

Jenkins runs on port 8080.
Java mandatory to be installed.

Download generic war.

Then open cmd.

Type

Java -jar "CompletePathOfWar"

If port number already occupied use this-

Java -jar "CompletePathOfWar" - - httpPort=8081.....

```
C:\Users\karan>java -jar "E:\jenkinswarfile\jenkins.war" --httpPort=9090
Running from: E:\jenkinswarfile\jenkins.war
webroot: C:\Users\karan\jenkins\war
```

Note-

When java version update is required. Download the required version.

Unzip. Add in environment variables under JAVA_HOME. Add in path also.

In path remove all other variables which have java name else cmd does not recognise latest value.

C:\Users\karan>java -version

openjdk version "24.0.1" 2025-04-15

OpenJDK Runtime Environment (build 24.0.1+9-30)

OpenJDK 64-Bit Server VM (build 24.0.1+9-30, mixed mode, sharing)

Open browser

Type

http://127.0.0.1:8080

Or http://localhost:8080

Get the secret key.

Type in the browser.

Install selected plugins.

Enter basic details.

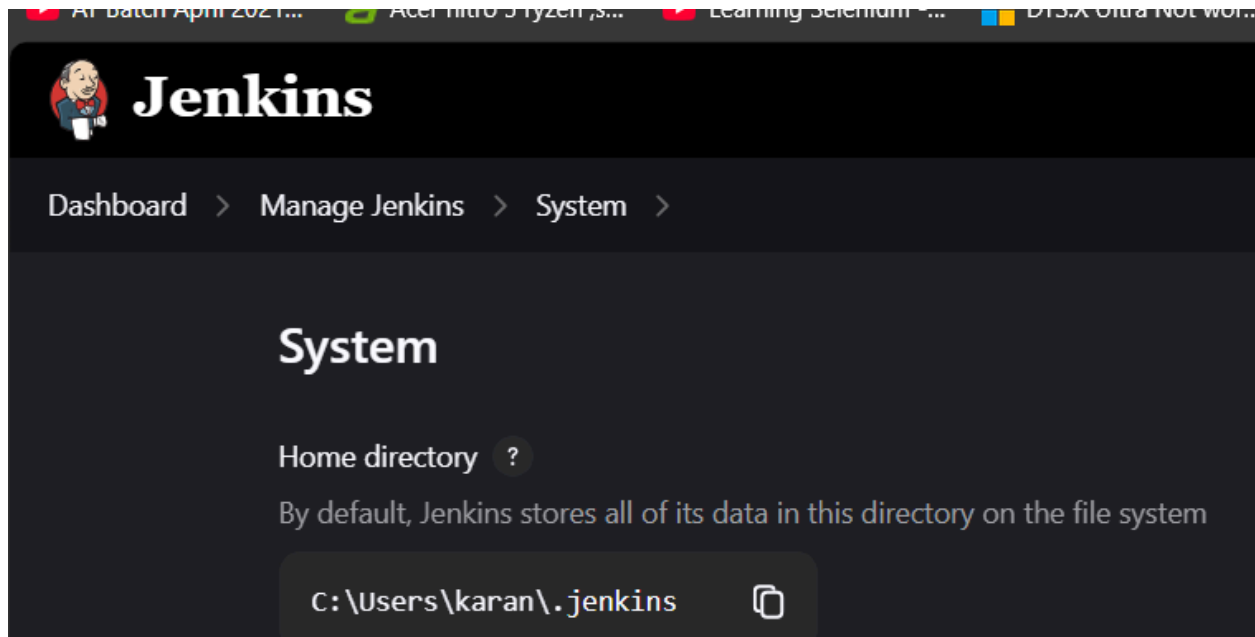
It should start.

Click manage jenkins.

Click configure system.

You will get the path where jenkins is installed on local machine.

Go to the path where jenkins installed.



Open config.xml file.

Number of executors - how many jobs in parallel.

Quiet period - after how many seconds should the build start.

```

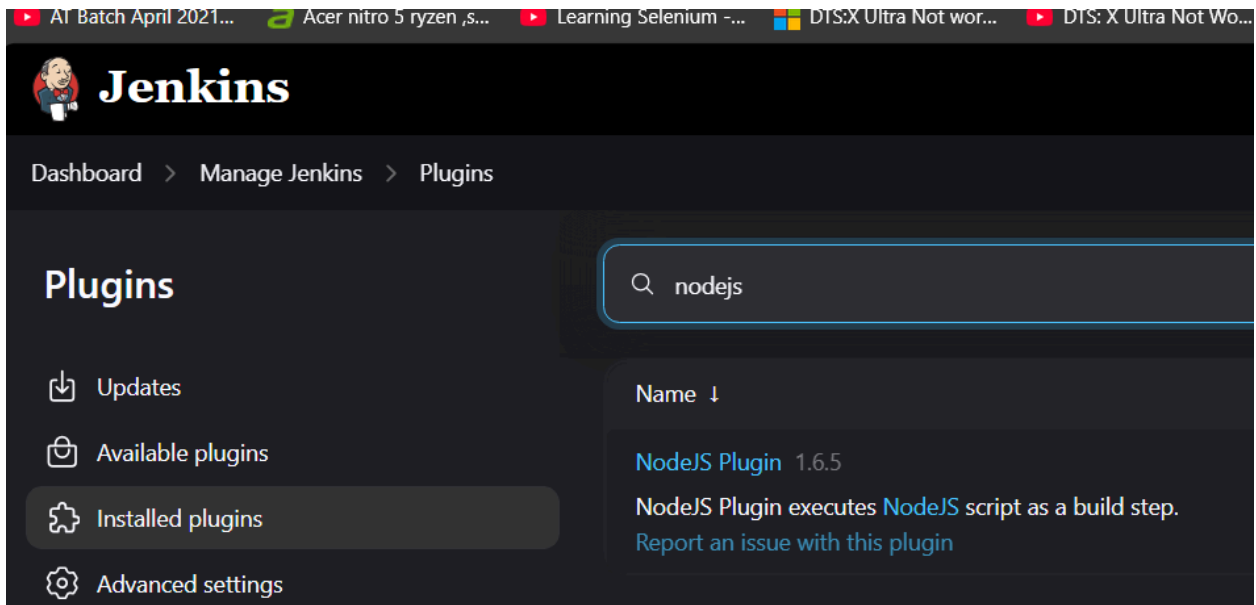
▼<hudson>
  <disabledAdministrativeMonitors/>
  <version>2.504.3</version>
  <numExecutors>2</numExecutors>
  <mode>NORMAL</mode>
  <useSecurity>true</useSecurity>
  ▼<authorizationStrategy class="hudson.security.FullControlOnceLoggedInAuthorizationStrategy">
    <denyAnonymousReadAccess>true</denyAnonymousReadAccess>
  </authorizationStrategy>
  ▼<securityRealm class="hudson.security.HudsonPrivateSecurityRealm">
    <disableSignup>true</disableSignup>
    <enableCaptcha>false</enableCaptcha>
  </securityRealm>
  <disableRememberMe>false</disableRememberMe>
  <projectNamingStrategy class="jenkins.model.ProjectNamingStrategy$DefaultProjectNamingStrategy"/>
  <workspaceDir>${JENKINS_HOME}/workspace/${ITEM_FULL_NAME}</workspaceDir>
  <buildsDir>${ITEM_ROOTDIR}/builds</buildsDir>
  <jdks/>
  <viewsTabBar class="hudson.views.DefaultViewsTabBar"/>
  <myViewsTabBar class="hudson.views.DefaultMyViewsTabBar"/>
  <clouds/>
  <scmCheckoutRetryCount>0</scmCheckoutRetryCount>
  ▼<views>
    ▼<hudson.model.AllView>
      <owner class="hudson" reference="../../../../"/>
      <name>all</name>
      <filterExecutors>false</filterExecutors>
      <filterQueue>false</filterQueue>
      <properties class="hudson.model.View$PropertyList"/>
    </hudson.model.AllView>
  </views>
  <primaryView>all</primaryView>
  <slaveAgentPort>-1</slaveAgentPort>
  <label/>
  ▼<crumbIssuer class="hudson.security.csrf.DefaultCrumbIssuer">
    <excludeClientIPFromCrumb>false</excludeClientIPFromCrumb>
  </crumbIssuer>
  <nodeProperties/>
  <globalNodeProperties/>
  <nodeRenameMigrationNeeded>false</nodeRenameMigrationNeeded>
</hudson>

```

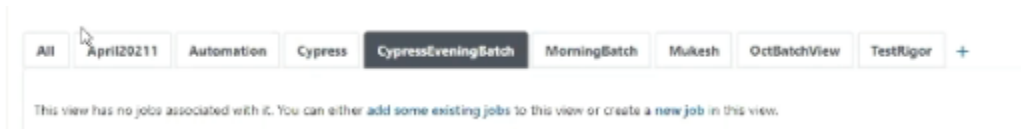
Click manage jenkins. Click plugins.

Click available.

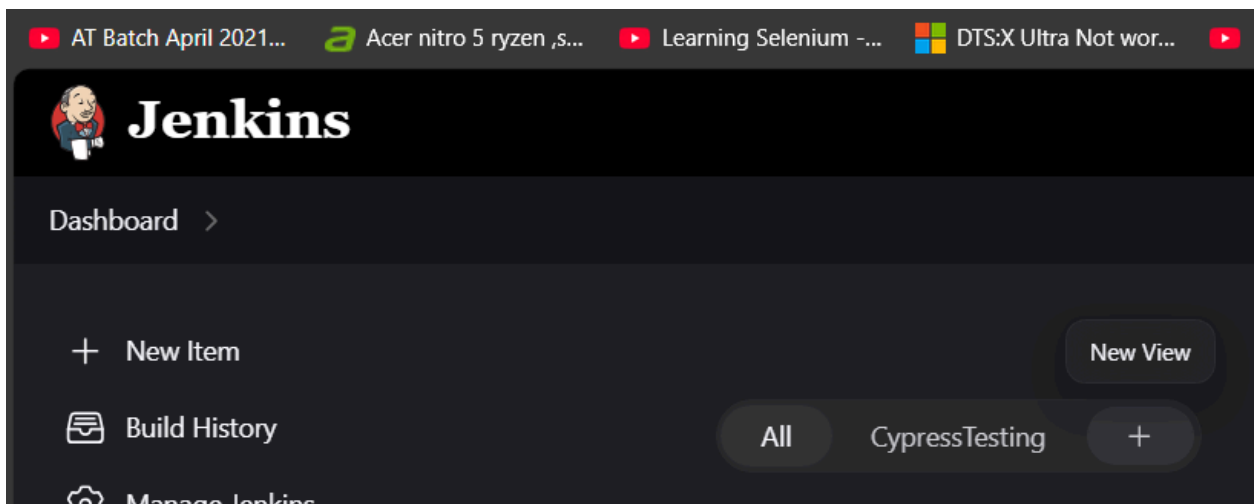
Search for node js.



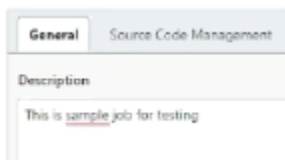
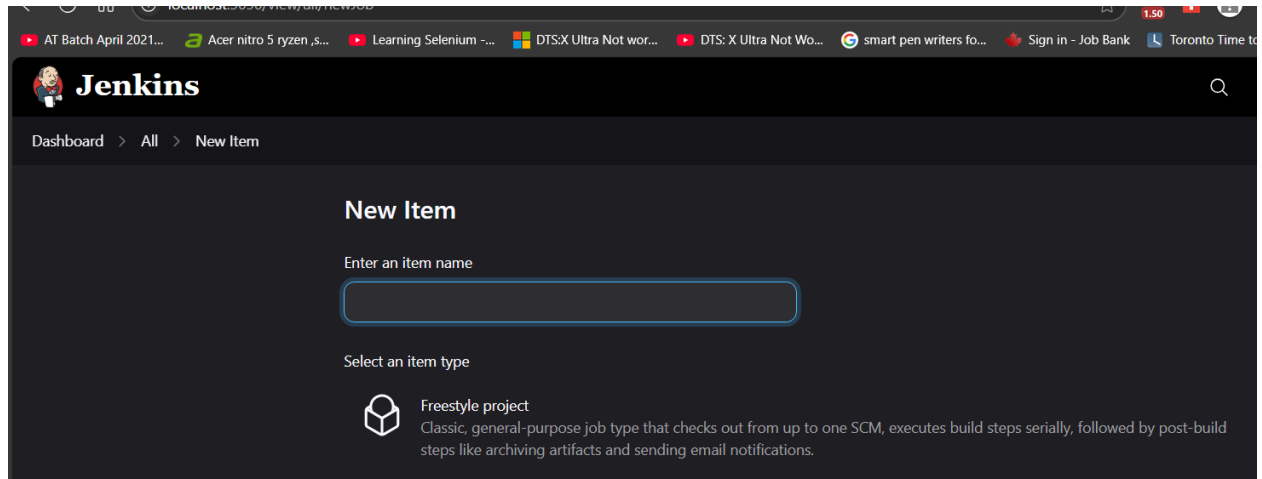
Create view-



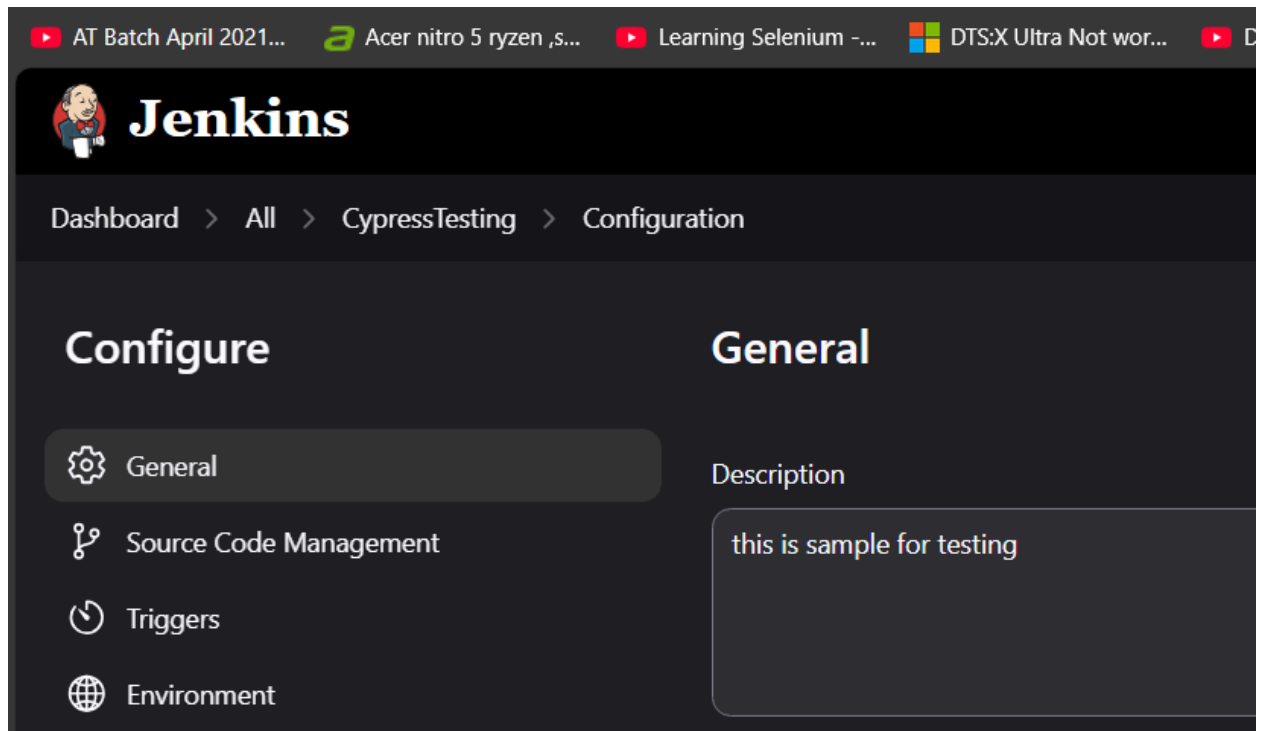
Screen is changed now for creating view –



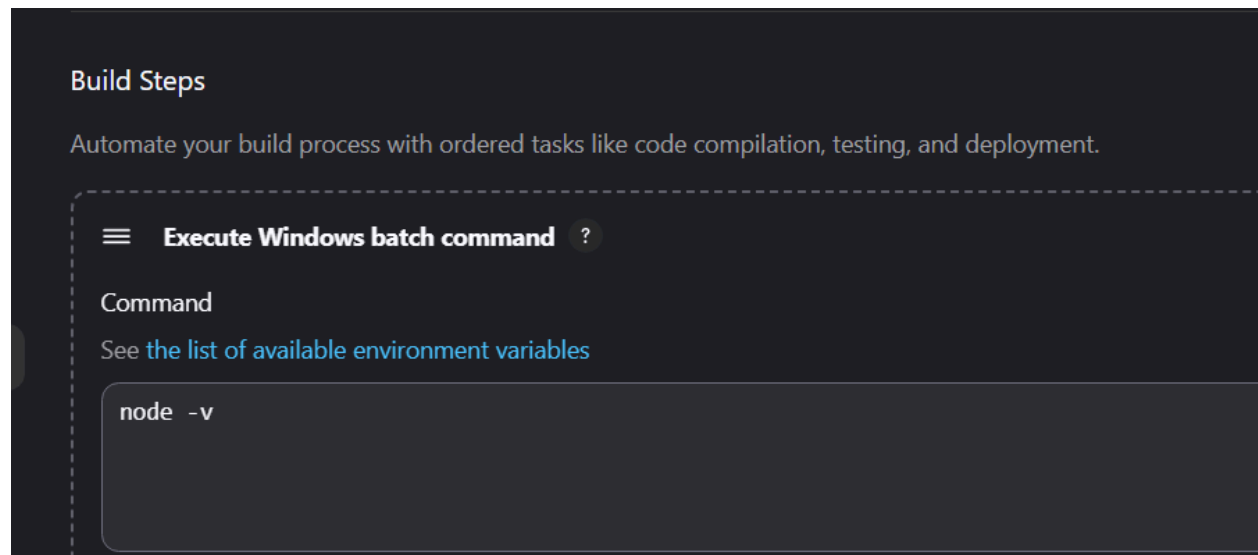
New item.
Give name.
Free style project.
Click ok.



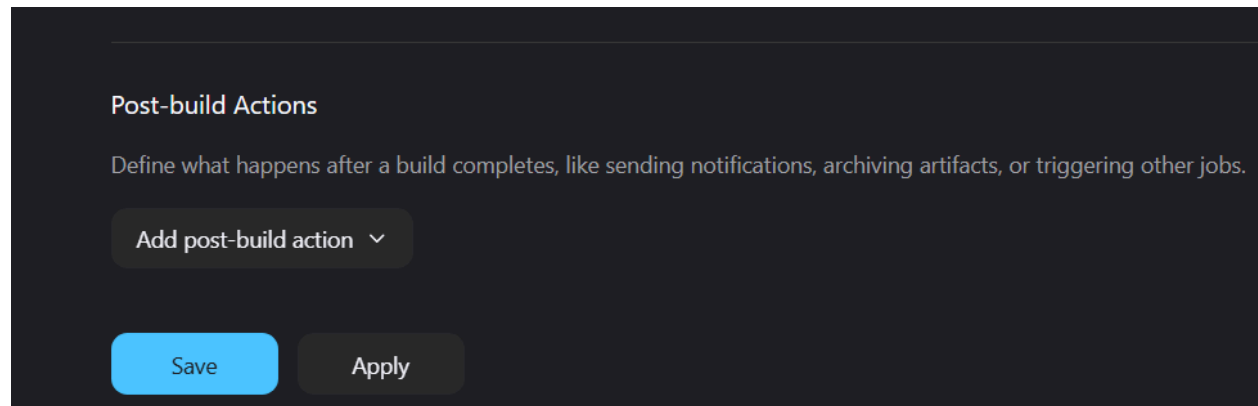
Above screen also changed.



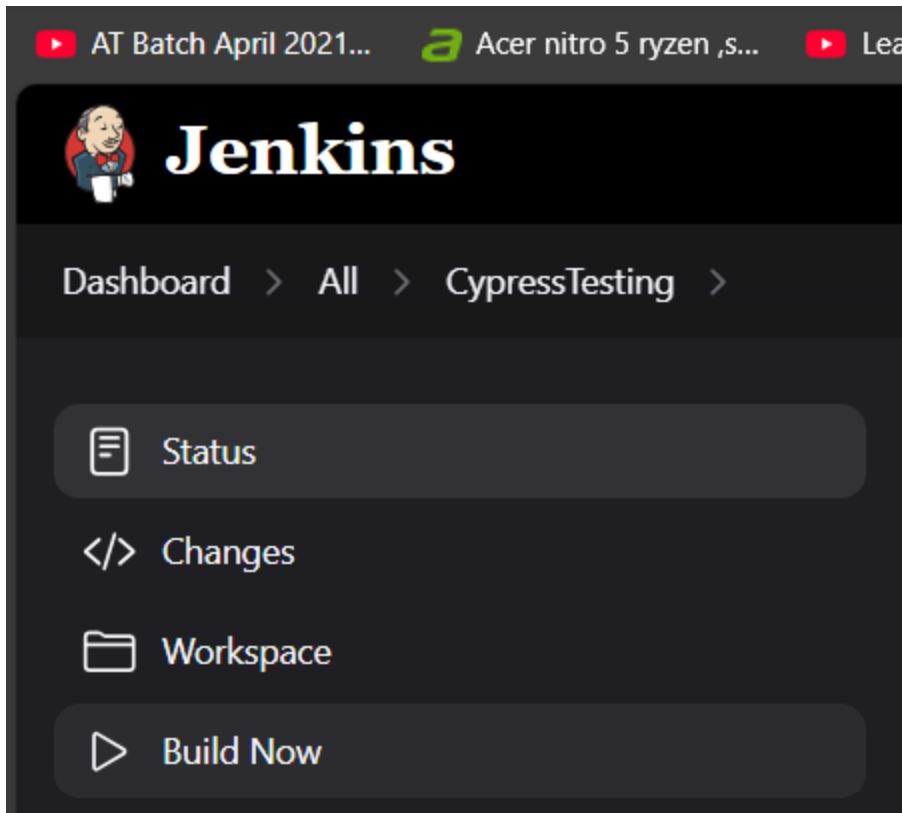
Scroll down to build.



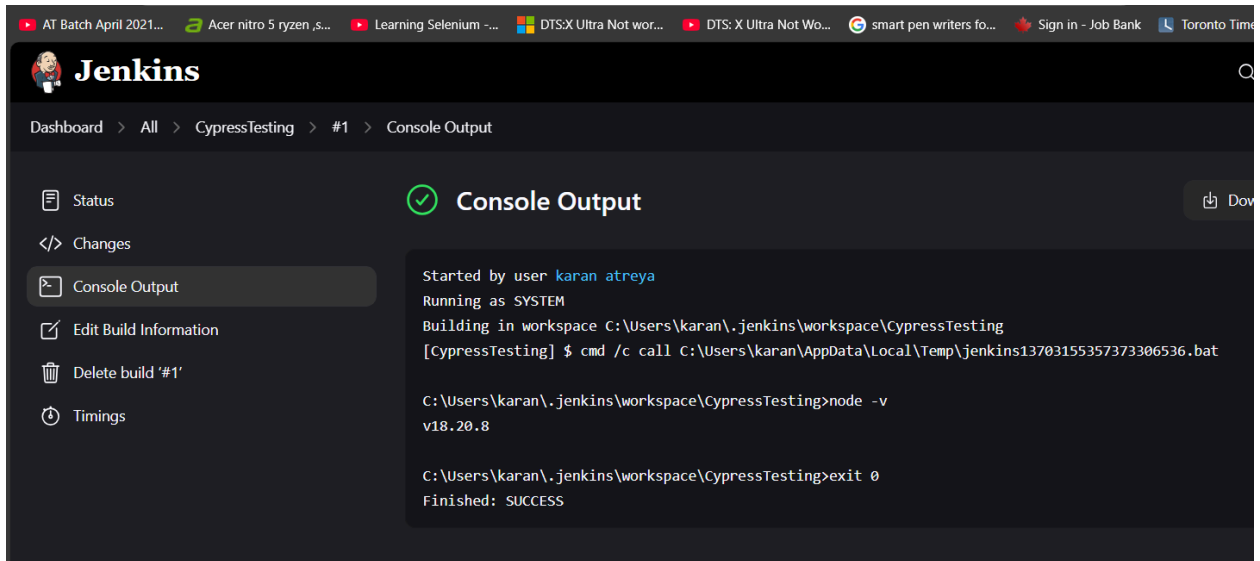
Click save. Click apply.



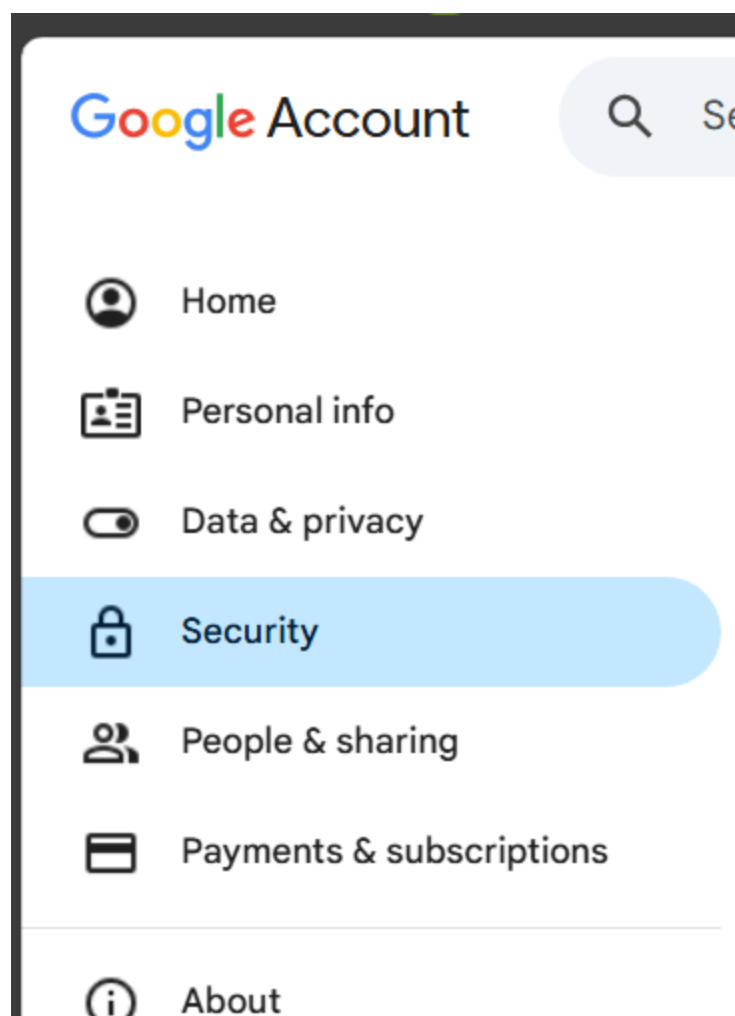
Click build now.



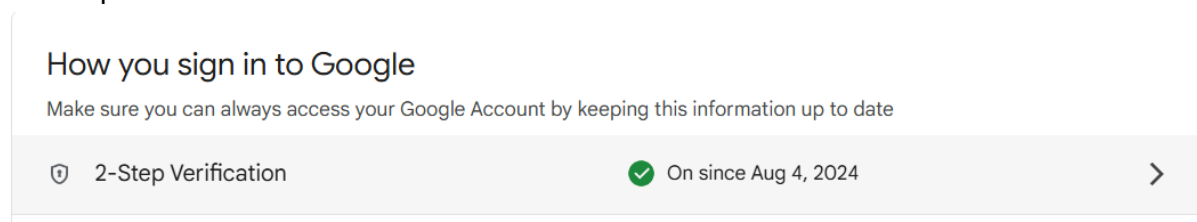
Click on completed build.
Check console output.



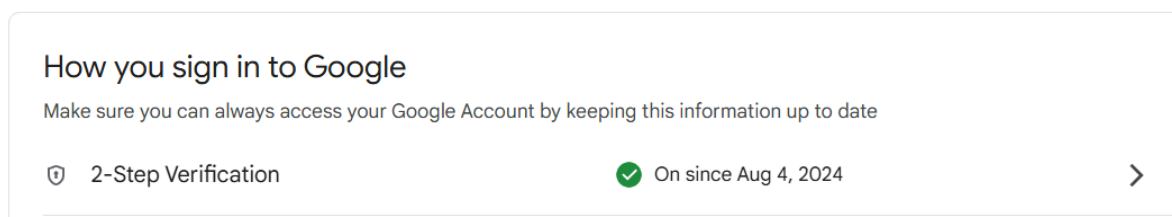
Mail set up in google-
Manage google account after clicking on our name.
Security.



Two step should be on.



Click two step verification.



Click app passwords.

App passwords

App Passwords aren't recommended and are unnecessary in most cases. To help keep your account secure, use "Sign in with Google" to connect apps to your Google Account.

App passwords

1 App password

>

Enter name and click create.

←

App passwords

App passwords help you sign into your Google Account on older apps and services that don't support modern security standards.

App passwords are less secure than using up-to-date apps and services that use modern security standards. Before you create an app password, you should check to see if your app needs this in order to sign in.

[Learn more](#)

Your app passwords

mail

Created on Jul 12, last used on Jul 12

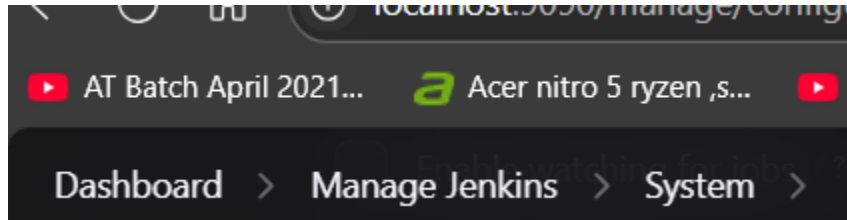
🗑️

To create a new app specific password, type a name for it below...

App name

Create

Copy password.
Go back to jenkins.
Manage jenkins.
Configure system.




Scroll down to email notification.
Smtp server given by IT team. (smtp.gmail.com)
Email suffix as per your email ending. (@gmail.com)

A screenshot of the 'E-mail Notification' configuration page in Jenkins. The page has a dark background. At the top, the title 'E-mail Notification' is displayed. Below it, there are two sections. The first section is labeled 'SMTP server' and contains a text input field with the value 'smtp.gmail.com'. The second section is labeled 'Default user e-mail suffix' followed by a question mark icon, and contains a text input field with the value '@gmail.com'.

Click advanced.
Click ssl checkbox.
Google port is 465 or sometimes you can use 587.
Click use smtp authentication.
User name is email.
Password is the secret key in case of google.


Advanced ^

 Edited


☒ Use SMTP Authentication ?

User Name

seleniumforkaran@gmail.com

 For security when using authentication it is recommended to enable either TLS or SSL

Password

 Concealed

☒ Use SSL ?

☐ Use TLS

SMTP Port ?

465

Reply-To Address

Charset

UTF-8

☒ Test configuration by sending test e-mail

Test e-mail recipient

seleniumforkaran@gmail.com

Test configuration by sending test mail. Enter our email address in “test email recipients”. Click test.

☒ Test configuration by sending test e-mail

Test e-mail recipient

seleniumforkaran@gmail.com

Test configuration

Save Apply

Note-

Email only works on build failures. To customise use extended email notification.

Advanced email notification-

Enter smtp server, port.

Extended E-mail Notification

SMTP server

smtp.gmail.com

SMTP Port

467

Click advanced.


Click add credentials -> select jenkins.

Advanced ^

Credentials

- none -

Jenkins Credentials Provider

 Jenkins

Kind is user name and password.

Enter user name as email.

Jenkins Credentials Provider: Jenkins

Add Credentials

Domain

Global credentials (unrestricted)

Kind

Username with password

Scope ?

Global (Jenkins, nodes, items, all child items, etc)

Username ?

seleniumforkaran@gmail.com

Enter password.

Description - any text.

☐ Treat username as secret ?

Password ?

ID ?

Description ?

new email for always sending email notification

Cancel Add

Click use ssl.

Credentials

seleniumforkaran@gmail.com/***** (new email for always sending email notification)

+ Add

☒ Use SSL

Enter default recipient - email address.

Default Recipients ?

seleniumforkaran@gmail.com

Default subject - enter text. Rest will be in dollar, so they will auto change. These are variables.
Default content - enter text. Rest will be in dollar, so they will auto change.

Default Subject ?

this is my default subject -- \$PROJECT_NAME - Build # \$BUILD_NUMBER - \$BUILD_STATUS!

Maximum Attachment Size ?

-1

Default Content ?

\$PROJECT_NAME - Build # \$BUILD_NUMBER - \$BUILD_STATUS:

Check console output at \$BUILD_URL to view the results.

this is my default content.

Click default triggers.

Click always or whenever you want.

Default Triggers ?

☐ Aborted

☒ Always

☐ Before Build

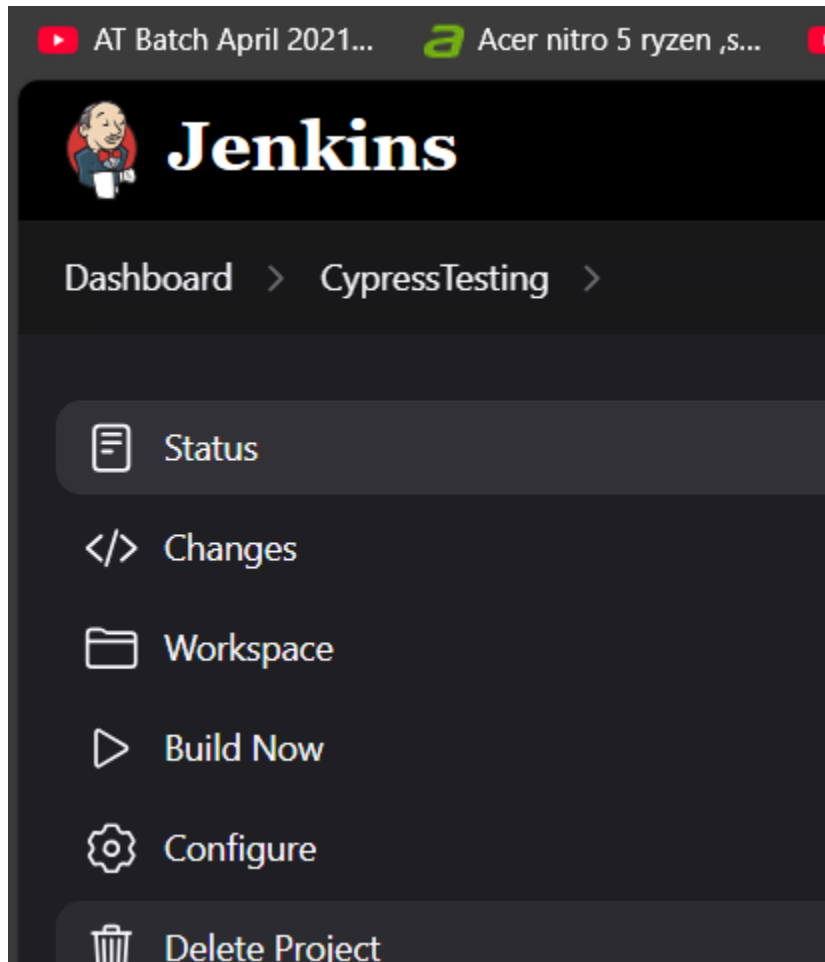
☐ Failure - 1st

Click save.

Save Apply

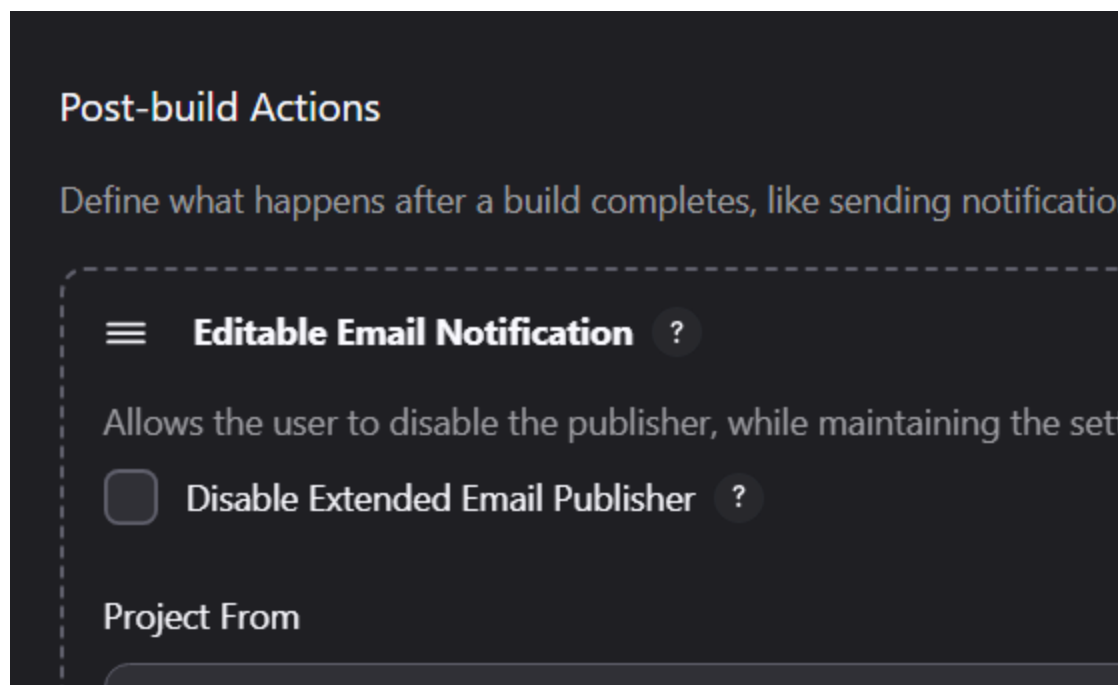
Click on the project name.

click configure.

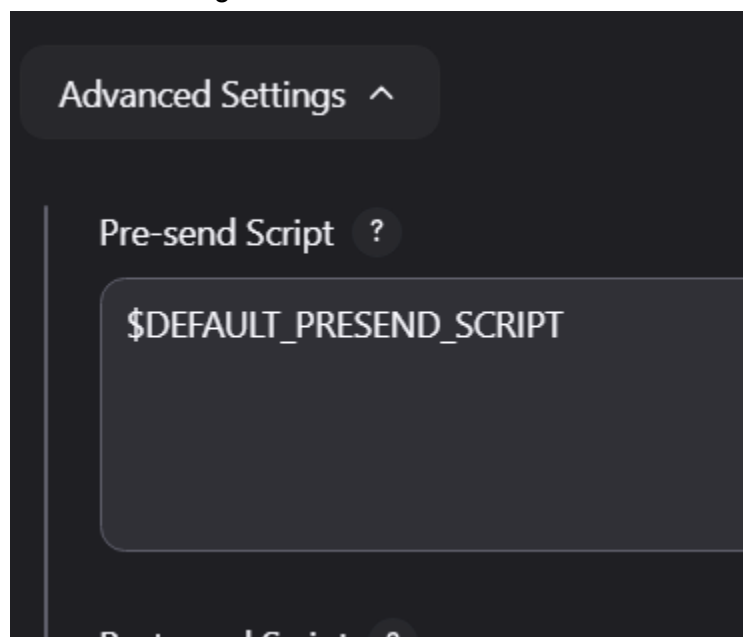


Post build actions.

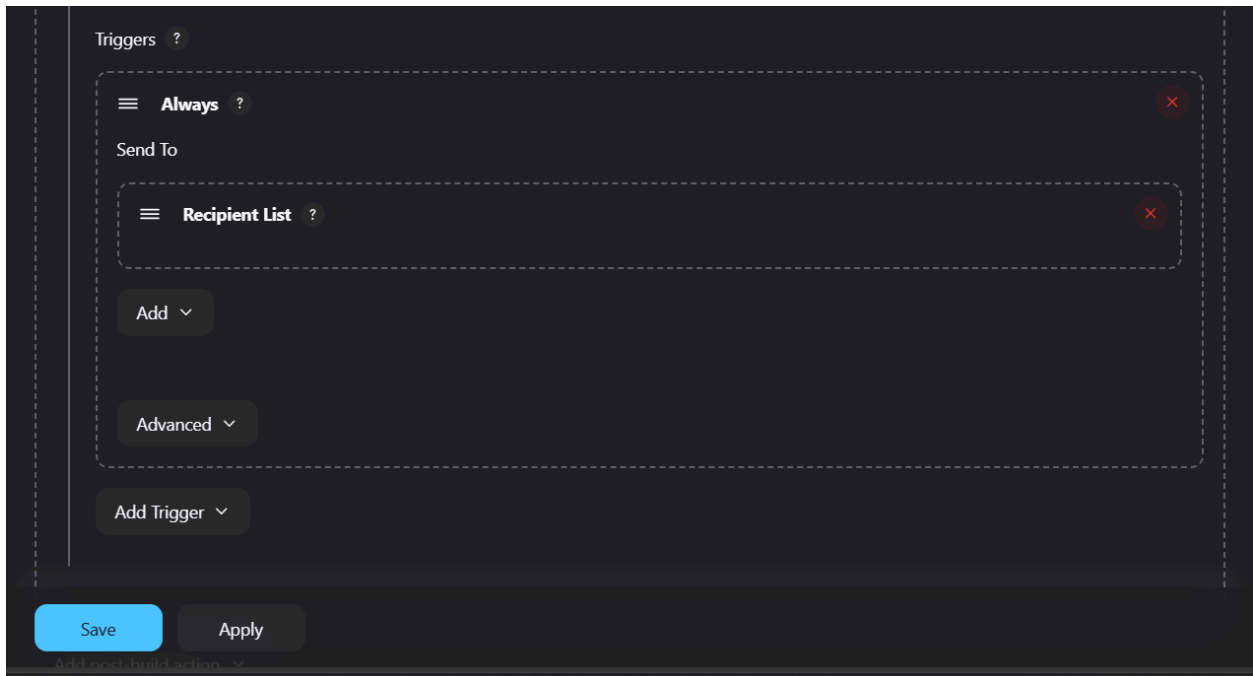
Editable email notification.



Everything populated from our earlier filling. Or you can change it.
Advanced setting.

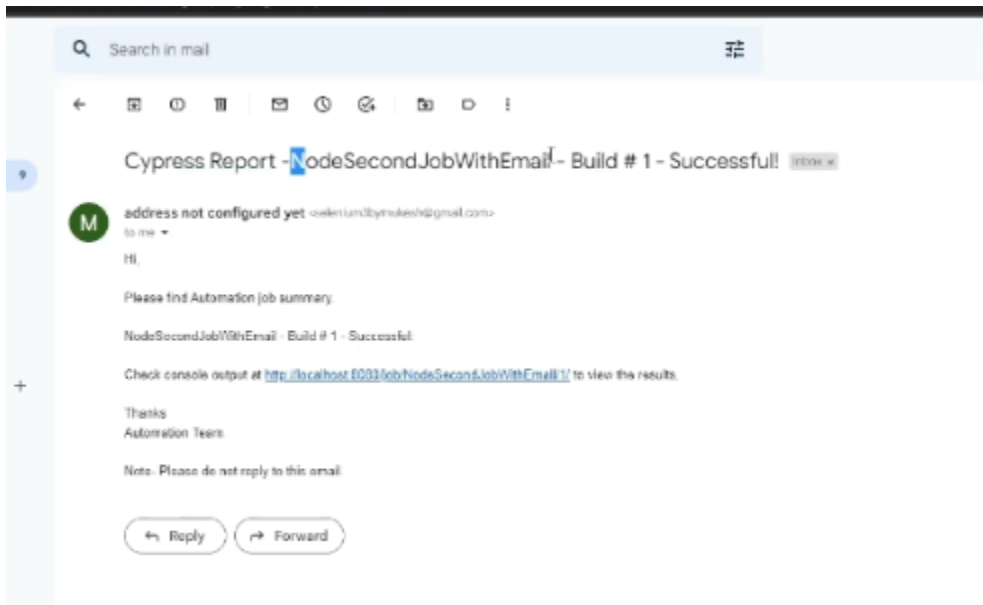


Triggers.
Send to recipient list. Remove developers.
Save.

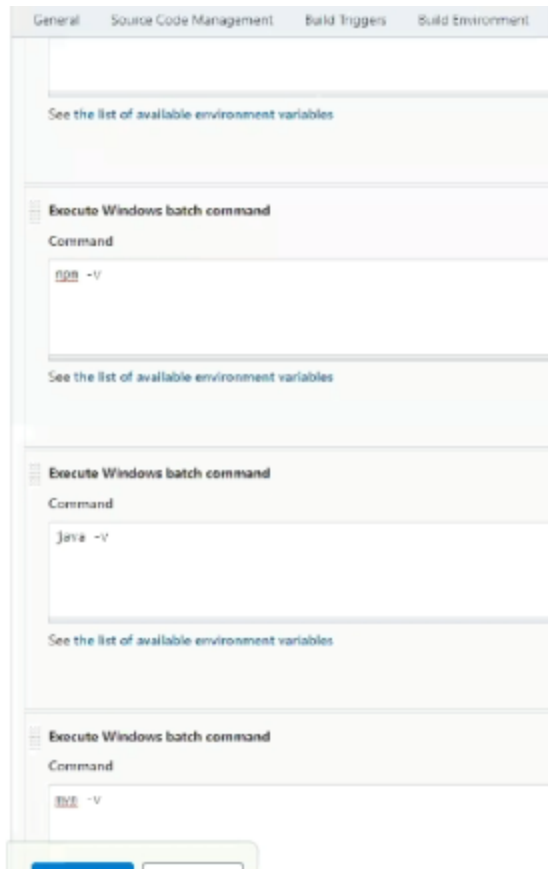


Build now.

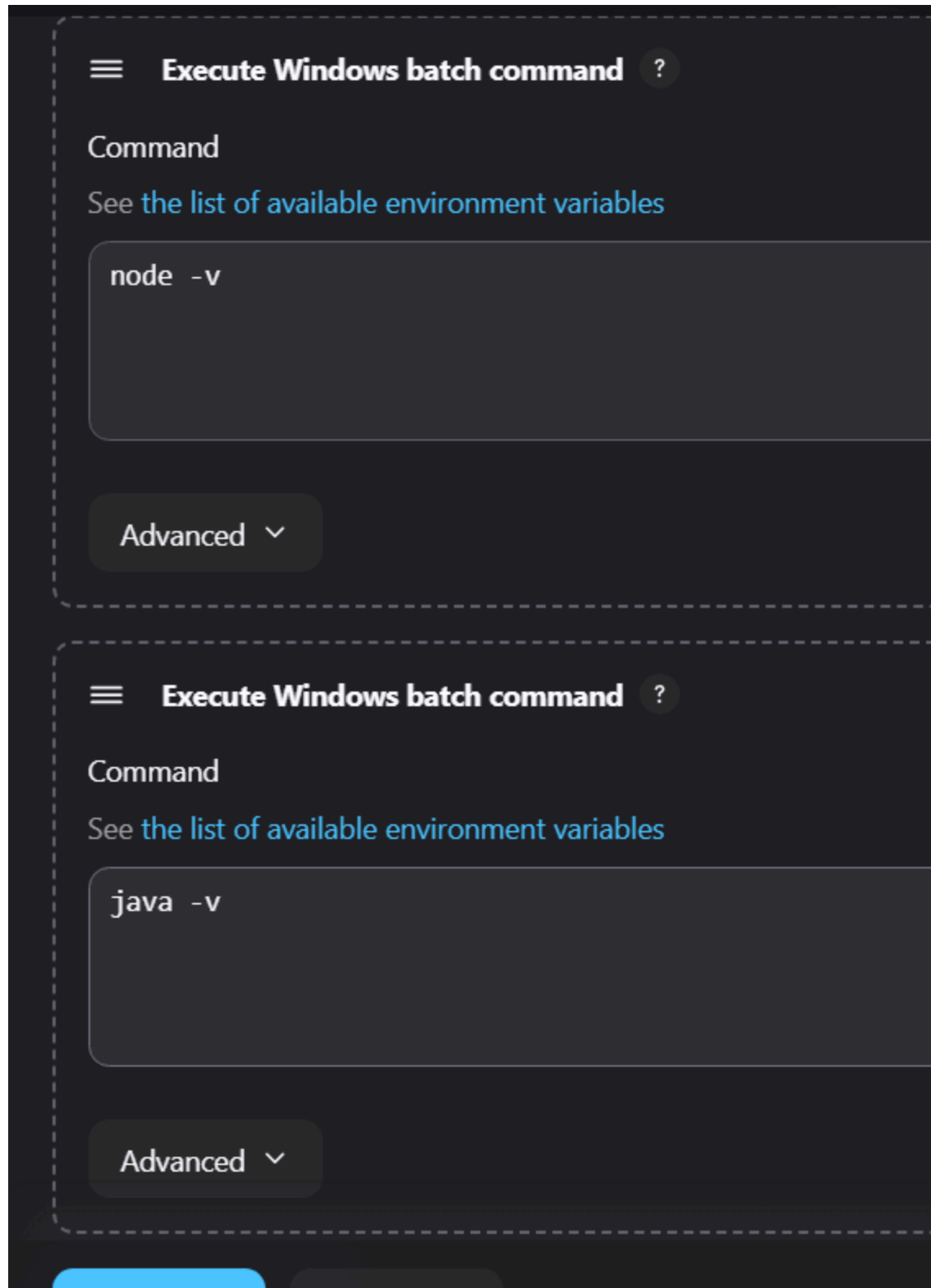
Default content when we dont change-



We can add as many executable commands as we like-




Clear picture -





NOTE -

To change the jenkins password- go to manage jenkins - credentials.Click first link.


 **Jenkins**

Dashboard > Manage Jenkins > Credentials

Credentials

T	P	Store ↓	Domain	ID	Name
		System	(global)	686e5898-f893-452b-b3d0-8b90ea5f83ac	seleniumforkaran@gmail.com/***** (new email for always sending email notification)


Stores scoped to Jenkins

P	Store ↓	Domains
	System	(global)

Icon: S M **L**

Click the link.



System

Domain ↓	Description
 Global credentials (unrestricted)	Credentials that should be available irrespective of domain specification to requirements matching.

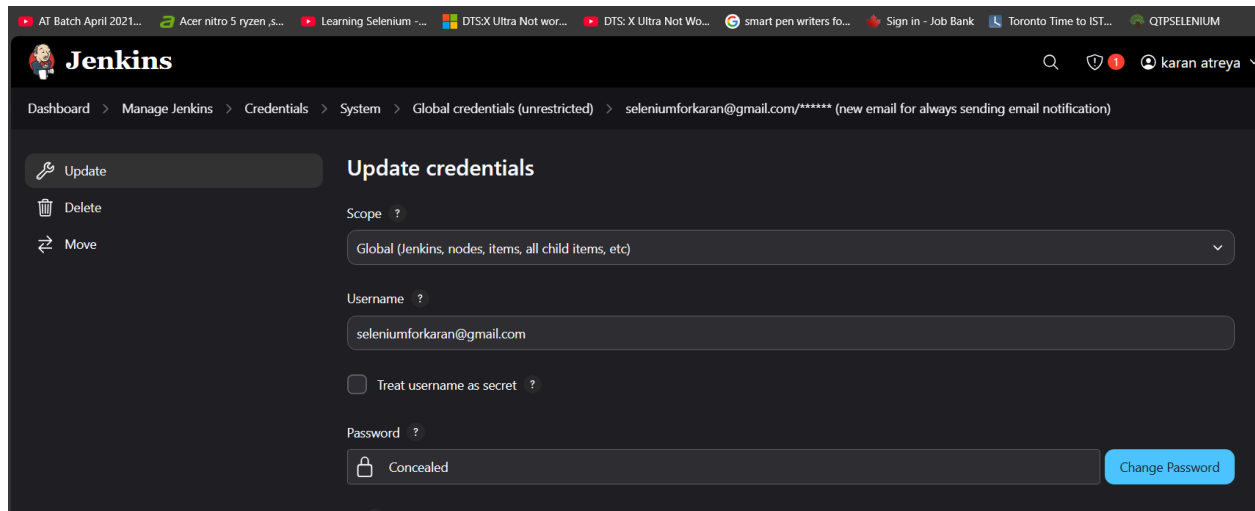
Click screw driver.

Global credentials (unrestricted) [+ Add Credentials](#)

Credentials that should be available irrespective of domain specification to requirements matching.

ID	Name	Kind	Description
 686e5898-f893-452b-b3d0-8b90ea5f83ac	seleniumforkaran@gmail.com/***** (new email for always sending email notification)	Username with password	new email for always sending email notification 

From here can change password.

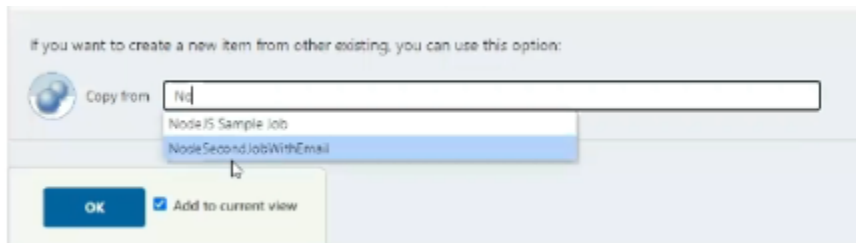


If one command fails, entire job fails.

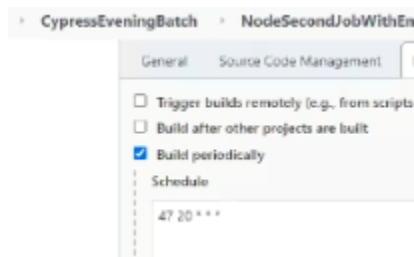
In executable we give the jobs to run like deploy, distribute etc etc.

To create a copy of the freestyle or any project-
On that same screen scroll down.

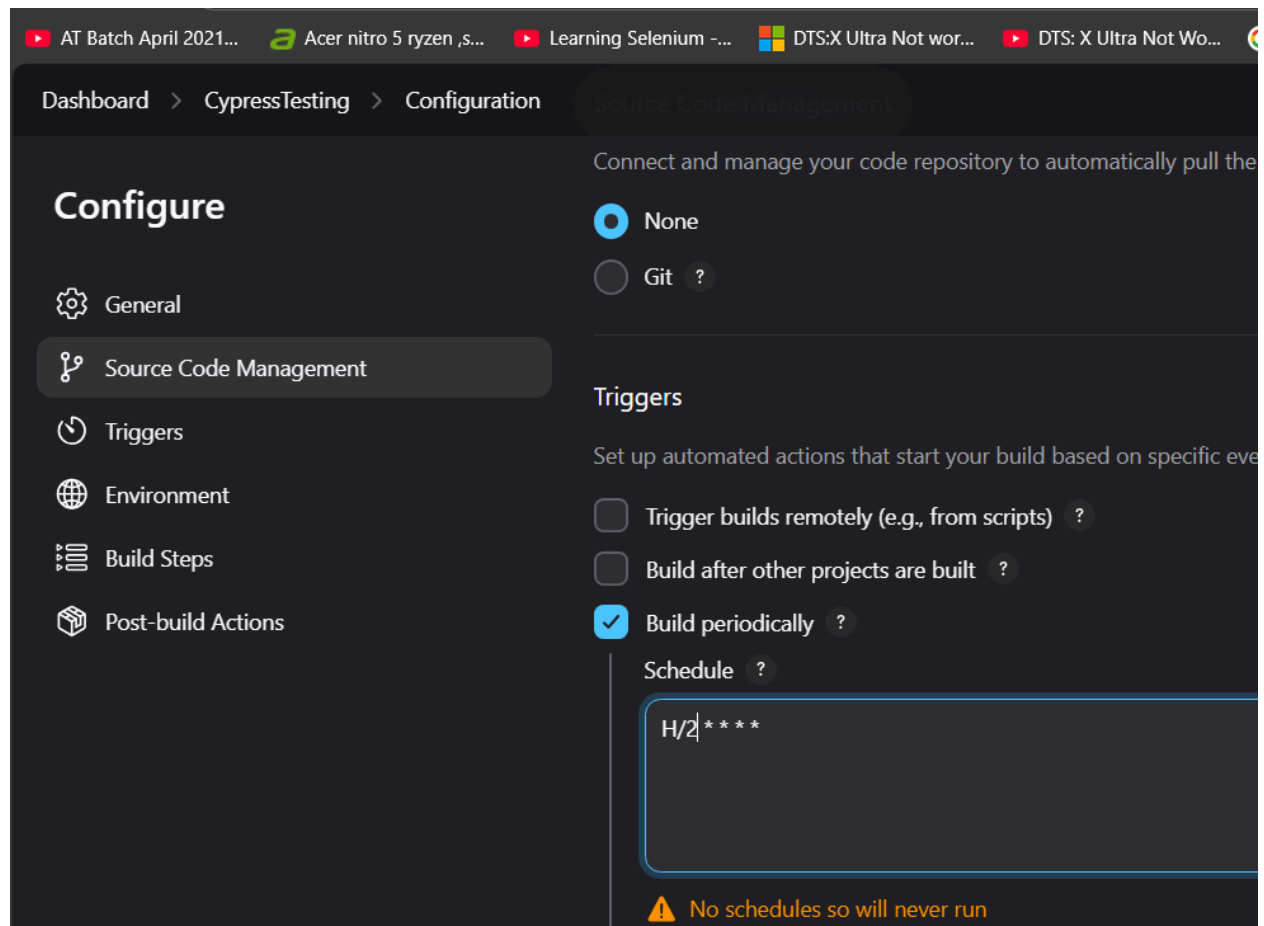
We get the below option:



Build periodically-



Run every two mins example-



How to run the builds nightly or at specific times-
Jenkins runs on some server.
Connected to github.
Set cron.
When time comes then run the git code.