# UdaPeople – for the People

AS BUSINESS PROPOSAL TO DEVELOP A REVOLUTIONARY APP IN HUMAN RESOURCES TO HELP SMALL BUSINESSES CARE BETTER FOR THEIR MOST VALUABLE RESOURCE: THEIR PEOPLE

As building an app like UdaPeople can be a time-consuming process, using tools to expedite the process will be the key.

As this processes involves an intensive and effective communication, collaboration and integration from all key stakeholders (Developers, Operations and Management).
This can ultimately be achieved by adopting the latest industry software development practices - **DevOps Automated practices**.

# Why DevOps?

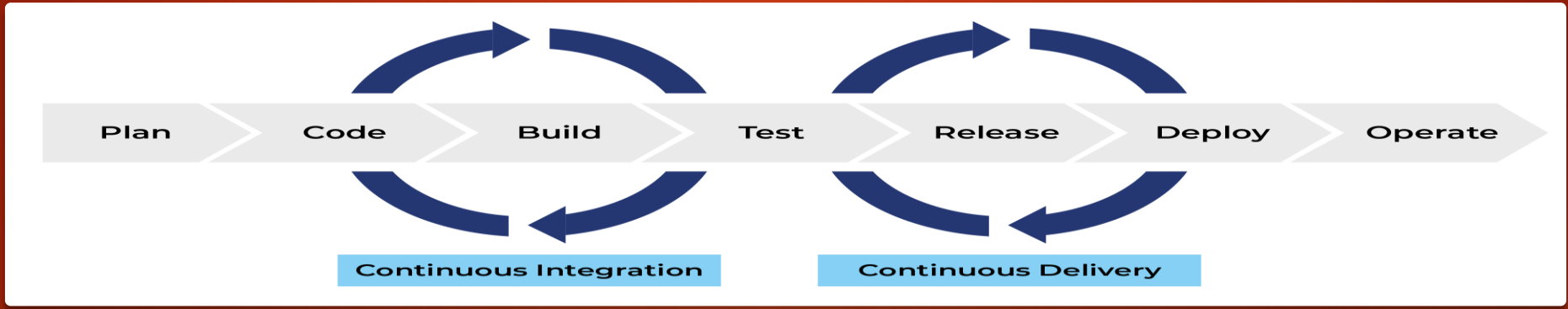
It is essential to note that collaboration and communication are key, as businesses like ours will not be able to accelerate by depending on an out-of-date software deployment process.

The reason why Automation is the need of the hour for UdaPeople. Not only does it saves time but also requires minimal human intervention, which, in effect, reduces the chances of system failures - **REDUCE COST**

The Automated processes will reduce the effort of the development and deployment teams considerably, which invariably means less time to market - **INCREASE REVENUE**

**DevOps** Automation is broadly divided into these concepts - **Continuous Integration (CI) & Continuous Delivery/Deployment (CD**)

# CI/CD - How Does It Work?




By leveraging on Cloud-Based software products, we can Achieve, Build, and Deploy UdaPeople.

**Continuous Integration (CI)** attempts to increase the quality of the code by testing, reviewing, and running test cases automatically. This is carried out at regular intervals each day, all with the purpose of detecting integration bugs. This facilities a more collaborative approach when enhancing code quality and provides failure and success reports of the code in real time as well.

**Continuous Delivery/Deployment (CD)** aims at minimizing the visibly weak areas during the deployment or release processes and involves automation at high level, where a deployment or a build is automated when a code undergoes a major change. Here, the implementation entails automating the steps for software deployment so that a code can be released securely and at any time.

# Business Benefits of CI/CD

### Reduce Cost

- Less developer time on issues from new developer code - **Catch  Errors**
- Less infrastructure costs from unused resources - **Automate Infrastructure Cleanup**

### Avoid Cost

- Less bugs in production and less time in testing - **Catch Test Failures**
- Prevent embarrassing or costly security holes - **Detect Security Issues**
- Less human error, Faster deployments - **Automate Infrastructure Cleanup**

**Automated pipelines reduce manual intervention and lead to eventual savings since resources are more expensive than tools. The upfront investment can cause concern; however, well designed automated pipelines enable us to innovate better and faster to meet our customer's needs.**

### Increase Revenue

- New value-generating features released more quickly - **Back-to-back Releases and More Frequent Software Updates**
- Less time to market - **Deliver software on time**

### Protect Revenue

- Reduced downtime from a deploy-related crash or major bug - **Automated Testing and Shared Visibility**
- Quick undo to return production to working state - **Automated Rollback and Quicker Resolutions**

**With the automated mechanism, our team will be able to receive quicker test results  for the UdaPeople app build and see the product faster and at any time, whilst achieving reduced time to market as the app will be released before market changes or user's ever-rising demands.**

# Conclusion - Way To Go

As CI/CD as shown it can be an integral part of our software building and deployment. Once the CI/CD process stabilizes in our organization, it can lead to big advantages, such as reducing costs, increasing ROI and End-user involvement and feedback during continuous development can lead to usability improvements.