U daPeople CI/CD

Agenda

1. What is CI and CD.

2. Business benefits of incorporating CI/CD in the organization.

1. Continuous integration

   When multiple developers are working on same project we would end up multiple working copies. All these copies of the code are integrated into a single mainline. This process is called Continuous Integration. Some command CI-related might include

   - Compile
   - Unit Test
   - Static Analysis
   - Dependency vulnerability testing
   - Store artifact

2. Continuous Deployment

   In this fast paced world speed of providing a product is everything. The Continous deployment helps the product move from shelve to spot light faster than traditional deployments. Some of the common CD phases might be.

   - Creating infrastructure
   - Provisioning servers
   - Copying files
   - Promoting to production
   - Smoke Testing (aka Verify)
   - Rollbacks

3. Business Benefits of CI/CD

    a. We no longer need to rely on humans to perform the job of gatekeeper.

    b. Reduce the gaps between different teams and avoid any miscommunication between them (developers and operations teams)

    c. We would have transparency on tools and versions of the code.

        1. We would know the if the tests has passed.

        2. We would know the current state of production.

        3. Control to define the process in the production.

        4. Clarity on above items provides the confidence to move into production with confidence.

    d. Continuous deployment enables us to deliver things faster and provide feedback sooner.