Real-Time DevOps Corporate Workflow

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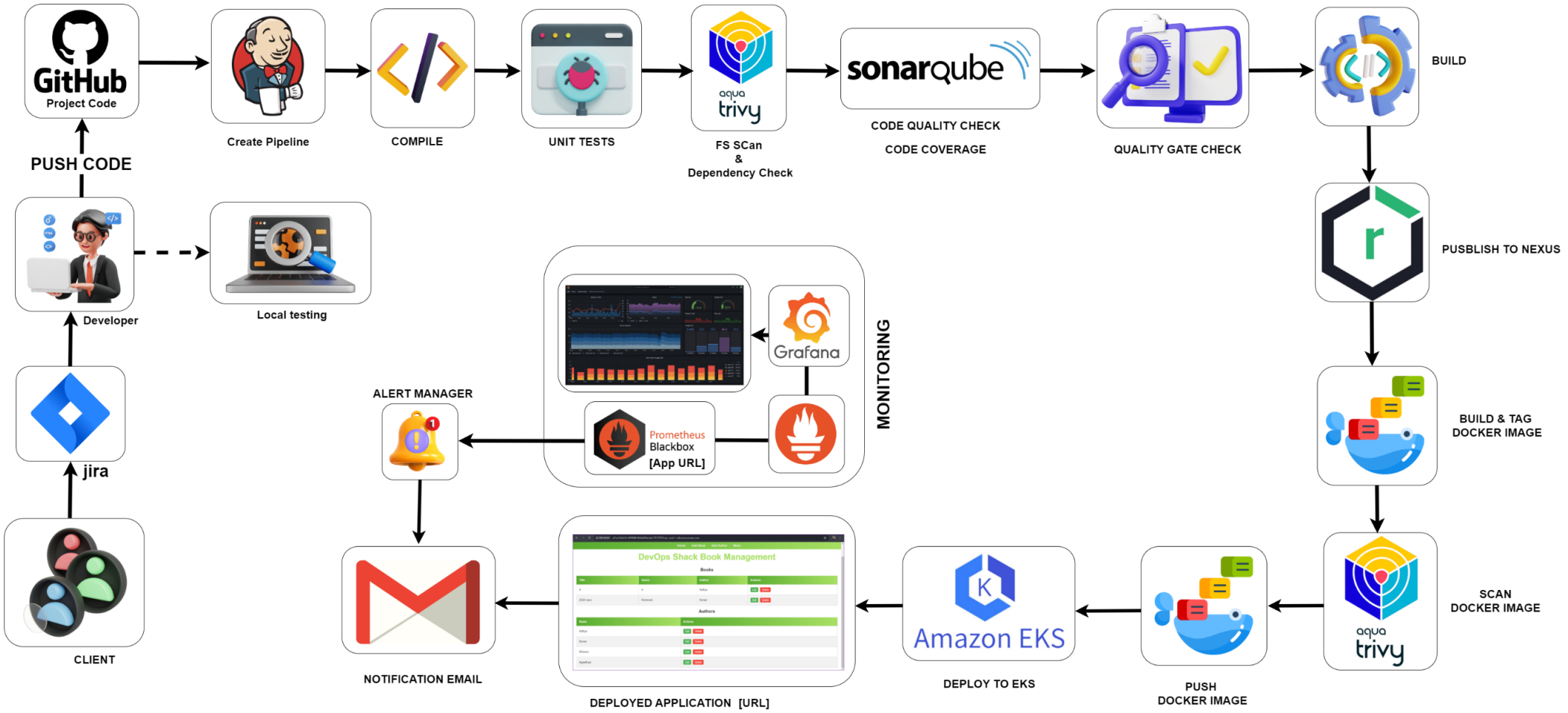

In today's fast-paced tech landscape, having an efficient and secure DevOps workflow is crucial for delivering high-quality software at speed. Here's an insight into a real-time DevOps corporate workflow, showcasing how various tools and processes integrate to ensure seamless development, deployment, and monitoring.

1. **Infrastructure as Code (IaC)**:
    - **GitHub** for version control of IaC code.
    - **Terraform** to provision infrastructure on **Amazon EKS**.
    - **Ansible** for configuration management across Linux servers.
2. **CI/CD Pipeline**:
    - **GitHub** for project code repository.
    - **Jenkins** to automate builds and deployments.
    - **Code Scanning** tools like **Trivy** for vulnerability scanning.
    - **SonarQube** for code quality checks.
    - **Automated Testing** to ensure robust software releases.
3. **Continuous Monitoring**:
    - **Prometheus** and **Grafana** for real-time application monitoring.
    - **Alert Manager** to notify the team about any issues.
    - **Blackbox Exporter** to monitor app URLs.
4. **Security and Compliance**:
    - **Trivy** and other security tools to maintain secure code throughout the pipeline.
    - Regular code reviews and compliance checks integrated into the CI/CD process.
5. **Collaboration and Communication**:
    - **Jira** for issue tracking and project management.
    - **Confluence** for documentation.
    - **Email Notifications** to keep the team informed about deployment statuses and issues.
6. **Deployment Management**:

- Real-time dashboards for **DevOps Check** and **Back Management**.
- Deployment to **Amazon EKS** for scalable and managed Kubernetes services.

This integrated workflow not only accelerates the development cycle but also ensures that the software is secure, reliable, and efficiently monitored in real-time.