



# Hosting a webserver on local host

## Prerequisites

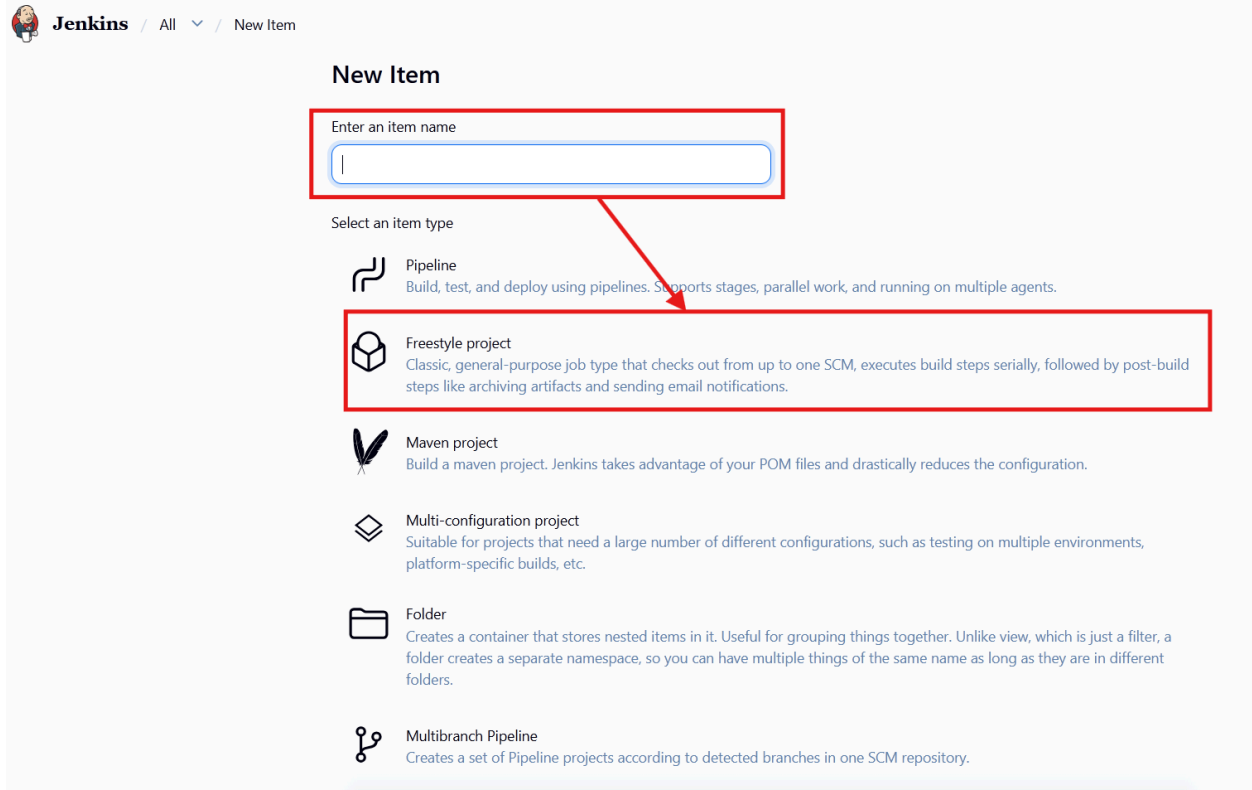
Ensure the following are installed and configured **before** creating the Jenkins job:

- **JDK** (Java 8 or higher)
- **Maven**
- **Apache Tomcat**
- **Jenkins**
- Jenkins plugins:
  - Git Plugin
  - Maven Integration Plugin

**with all the necessary packages, tools and plugins installed,**

## 1. Creating the pipeline foundation

Head too Jenkins home page and click on New Item/ Job  
Name the project as required and select Free style project









Jenkins / All / New Item

### New Item

Enter an item name

Select an item type

-  **Pipeline**  
Build, test, and deploy using pipelines. Supports stages, parallel work, and running on multiple agents.
-  **Freestyle project**  
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.
-  **Maven project**  
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
-  **Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
-  **Folder**  
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.
-  **Multibranch Pipeline**  
Creates a set of Pipeline projects according to detected branches in one SCM repository.

## 2. Pipeline

After the creation, we get to see this screen



## Configure



General



Source Code Management



Triggers



Environment



Build Steps



Post-build Actions

## General

Description

Plain text [Preview](#)

☐

Discard old builds ?

☐

GitHub project

☐

This project is parameterized ?

☐

Throttle builds ?

Leave most of it as is and under the---

## Source code management

- We need to link the source code, Let's say we have it in the git repository, link the code here

## Credentials

- Leave empty if public repo
- If private: add GitHub username + Personal Access Token

## Source Code Management

Connect and manage your code repository to automatically pull the latest code for your builds.

☐ None

☒ Git ?

Repositories ?

Repository URL ?

https://github.com/Msocial123/EcommerceApp.git

! Please enter Git repository.

Credentials ?

- none -

Advanced ▼

Now select the branch where the code exists. here the code exists in the master folder

### Branches to build

Use explicit reference:

refs/heads/main

(or `refs/heads/master` if applicable)

Branches to build ?

Branch Specifier (blank for 'any') ?

\*/master

+ Add Branch

leave the triggers and environment as is

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

☐ Trigger builds remotely (e.g., from scripts) ?

☐ Build after other projects are built ?

☐ Build periodically ?

☐ GitHub hook trigger for GITScm polling ?

☐ Poll SCM ?

Environment

Configure settings and variables that define the context in which your build runs, like credentials, paths, and global parameters.

☐ Delete workspace before build starts

☐ Use secret text(s) or file(s) ?

☐ Provide Configuration files ?

☐ Add timestamps to the Console Output

☐ Inspect build log for published build scans

☐ Terminate a build if it's stuck

☐ With Ant ?

### 3. Build Steps

Add build step → **Invoke top-level Maven targets**

#### Goals

clean package

This command:

- Compiles the project
- Generates a WAR file

#### Build Steps

Automate your build process with ordered tasks like code compilation, te

+ Add build step

Filter

Execute Windows batch command

Execute shell

Invoke Ant

Invoke Gradle script

Invoke top-level Maven targets

Provide Configuration files

Run with timeout

Set build status to "pending" on GitHub commit

sending notifications, a

select maven version

## Build Steps

Automate your build process with ordered tasks like coc

⋮ Invoke top-level Maven targets ?

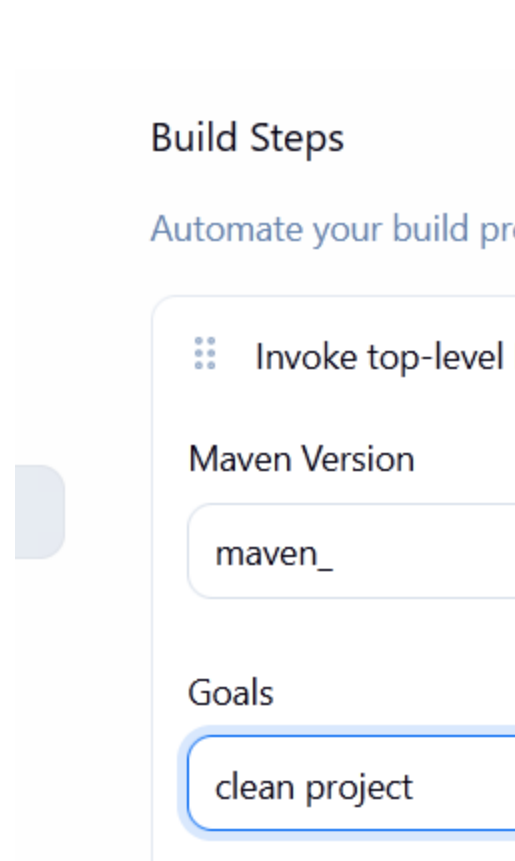
Maven Version

(Default)

(Default)

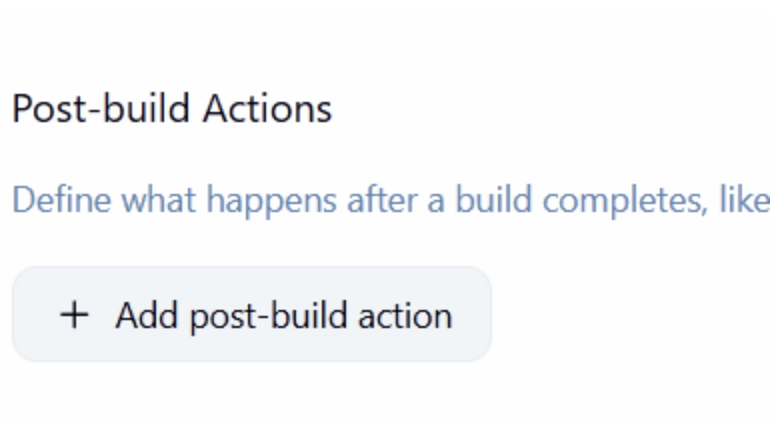
maven\_

and define goals

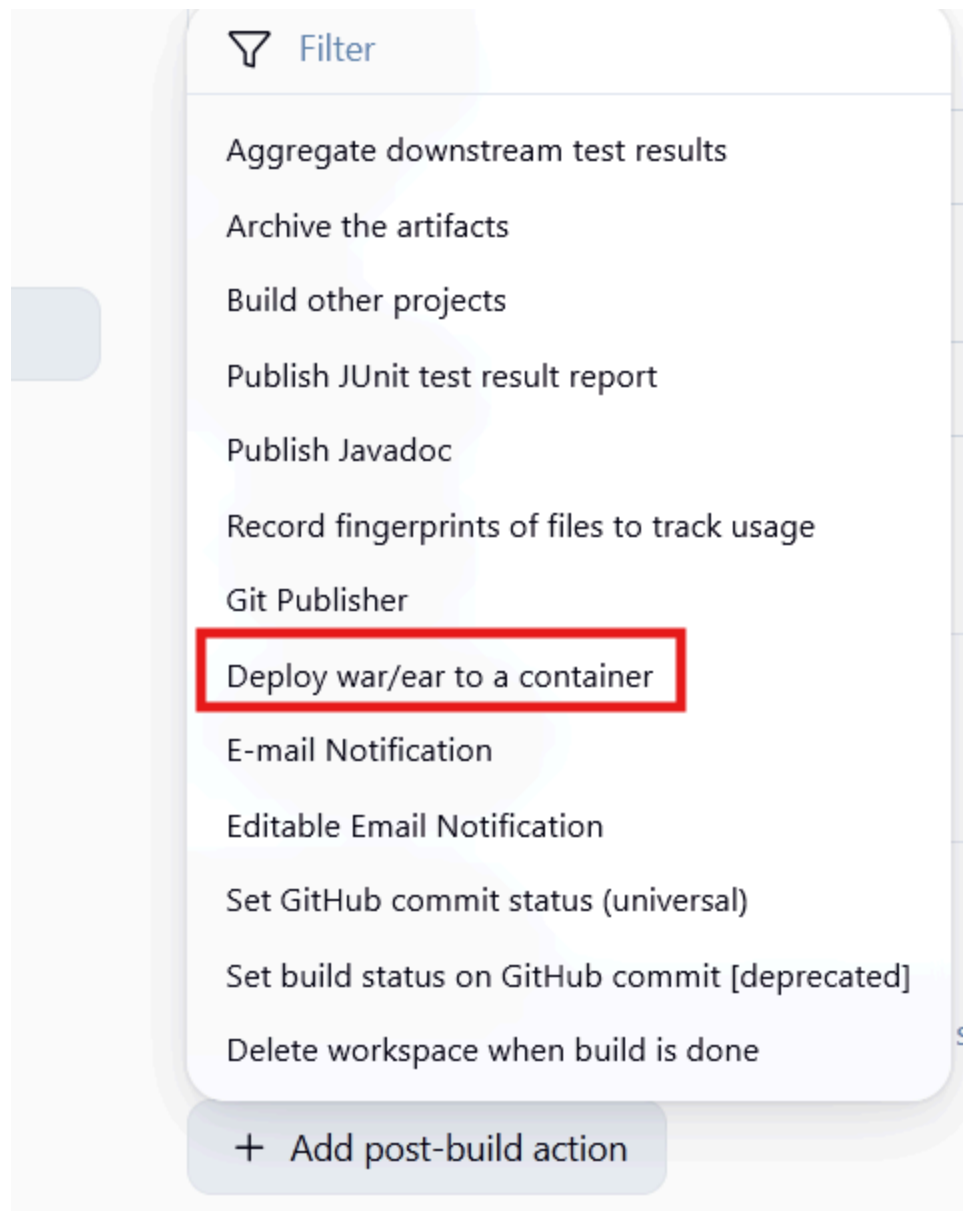


## 4. Post build steps

click on add post build and select this option







define the war/ear files as so

## Post-build Actions

Define what happens after a build completes, like sending notifications

⋮ Deploy war/ear to a container

WAR/EAR files ?

`**/*.war`

War/ear files to deploy. Relative to the workspace root. You

Click on add container

### Containers

+ Add Container

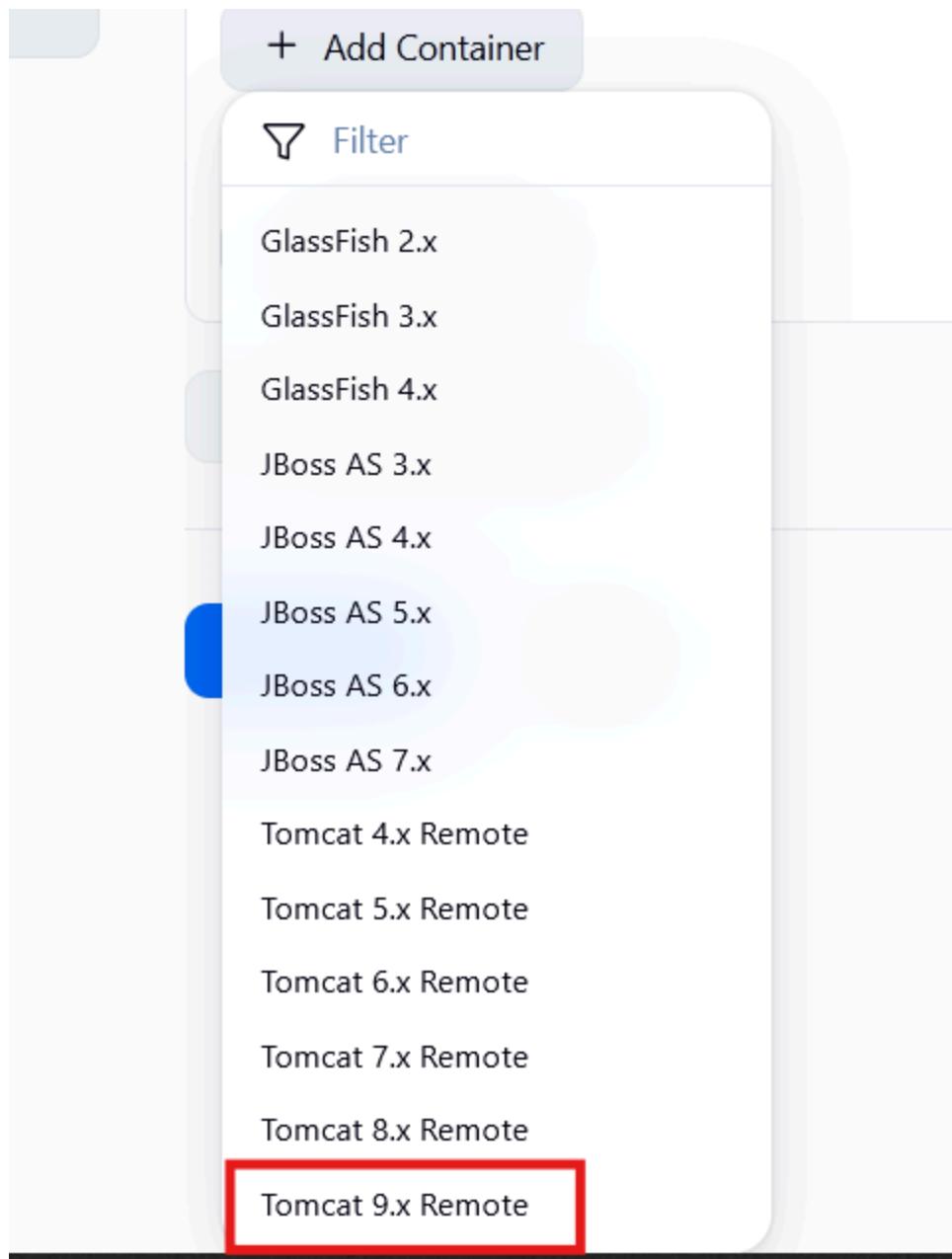
☐ Deploy on failure

+ Add post-build action

Save

Apply

select tomcat version



select tomcat credentials

Containers

Tomcat 9.x Remote

Credentials

ash/\*\*\*\*\*

- none -

ash/\*\*\*\*\*

ashtwt/\*\*\*\*\* (tomcat\_credentials)

Advanced ▾

and finally give the tomcat local host url

Containers

Tomcat 9.x Remote

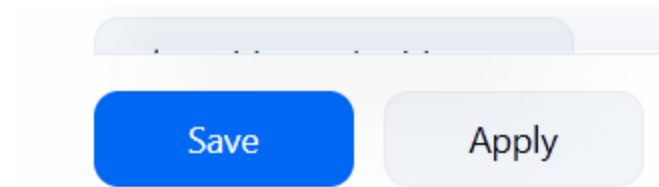
Credentials

ash/\*\*\*\*\*

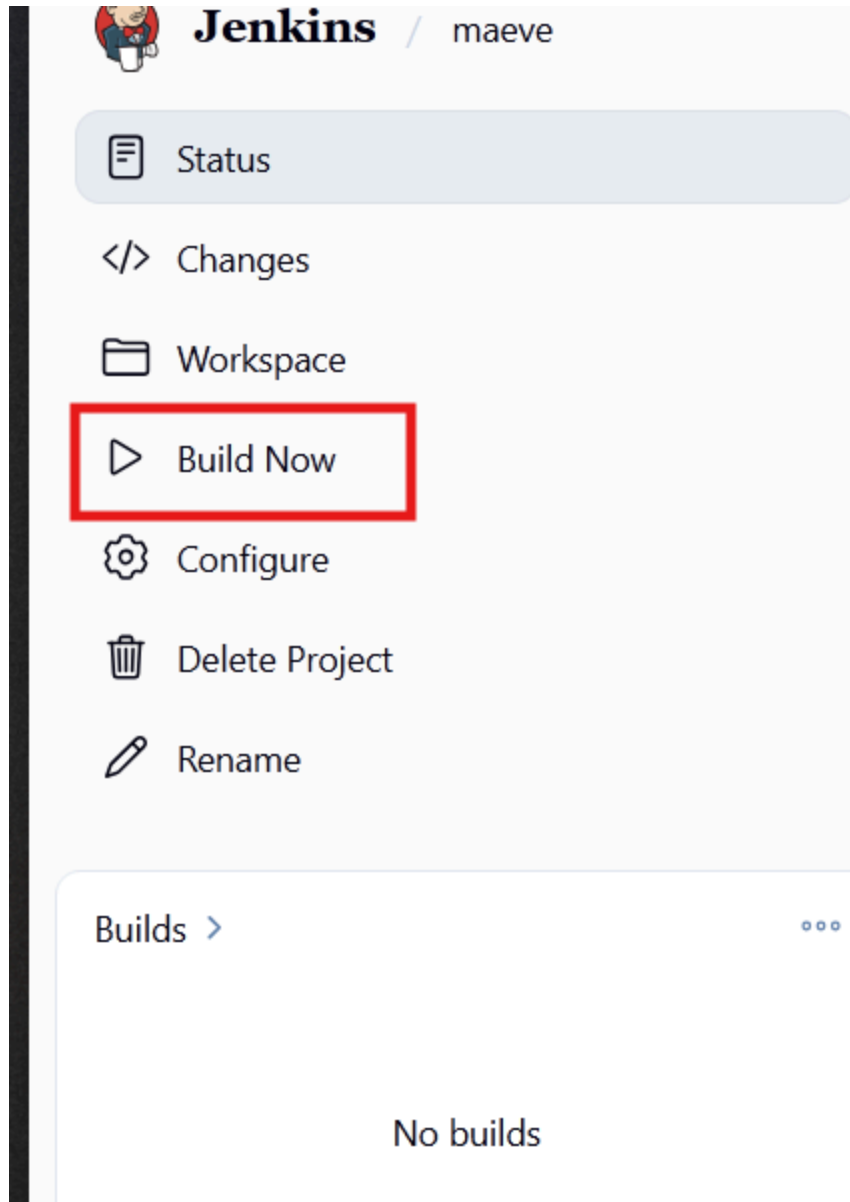
Tomcat URL ?

http://localhost:8082

Save and apply



click on build now





## Verification

After successful build:

1. Jenkins console output shows:

BUILD SUCCESS

```
[INFO] Packaging webapp
[INFO] Assembling webapp [maven-web-application]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\ProgramData\Jenkins\workspace\maven-web-application]
[INFO] Building war: C:\ProgramData\Jenkins\workspace\maven-web-application\target\maven-web-application.war
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 5.946 s
[INFO] Finished at: 2026-01-28T11:19:56+05:30
[INFO] -----
[DeployPublisher][INFO] Attempting to deploy 1 war file
[DeployPublisher][INFO] Deploying C:\ProgramData\Jenkins\workspace\maven-web-application\target\maven-web-application.war to Tomcat 9.x Remote with context null
[C:\ProgramData\Jenkins\workspace\maven-web-application\target\maven-web-application.war]
Deploying [C:\ProgramData\Jenkins\workspace\maven-web-application\target\maven-web-application.war]
Finished: SUCCESS
```


## Tomcat Web Application Manager

Message: OK

**Manager**

[List Applications](#)
[HTML Manager Help](#)
[Manager Help](#)
[Server Status](#)

Applications					
Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a> <a href="#">Expire sessions</a> with idle ≥ 30 minutes
/EcommerceApp	None specified		true	1	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a> <a href="#">Expire sessions</a> with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a> <a href="#">Expire sessions</a> with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a> <a href="#">Expire sessions</a> with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	1	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a> <a href="#">Expire sessions</a> with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a> <a href="#">Expire sessions</a> with idle ≥ 30 minutes
/maven-web-application	None specified	maven-web-application	true	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a> <a href="#">Expire sessions</a> with idle ≥ 30 minutes
/petclinic	None specified		true	0	<a href="#">Start</a> <a href="#">Stop</a> <a href="#">Reload</a> <a href="#">Undeploy</a> <a href="#">Expire sessions</a> with idle ≥ 30 minutes


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# Home

## Work, Play, Learn,

Explore our wide range of laptops

