BENEFIT OF CI/CD

UdaPeople

WHAT IS CI/CD

Continuous Integration

The practice of frequently merging code changes from multiple developers into a shared repository, and automatically building and testing the software to detect any integration issues early in the development process. This helps to catch and fix bugs, conflicts, and other issues quickly, reducing the risk of introducing errors into the final product.

WHAT IS CI/CD

Continuous Deployment

It involves automatically deploying the successfully built and tested software changes to production or a production-like environment, making them available for end-users. This allows for rapid and frequent releases, enabling software teams to deliver new features, bug fixes, and improvements more quickly and reliably.

WHY CI/CD IS IMPORTANT

Protecting Revenue

CI/CD helps deliver reliable software with fewer bugs and faster updates. This can reduce downtime, minimize disruptions, and prevent revenue loss due to software failures, customer complaints, or negative user experiences. Reliable software also fosters customer trust and loyalty, leading to repeat business and positive word-of-mouth referrals, which can protect and potentially increase revenue.

WHY CI/CD IS IMPORTANT

Increasing Revenue

Faster time to market with CI/CD allows businesses to release new features, bug fixes, and improvements more quickly, meeting customer demands faster and gaining a competitive edge. This can result in increased customer acquisition, retention, and revenue growth. Additionally, satisfied customers from reliable software delivered through CI/CD are more likely to become loyal customers, leading to repeat business and increased revenue.

WHY CI/CD IS IMPORTANT

Reducing Costs

Early bug detection and automated testing in CI/CD can prevent issues from reaching production and reduce the cost of fixing them later in the development process. Automation of repetitive tasks in CI/CD also improves efficiency, reduces manual effort, and lowers labor costs. Moreover, by catching and resolving integration issues early, CI/CD minimizes the cost of rework, retesting, and production failures, resulting in overall cost savings.

WHY CI/CD IS IMPORTANT

Avoiding Costs

CI/CD includes automated security testing, vulnerability scanning, and other security measures, which can help identify and fix security vulnerabilities early, avoiding the potential costs of data breaches, lawsuits, fines, and reputational damage. CI/CD can also prevent revenue loss and customer dissatisfaction caused by software failures, delays, or disruptions, avoiding costs associated with customer compensation, refunds, or lost business opportunities.