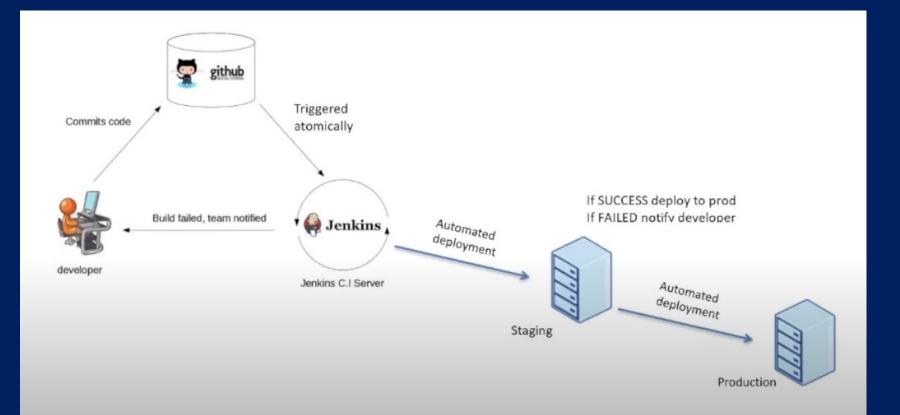


Week 7: SOFTWARE DEVELOPMENT TOOLS AND ENVIRONMENTS



## Jenkins Installation on Ubuntu

Installation Steps ∂	
Update System Packages Update the list of available packages and their versions.	
sudo apt-get update	G
2. Installation of Java	
sudo apt update sudo apt install fontconfig openjdk-17-jre java -version openjdk version "17.0.8" 2023-07-18 OpenJDK Runtime Environment (build 17.0.8+7-Debian-1deb12u1) OpenJDK 64-Bit Server VM (build 17.0.8+7-Debian-1deb12u1, mixed mode, sharing)	<sub>C</sub>
3. Long Term Support release	
<pre>curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key   sudo tee \    /usr/share/keyrings/jenkins-keyring.asc &gt; /dev/null echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \    https://pkg.jenkins.io/debian-stable binary/   sudo tee \    /etc/apt/sources.list.d/jenkins.list &gt; /dev/null sudo apt-get update sudo apt-get install jenkins</pre>	<sub>C</sub>
4. Start Jenkins	
sudo systemctl enable jenkins	G
sudo systemctl start jenkins	O
sudo systemctl status jenkins	G.

# How to Change Port for Jenkins?



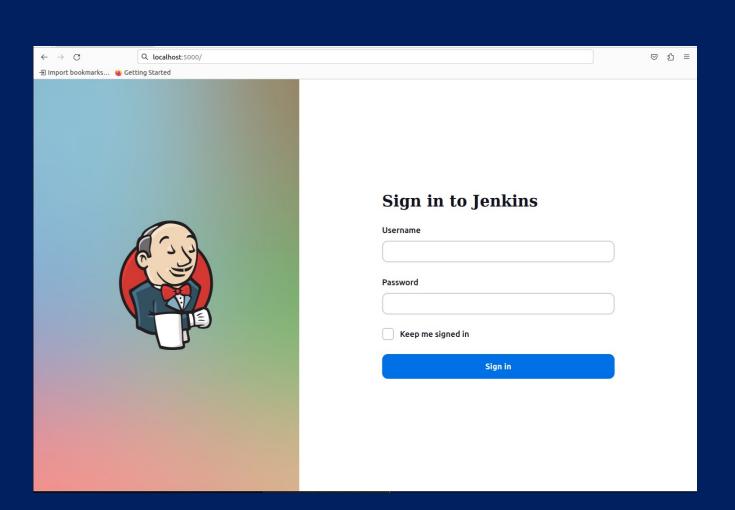
http://localhost:8080



http://localhost:5000

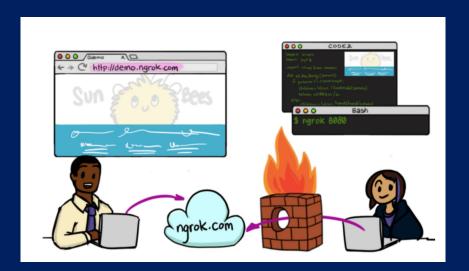
**HTTP Port (default: 8080)** – This is the main port used by Jenkins to serve web pages on your machine. By default, this port is set to 8080 but can be changed based on your requirements.

If Jenkins fails to start because a port is in use, run systemctl edit jenkins and add the following:  1. Override the Jenkins Service Configuration	
sudo systemctl edit jenkins	c
2. Add or Modify the ExecStart Command	
[Service] Environment="JENKINS_PORT=5000"	<sub>C</sub>
3.Reload the Systemd Daemon	
systemctl daemon-reload	C
4. Restart the Jenkins service to apply the changes	
sudo service jenkins restart	C



## How to forward my local port to public using ngrok

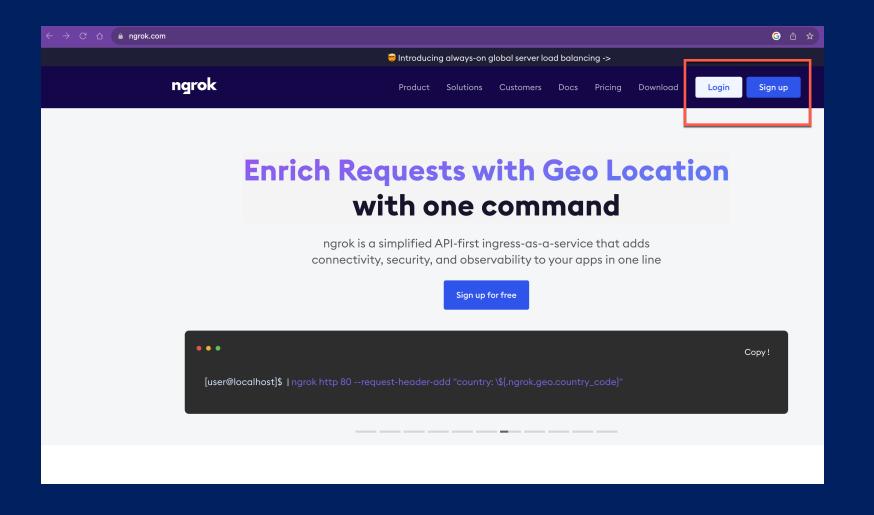
### What is ngrok?

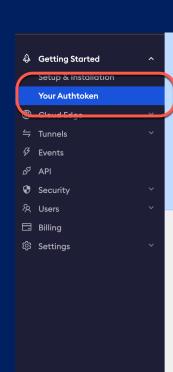


ngrok exposes local servers behind NATs and firewalls to the public internet over secure tunnels.

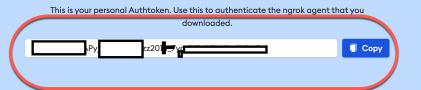
#### Advantages

- Demoing web sites without deploying
- Building webhook consumers on your dev machine
- Testing mobile apps connected to your locally running backend
- Stable addresses for your connected devices that are deployed in the field
- Running personal cloud services from your home





#### Your Authtoken



Command Line
Authenticate your ngrok agent. You only have to do this once. The Authtoken is saved in the default configuration file.  \$ ngrok config add-authtoken
Configuration File
Alternatively, you can directly add the Authtoken to your ngrok.yml configuration file. Use ngrok config edit to open the file.
# in ngrok.yml authtoken:

Reset Your Authtoken

