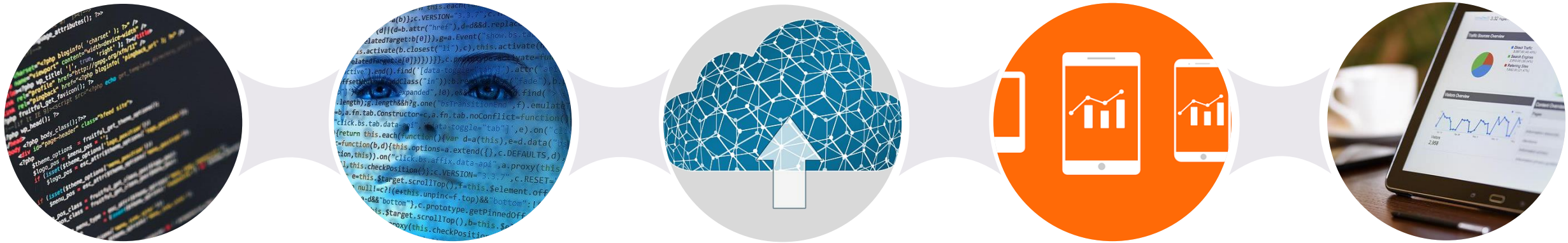
Efficiency & Productivity

Time is money and too much of it is spent on activities that don't positively affect the bottom line

The Solution - CI/CD

The solution we propose is Continuous Integration and Continuous Deployment (CI/CD). These two concepts form the mindset and philosophy of Continuous Delivery. Continuous Integration (CI) automatically ensures aims to consistency and correctness of a software's codebase across multiple contributors. Continuous Deployment (CD) follows CI and constitutes the final steps taken to ensure that the latest version of the software is ready to be promoted to production for use.

CI/CD is normally referred to as a 'pipeline' because the steps are precisely defined to automatically follow each other in a reliable manner. During the process, all necessary checks are done to pinpoint failed tests as fast as possible to ensure that only high-quality, bug-free code ends up being deployed to production.



BUILD & TEST ANALYZE DEPLOY VERIFY PROMOTE

Value to be Gained

QUICKER ROLLOUT OF NEW FEATURES

The automation aspect gives developers more time to work on new features that will maintain existing customers and attract new ones

CUSTOMER SATISFACTION

Customers will come to know that our product is always up and running to help them fulfill their needs

REDUCTION IN COSTS

Faulty deployments and bugs discovered in production, causing downtime and fixes will be a thing of the past. Repair bills will therefore be reduced.

INCREASED REVENUE

Higher customer satisfaction and positive reviews will increase demand for our products and positively affect revenues.

INCREASED SPEED & PRODUCTIVITY

Operations will completely be transformed, ensuring that teams spend their time more productively and are able to upskill and grow

BETTER TEAM TRUST & CONFIDENCE

Stakeholders become more confident in the development process and more trust is built

Conclusions

THE WAY FORWARD FROM HERE?

Baby Steps

We can start small by automating only a section of our production workflow

Open Source

We can use some free and open-source tools to sample what works and what doesn't before diving fully in.

Evaluate

We can evaluate the effect CI/CD has on our business and hopefully be on our way to solving those issues that are preventing us from reaching the next level.