

Bringing CI/CD to UdaPeople

UdaPeople Pain Points

Minimal information-sharing

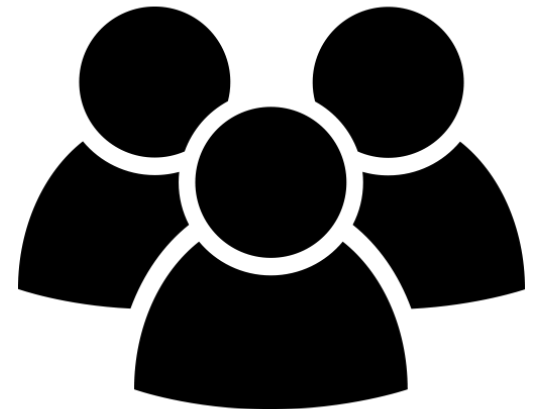
- Overly reliant upon a small # of developers who understand entire process
- Increased pressure/stress on key team members

Software releases are largely manual

- Errors delay deployment
- Delays capitulate subsequent push-backs of schedule (circular)

Lack of time + fear of missing deadlines

- Leads to a decline in code quality
- Reduces test quality and inhibits full test coverage



Solutions Approach for UdaPeople

Meet business objectives

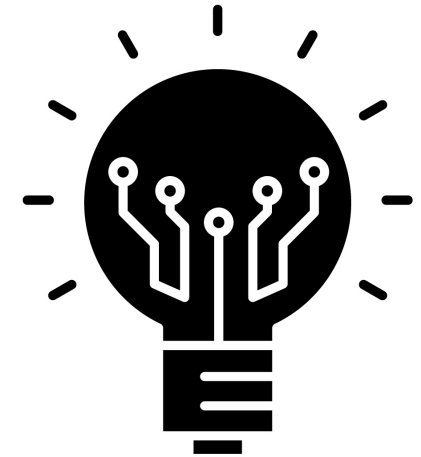
- UdaPeople is looking to modernize towards the cloud while ensuring functionality of the HR application
- Understand/improve the costs of moving all current applications to AWS

Meet industry standards

- Ensure best practices
- Accelerate service delivery

Innovative & robust solutions

- Use AWS cloud native services to support initial migration
- Introduce secure automation with the help of UdaPeople IT & devs, ensuring new policies & procedures are understood



CI/CD Overview

Continuous integration

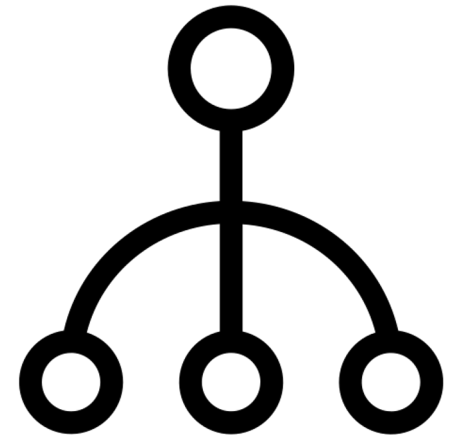
- Merge “dev” branches to “main” frequently
- Test automation is key

Continuous delivery

- Changes to software are released quickly
- Fluid and dynamic release to clients/users

Continuous deployment

- Automate deployment with minimal human interaction
- Includes smoke testing, production deployment, rollbacks



Setting Up Long-Term Success

Initial Costs

- Upfront expenditure is necessary to transition into an automated process
- Software team will need to familiarize with new procedure (learning time)
- CI/CD, once implemented, will require continual maintenance and improvement

Investment Gains

- Reduce outage time, thus reducing user downtime
- Decreases overall time to market
- More time put towards actual development
- Focusing on adding features allows innovative growth
- Improves consistency of business

