

1. Slack Notification Plugin

- **Description:** Integrates Jenkins with Slack to send build notifications.
- **Features:**
 - Customizable messages for build success, failure, or other events.
 - Supports rich formatting (e.g., links, emojis).
 - Configurable notifications for specific channels or users.
- **Use Case:** Keep teams updated on build statuses in real-time without leaving Slack.

2. Git Plugin

- **Description:** Integrates Jenkins with Git repositories (GitHub, GitLab, Bitbucket, etc.).
- **Features:**
 - Pulls code from Git for builds.
 - Supports branch and tag-based builds.
 - Triggers builds on Git events (e.g., push, pull request).
- **Use Case:** Essential for any project using Git for version control.

3. Jira Plugin for Jenkins

- **Description:** Connects Jenkins with Jira for issue tracking and project management.
- **Features:**
 - Updates Jira issues with build statuses.
 - Creates Jira issues from failed builds.
 - Links Jenkins builds to Jira issues.
- **Use Case:** Streamline collaboration between development and project management teams.

4. Kubernetes Plugin

- **Description:** Dynamically provisions Jenkins agents on a Kubernetes cluster.
- **Features:**
 - Scales build agents based on workload.
 - Runs builds in isolated containers.
 - Integrates with cloud-native environments.
- **Use Case:** Ideal for organizations using Kubernetes for container orchestration.

5. SonarQube Plugin for Jenkins

- **Description:** Integrates Jenkins with SonarQube for static code analysis.
- **Features:**
 - Sends code quality metrics to SonarQube.
 - Fails builds based on quality gate thresholds.
 - Displays SonarQube reports in Jenkins.
- **Use Case:** Ensure code quality and maintainability in your CI/CD pipeline.

6. Docker Plugin

- **Description:** Enables Jenkins to build, test, and deploy Docker containers.
- **Features:**
 - Builds Docker images from Dockerfiles.
 - Pushes images to Docker registries.
 - Runs containers as part of the build process.
- **Use Case:** Essential for containerized application development and deployment.

7. Blue Ocean Plugin

- **Description:** Provides a modern, user-friendly interface for Jenkins pipelines.
- **Features:**
 - Visualizes pipeline stages and statuses.
 - Simplifies pipeline creation and debugging.
 - Integrates with Git and GitHub for pull request builds.
- **Use Case:** Improve the developer experience with a sleek and intuitive UI.

8. Stage View Plugin

- **Description:** Displays pipeline stages in a graphical view.
- **Features:**
 - Shows real-time progress of pipeline stages.
 - Highlights failed stages for quick debugging.
 - Integrates with Jenkins Pipeline.
- **Use Case:** Monitor pipeline execution and identify bottlenecks easily.

9. Publish Over SSH Plugin

- **Description:** Transfers files or executes commands on remote servers via SSH.
- **Features:**
 - Uploads build artifacts to remote servers.
 - Runs shell commands on remote machines.
 - Supports multiple SSH servers.
- **Use Case:** Automate deployments to remote servers securely.

10. Publish Over FTP Plugin

- **Description:** Uploads files to remote servers using FTP/SFTP.
- **Features:**
 - Transfers build artifacts to FTP servers.
 - Supports secure FTP (SFTP).
 - Configurable file paths and permissions.
- **Use Case:** Deploy files to legacy systems or shared hosting environments.

11. Ansible Plugin for Jenkins

- **Description:** Integrates Jenkins with Ansible for configuration management, application deployment, and orchestration.
- **Features:**
 - Executes Ansible playbooks directly from Jenkins jobs.
 - Supports Ansible vault for secure credential management.
 - Provides real-time output of Ansible playbook execution in Jenkins console.
 - Allows parameterized builds to pass variables to Ansible playbooks.
- **Use Case:** Automate infrastructure provisioning, configuration management, and application deployment using Ansible playbooks within Jenkins pipelines.