

```
Dockerfile + (~/dev/screencasts/docker/basic-build) - VIM
" Press ? for help
.. (up a dir)
</docker/basic-build/
Dockerfile
1 FROM alpine
2
3 CMD ["echo hello world!"]
```

```
~/dev/screencasts/docker/basic-build/
$ docker build .
Sending build context to Docker daemon 14.85 kB
Step 1 : FROM alpine
--> 4e38e38c8ce0
Step 2 : CMD echo hello world!
--> Running in 7d0a61233ebe
--> 41c39b30d069
Removing intermediate container 7d0a61233ebe
Successfully built 41c39b30d069

~/dev/screencasts/docker/basic-build/
$
```

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Step 2 : CMD echo hello world!  
--> Running in f9bfc617b23  
--> 2bffd4a8b93a  
Removing intermediate container f9bfc617b23  
Successfully built 2bffd4a8b93a

~/dev/screencasts/docker/basic-build/  
\$ docker run --name 2bffd4a8b93a  
"docker run" requires at least 1 argument(s).  
See 'docker run --help'.  
Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]  
Run a command in a new container  
~/dev/screencasts/docker/basic-build/  
\$ docker run --name test 2bffd4a8b93a  
hello world!  
~/dev/screencasts/docker/basic-build/  
\$

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```
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$ docker rm test
test

~/dev/screencasts/docker/basic-build/
$ docker build .
Sending build context to Docker daemon 28.67 kB
Step 1 : FROM alpine
--> 4e38e38c8ce0
Step 2 : COPY script.sh /script.sh
--> 09d9e9d1ae3e
Removing intermediate container a8508e0278c0
Step 3 : CMD /script.sh
--> Running in 18e64e2df474
--> 7343a1e915ed
Removing intermediate container 18e64e2df474
Successfully built 7343a1e915ed

~/dev/screencasts/docker/basic-build/
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```
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$ docker build .
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Step 3 : CMD /script.sh
--> Running in 18e64e2df474
--> 7343a1e915ed
Removing intermediate container 18e64e2df474
Successfully built 7343a1e915ed

~/dev/screencasts/docker/basic-build/
$ docker run --name test 7343a1e915ed
hello world, from a script file!

~/dev/screencasts/docker/basic-build/
$
```

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CPU: 0% usr 0% sys 0% nic 99% idle 0% io 0% irq 0% irq  
Load average: 0.00 0.00 0.00 2/227 7

PID	PPID	USER	STAT	VSZ	%VSZ	CPU	%CPU	COMMAND
7	1	root	R	1516	0%	3	0%	top
1	0	root	S	1512	0%	3	0%	{script.sh} /bin/sh /script.sh

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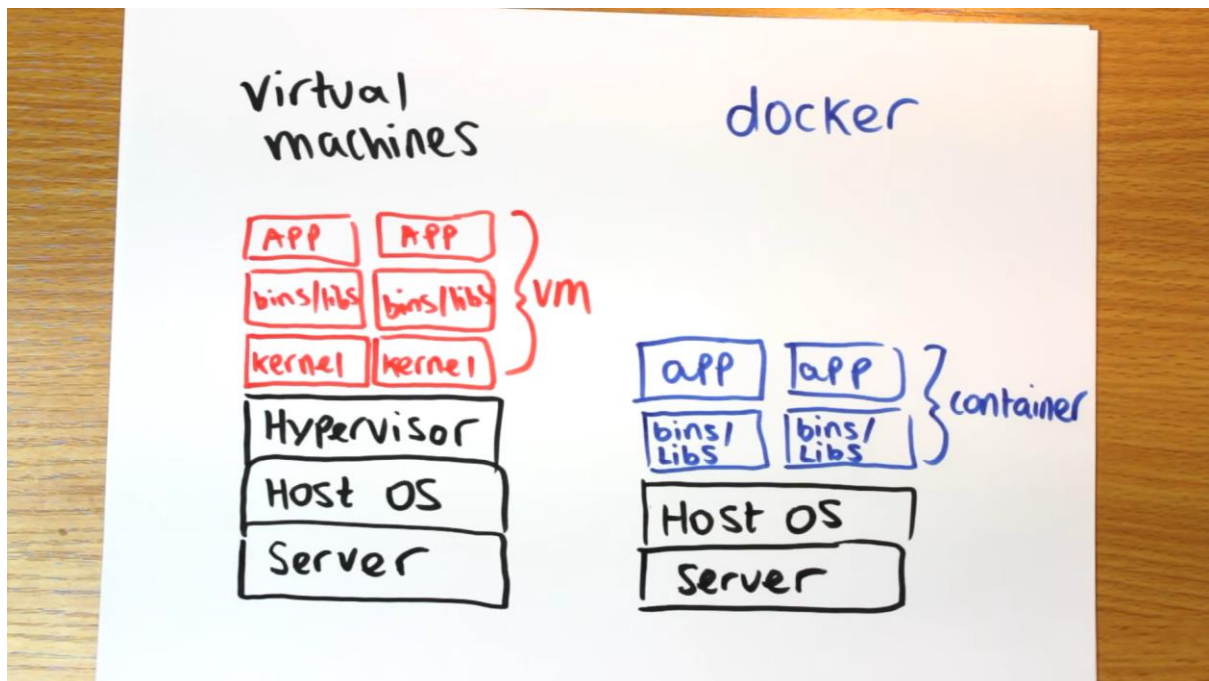
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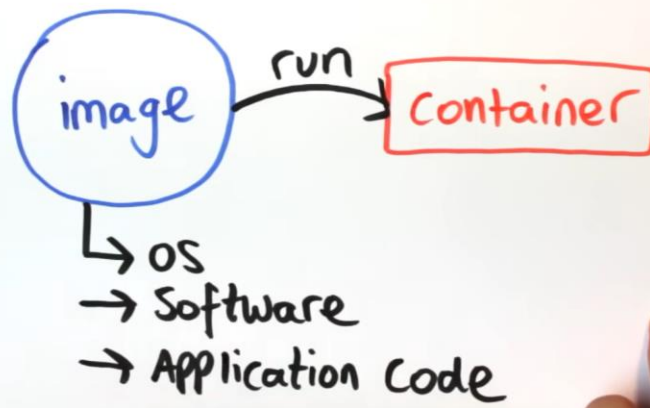
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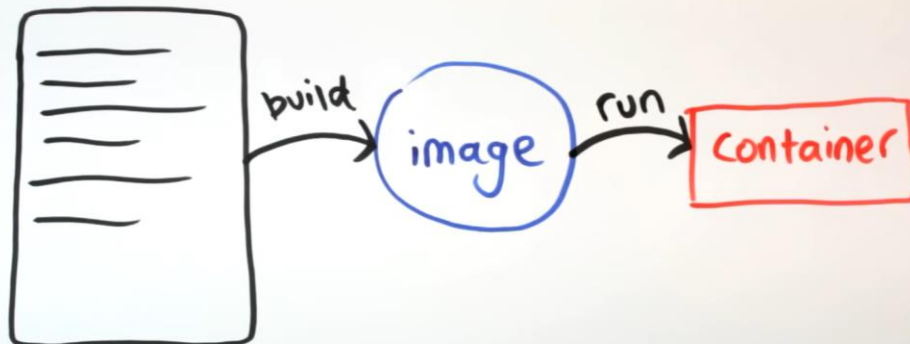
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Dockerfile





## Continuous Integration Tools

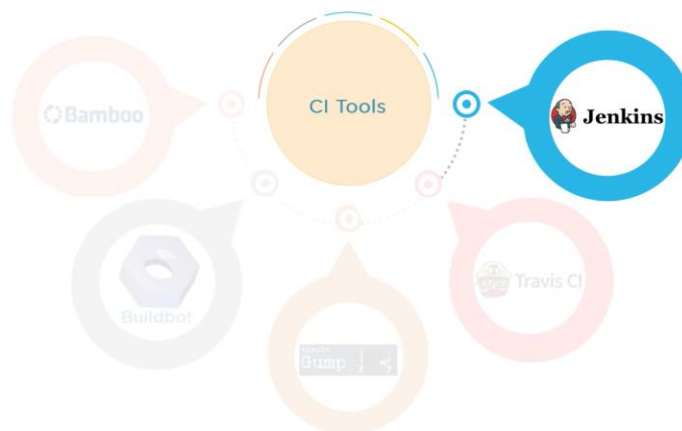


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## Continuous Integration Tools

Jenkins is an open source automation server written in Java. It is used to automate software development process via continuous integration and facilitates continuous delivery.



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## Features of Jenkins

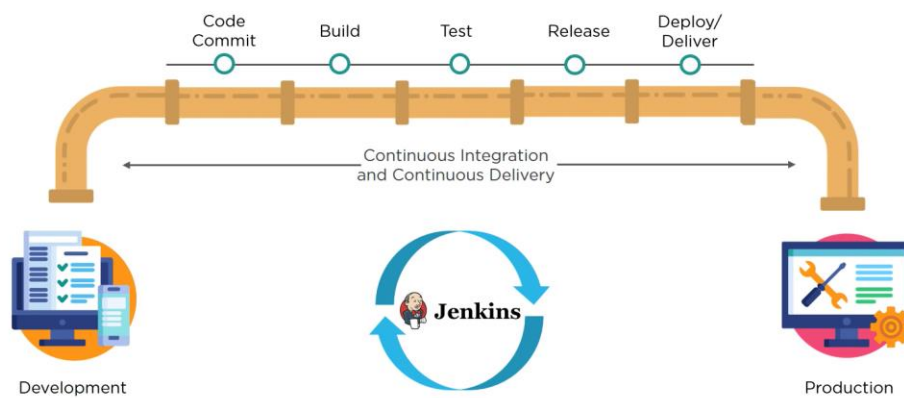


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## Jenkins Pipeline

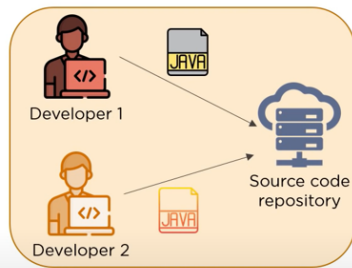
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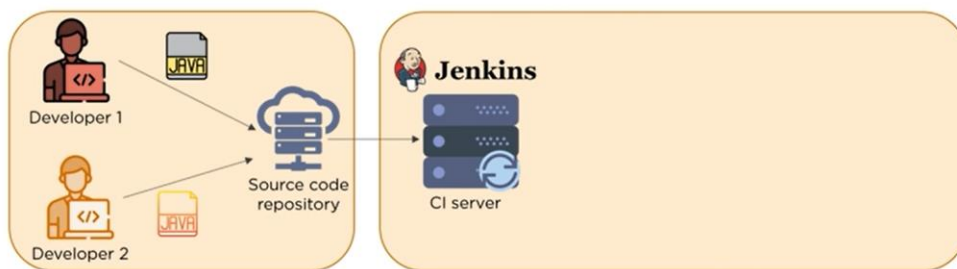
## Jenkins Architecture



Developers commit changes to the source code

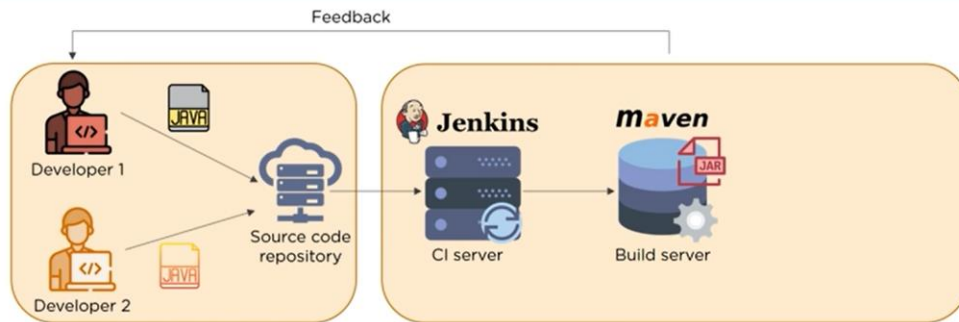
## Jenkins Architecture

Press **Esc** to exit full screen



Jenkins server checks the repository at regular intervals and pulls any newly available code

## Jenkins Architecture



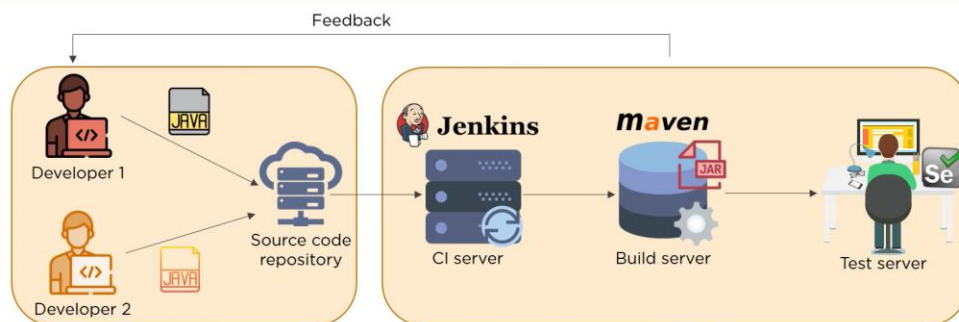
Build Server builds the code into an executable file. Here, Java file is being converted into JAR file. In case the build fails, a feedback is sent to the developers

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## Jenkins Architecture

Press **Esc** to exit full screen



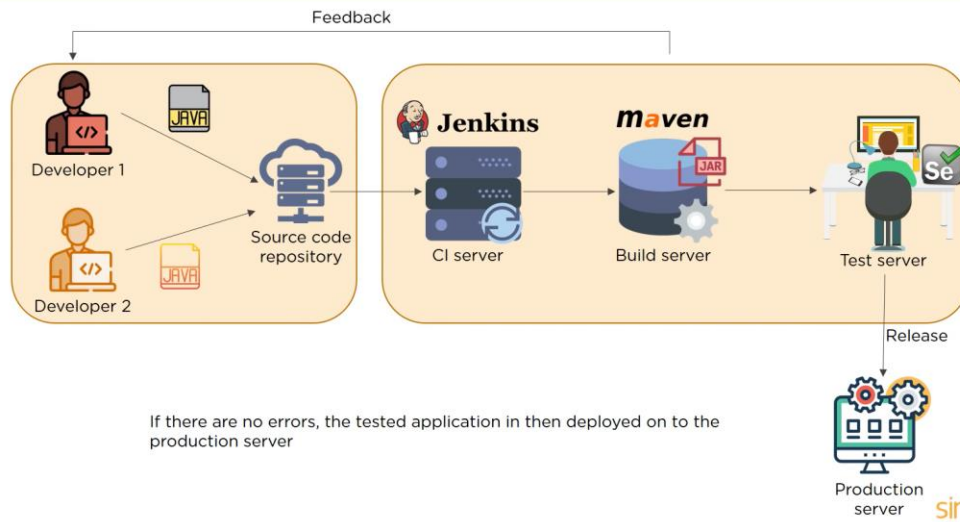
Jenkins then deploys the build application on to test server for testing. If the test fails, feedback is immediately passed on to the developers

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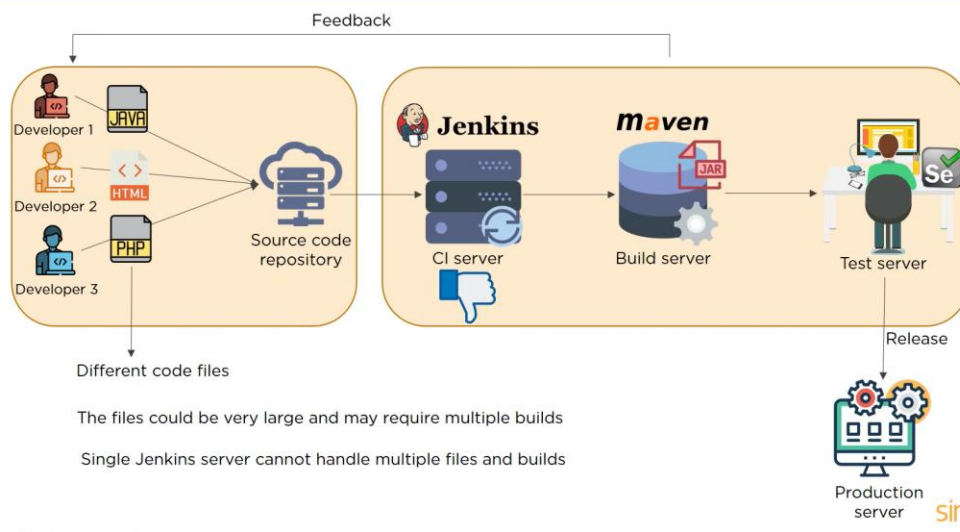


## Jenkins Architecture



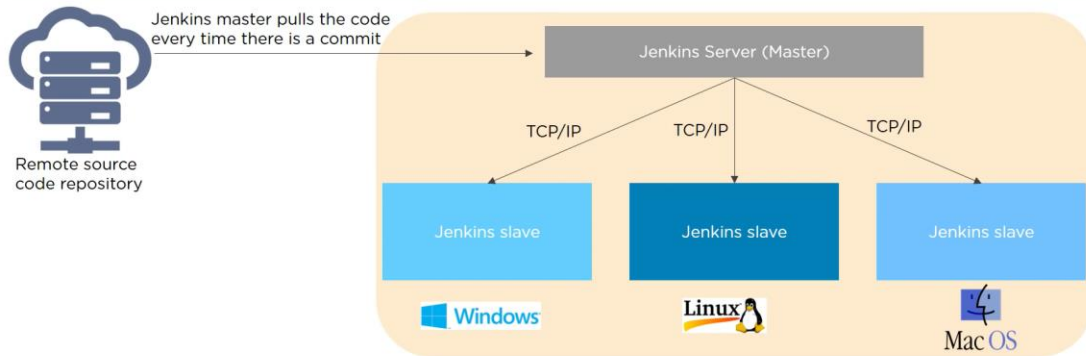
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## Jenkins Architecture



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## Jenkins Master-Slave Architecture



- Jenkins master distributes its workload to all the slaves
- On request from Jenkins master, the slaves carry out builds and tests and produce test reports

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## Jenkins Case Study



## Key Takeaways



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# Pipeline syntax

## Declarative pipeline

```
Pipeline {
    agent any
    stages {
        stage("build"){
            steps {
            }
        }
    }
}
```

## Scripted pipeline

```
node {
    stage(){
        //groovy script
    }
}
```

# Pipeline syntax

## Declarative pipeline

```
Pipeline {  
  agent any  
  stages {  
    stage("build"){  
      steps {  
      }  
    }  
  }  
}
```

← Top-level

← Where to build

← Where work happens

← What to do

The screenshot shows the Jenkins web interface for configuring a pipeline job. The browser address bar indicates the URL is `ec2-13-250-14-67.ap-southeast-1.compute.amazonaws.com:8080/job/pipeline_job/configure`. The Jenkins navigation bar shows the job name `pipeline_job`. The configuration tabs include `General`, `Build Triggers`, `Advanced Project Options`, and `Pipeline`. The `Pipeline` tab is active, displaying the `Pipeline` section. Under the `Definition` dropdown, `Pipeline script` is selected. The `Script` text area contains the following Groovy code:


```
1 pipeline {  
2   agent any  
3   stages {  
4     stage("hello"){  
5       steps(  
6         echo "welcome to jenkins pipelines"  
7       )  
8     }  
9   }  
10 }
```

At the bottom of the configuration area, there are `Save` and `Apply` buttons. A checkbox labeled `Use Groovy Sandbox` is visible at the bottom right.

pipeline\_job [jenkins]

Not secure | ec2-13-250-14-67.ap-southeast-1.compute.amazonaws.com:8080/job/pipeline\_job/

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 Delete Pipeline

 Configure

 Full Stage View

 Rename

 Pipeline Syntax


Build History

trend


find

Atom feed for allAtom feed for failures

## Pipeline pipeline\_job

 add description

Disable Project

 Recent Changes

### Stage View

No data available. This Pipeline has not yet run.

### Permalinks

ec2-13-250-14-67.ap-southeast-1.compute.amazonaws.com:8080/job/pipeline\_job/build?del...