

Meeting Notes

#deployment

#meeting

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#team

Subject

Topic : Meeting with Sandbox regarding Deployment

Date : Thursday, 11th October, 2024

Overview of Deployment

- Deployment is the process of moving our application from a development or staging environment into production, becoming accessible to users.
- The high-level flow is as follows:
 - **Development:**
 - **Coding and Testing :** Developers write code and run tests locally.
 - **Continuous Integration (CI):**
 - **Automated Testing:** Every change (commit) is automatically tested to ensure it doesn't break the application
 - **Continuous Deployment (CD):**
 - **Build Process:** The application is built into a deployable state, often as Docker images.
 - **Automated Deployment:** The built application is deployed to a staging environment for further testing.
 - **Approval Process:** After passing tests in the staging environment, the deployment is approved and pushed to production
 - **Production:**
 - **Deployment:** The application is deployed to a production environment (cloud servers, on-premises servers, or managed services).
 - **Monitoring:** Cloud provider-specific monitoring tools are used to track application performance and errors.
 - **Maintenance and Monitoring:**
 - **Logging:** Real-time logging of application behavior to troubleshoot issues.
 - **Alerts:** Set up alerts to notify the team of any critical issues
 - **Regular Updates:** Apply security patches and updates regularly to maintain the integrity and security of application

Streamlining Production

- **Automation:**
 - **CI/CD Pipelines:** Automate the build, test, and deployment processes using CI/CD tools.
 - **Automated Tests:** Implement unit tests, integration tests, and end-to-end tests to ensure the code is working as expected before it reaches production.
- **Containerization:**
 - **Docker:** allow for the application to run consistently across different environments.
 - **Kubernetes:** manage containerized applications, ensuring scalability and reliability.
- **Logging:** Implement centralized logging using tools like ELK stack (Elasticsearch, Logstash, Kibana) or cloud-specific logging services.

Our team currently does not have any inquiries regarding deployment.