



devops_corner

CI-CD with Jenkins



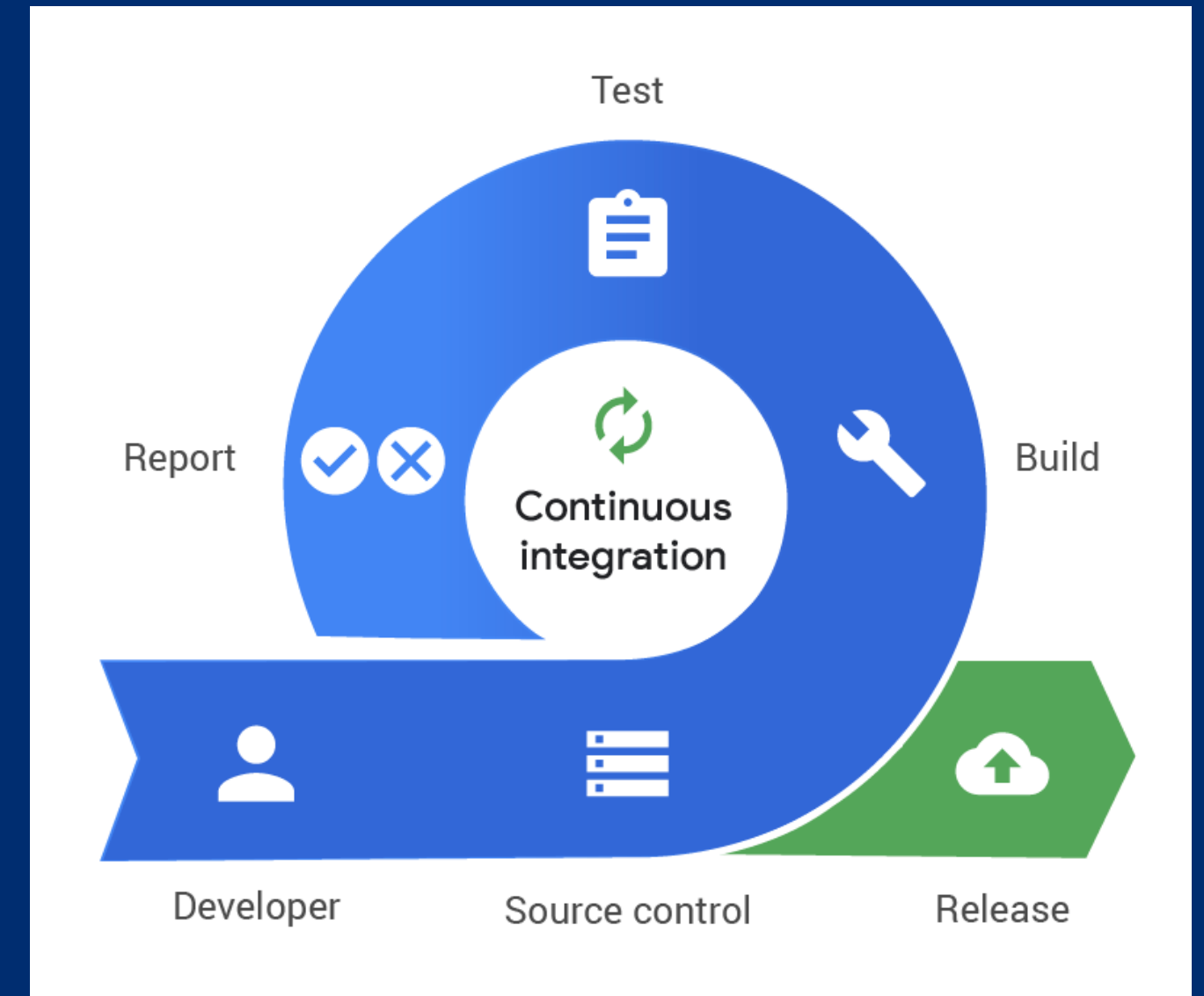
Jenkins

Why CI is important?

Continuous integration is important because it helps teams of software developers work together more efficiently and produce higher-quality software.

In simple terms, it means that instead of everyone working on their own separate versions of the code, they all work on a shared codebase that is regularly tested and merged together.

By catching issues early and frequently, teams can save time and reduce the likelihood of introducing errors into the final product. Overall, continuous integration makes the software development process smoother, more reliable, and more collaborative.



What is Jenkins?

Jenkins is an open-source automation tool that is used for continuous integration and continuous delivery (CI/CD) of software.

In simple terms, Jenkins helps software development teams to automate their development, testing, and deployment processes.

It allows developers to build, test, and deploy code quickly and consistently, and provides feedback on any errors or issues that may arise.

Jenkins is highly customizable and can be integrated with a wide range of third-party tools, making it a popular choice for software development teams of all sizes.



Jenkins installation

Create EC2 server on which we are going to install the Jenkins software

Jenkins has dependency on Java so make sure you install Java first before installation Jenkins

Below is the link from which you can check Jenkins Installation process

<https://www.jenkins.io/doc/book/installing/>

Follow the steps for installation

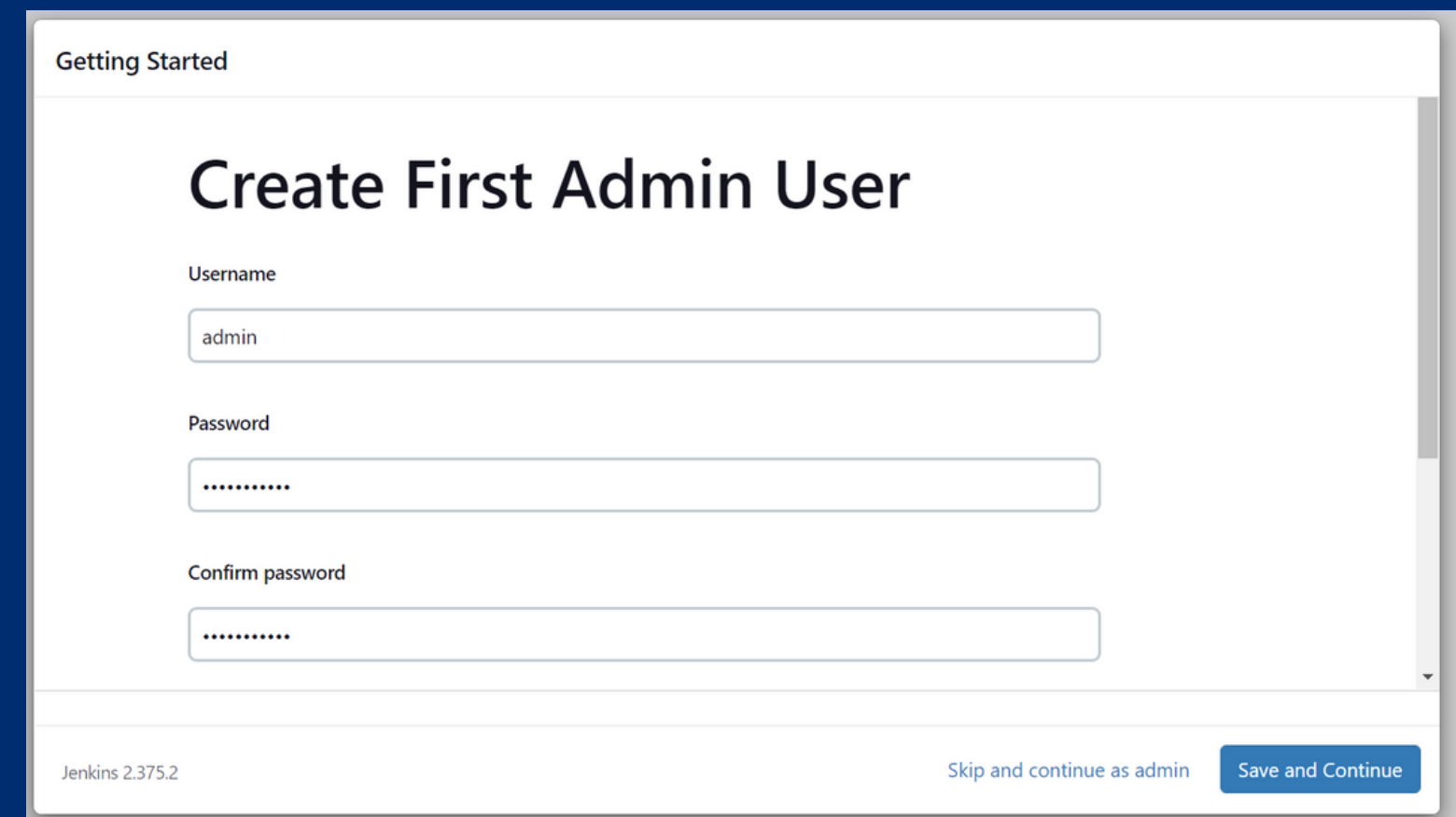
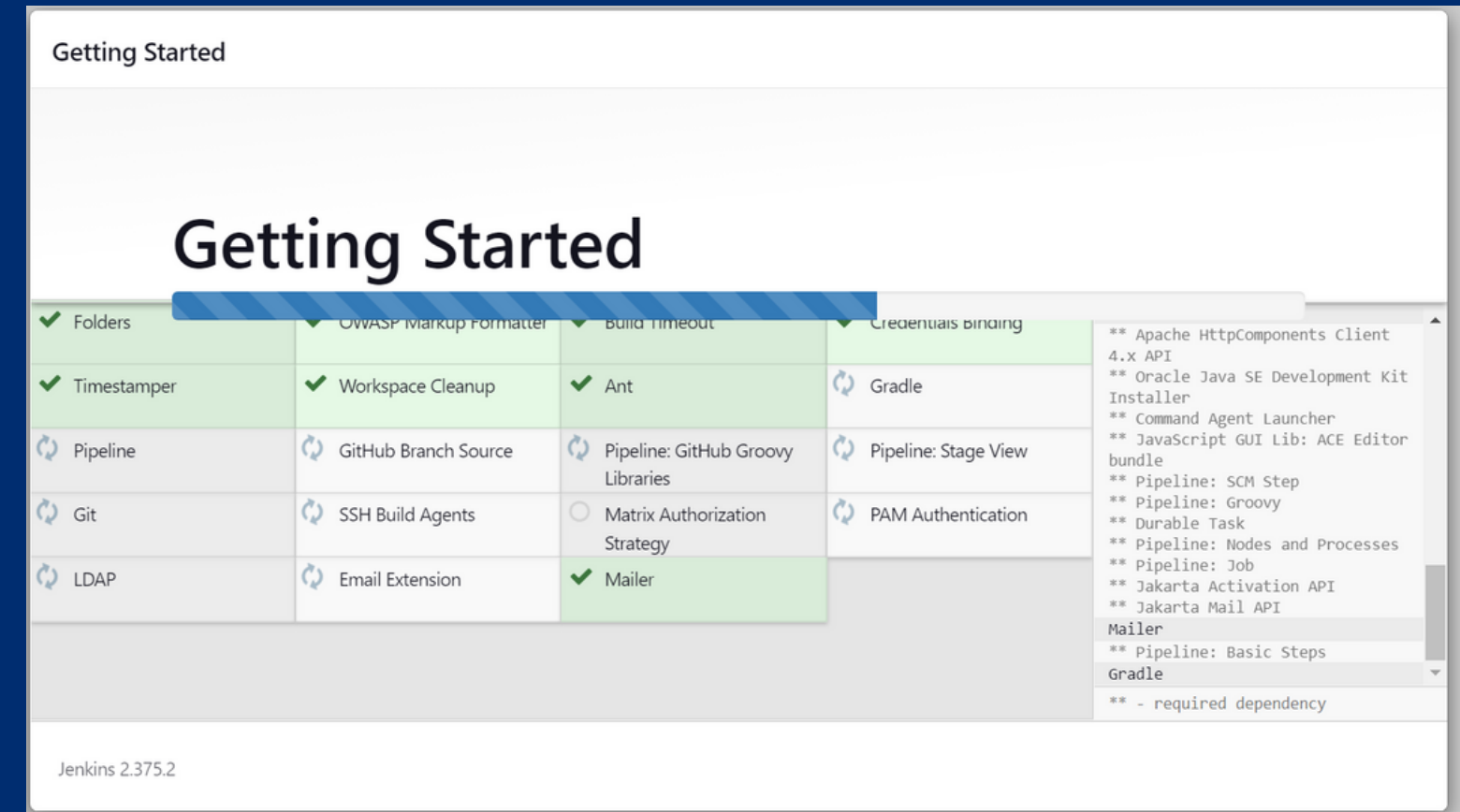
Once done open the 8080 port of security group and access the Jenkins application on browser with `http://<public-ip>:8080`

Configure Jenkins

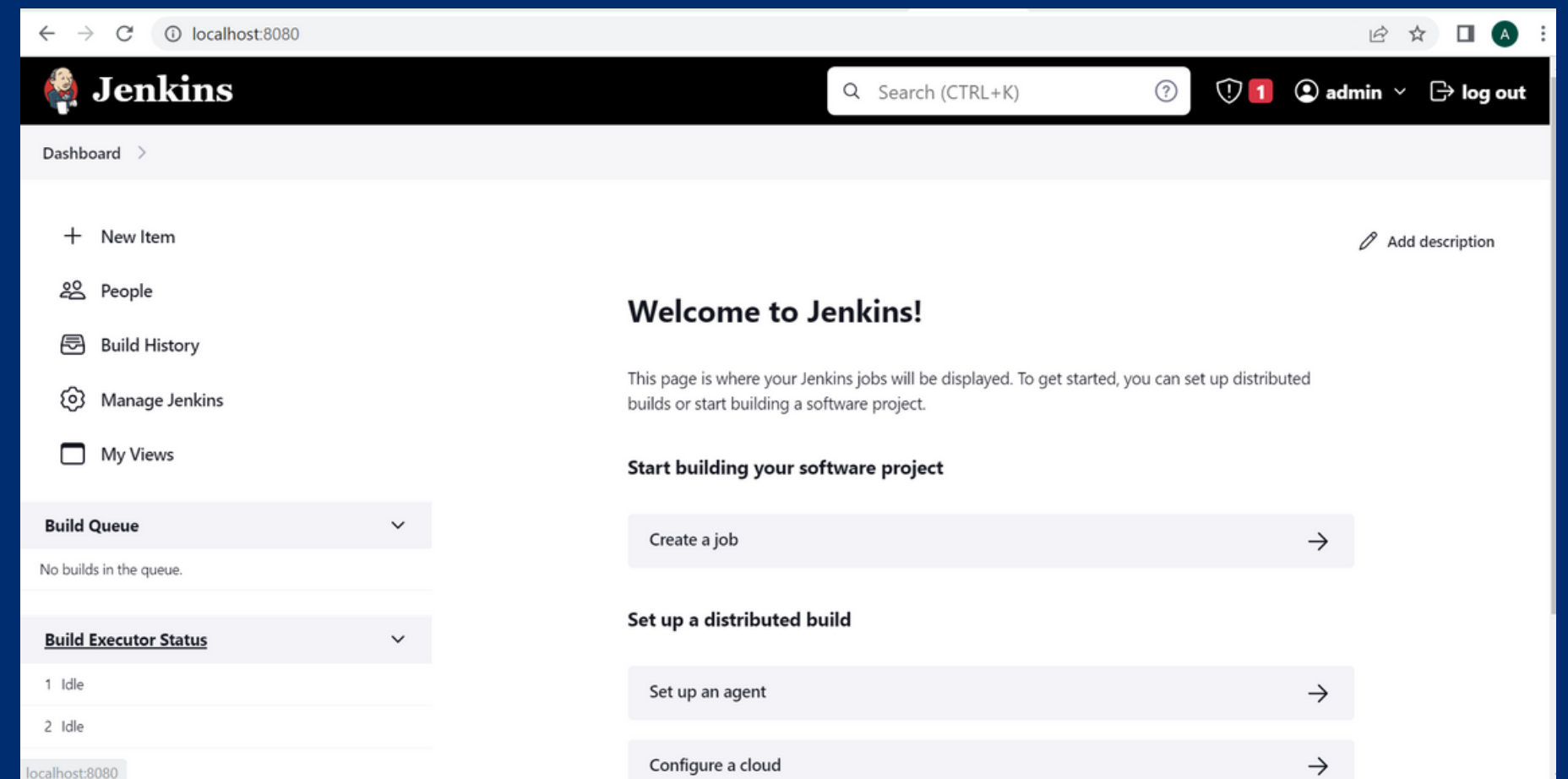
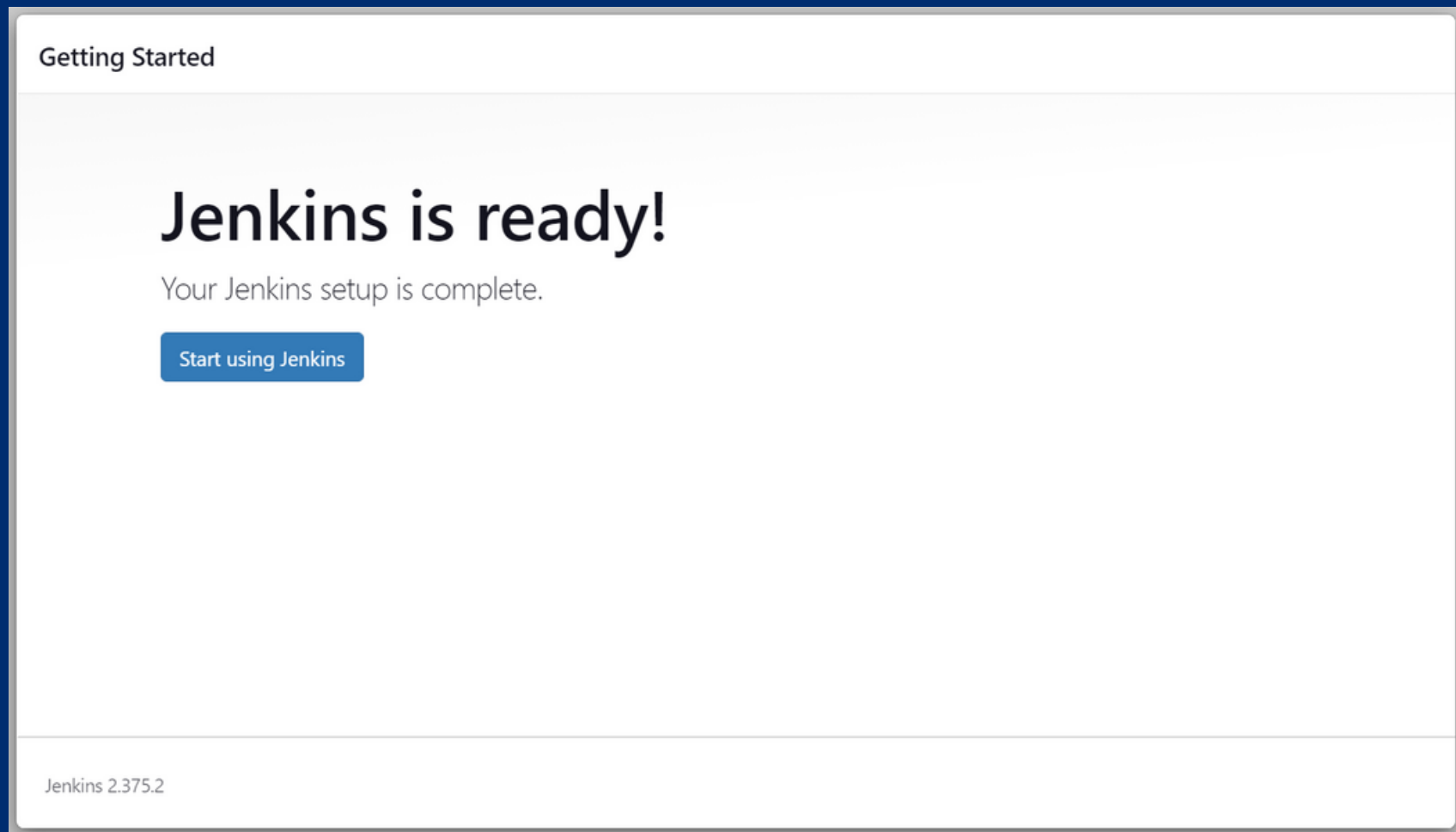
Provide the initial password

Install Suggested Plugins

Create First Admin User



Jenkins is Ready !





Thank You