

Deploy WAR to Tomcat Server (Manual Steps)

CLI & GUI

Agenda

- -> AWS Cloud (Ec2 service)
- -> Operating system (ubuntu)
- -> Github
- -> Maven
- -> Tomcat Server
- -> WinSCP

Step :- 1

The screenshot shows the AWS Console Home page. In the top left, there's a 'Recently visited' section with a red box around the 'EC2' icon. Other items in this section include Lightsail, Route 53, S3, CloudFormation, CodePipeline, and IAM. Below this is a 'View all services' button. To the right is the 'Applications' section, which is currently empty. At the bottom of the page, there are links for 'Welcome to AWS', 'AWS Health', and 'Cost and usage'. The footer contains standard links like CloudShell, Feedback, and various AWS service icons.

Console Home | Console Home X LinkedIn Feed | LinkedIn + ap-northeast-2.console.aws.amazon.com/console/home?region=ap-northeast-2

For quick access, place your bookmarks here on the bookmarks bar: [Import bookmarks now...](#)

AWS Services Search [Alt+S] Reset to default layout + Add widgets

Console Home

Recently visited

- EC2
- Billing and Cost Management
- Lightsail
- Route 53
- S3
- CloudFormation
- CodePipeline
- IAM

View all services

Applications (0)

Region: Asia Pacific (Seoul)

Create application

No applications

Get started by creating an application to view your application cost, security findings, and metrics all in one place.

Create application

Go to myApplications

Welcome to AWS

AWS Health

Cost and usage

CloudShell Feedback © 2024; Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Nifty midcap +1.04%

ENG IN ID 14:31 26-03-2024

Screenshot of the AWS EC2 Dashboard (ap-northeast-2) showing the Resources section and various service links.

The Resources section displays the following summary:

Instances (running)	0	Auto Scaling Groups	0	Dedicated Hosts	0
Elastic IPs	0	Instances	3	Key pairs	1
Load balancers	0	Placement groups	0	Security groups	2
Snapshots	0	Volumes	3		

The Launch instance section features a prominent orange "Launch instance" button, which is highlighted with a red rectangular box.

Note: Your instances will launch in the Asia Pacific (Seoul) Region

Service health status: This service is operating normally.

EC2 Free Tier offers for all AWS Regions are listed on the right.

Account attributes include Default VPC (vpc-09ec54bf45bf99881), Settings (Data protection and security, Zones, EC2 Serial Console, Default credit specification, Console experiments), and Explore AWS.

Bottom navigation bar includes links for EC2 Global View, Events, Instances, Images, Elastic Block Store, and more, along with a search bar and various AWS service icons.

Footer information: Nifty midcap +104%, ENG IN, 14:31, 26-03-2024, and a signature for Bilal khan.



Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name

webapp

Add additional tags

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below



Search our full catalog including 1000s of application and OS images



An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Quick Start



[Browse more AMIs](#)

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type

Free tier eligible

ami-0d3d9b94632ba1e57 (64-bit (x86)) / ami-0766e29df43958ce9 (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs



Description

Canonical Ubuntu 20.04 LTS amd64 focal image build on 2021-02-28

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▼ Network settings Info

[Edit](#)

Network Info

vpc-09ec34bf45bf99881

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

We'll create a new security group called 'launch-wizard-2' with the following rules:

Allow SSH traffic from
Helps you connect to your instance

Anywhere
0.0.0.0/0

Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server



Inbound Security Group Rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)

Remove

Type Info	Protocol Info	Port range Info
ssh ▾	TCP	22
Source type Info	Source Info	Description - optional Info
Anywhere ▾	<input type="text" value="Add CIDR, prefix list or security"/> 0.0.0.0/0 X	e.g. SSH for admin desktop

▼ Security group rule 2 (TCP, 8080, 0.0.0.0/0)

Remove

Type Info	Protocol Info	Port range Info
Custom TCP ▾	TCP	8080
Source type Info	Source Info	Description - optional Info
Anywhere ▾	<input type="text" value="Add CIDR, prefix list or security"/> 0.0.0.0/0 X	e.g. SSH for admin desktop

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only. X

aws Services Search [Alt+S]

Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type Info ssh Protocol Info TCP Port range Info 22 Remove

Source type Info Anywhere Source Info Description - optional Info e.g. SSH for admin desktop Add CIDR, prefix list or security 0.0.0.0/0 X

Security group rule 2 (TCP, 8080, 0.0.0.0/0)

Type Info Custom TCP Protocol Info TCP Port range Info 8080 Remove

Source type Info Anywhere Source Info Description - optional Info e.g. SSH for admin desktop Add CIDR, prefix list or security 0.0.0.0/0 X

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only. X

Add security group rule

Summary

Number of instances Info 1

Software Image (AMI) Canonical, Ubuntu, 20.04 LTS, ...read more ami-0d3d9b94632ba1e57

Virtual server type (instance type) t2.micro

Firewall (security group) New security group

Storage (volumes) 1 volume(s) - 8 GiB

ⓘ Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which you launch)

Cancel Launch instance

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Connect to your instance i-05cbb9b96a3a18f19 (webapp) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID

i-05cbb9b96a3a18f19 (webapp)

Connection Type

Connect using EC2 Instance Connect

Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

Connect using EC2 Instance Connect Endpoint

Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address

52.79.242.40

Username

Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

ubuntu



Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel

Connect



Services

Search

[Alt+S]

Memory usage: 21%

IPv4 address for eth0: 172.31.39.73

Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.

See <https://ubuntu.com/esm> or run: sudo pro status

The list of available updates is more than a week old.

To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

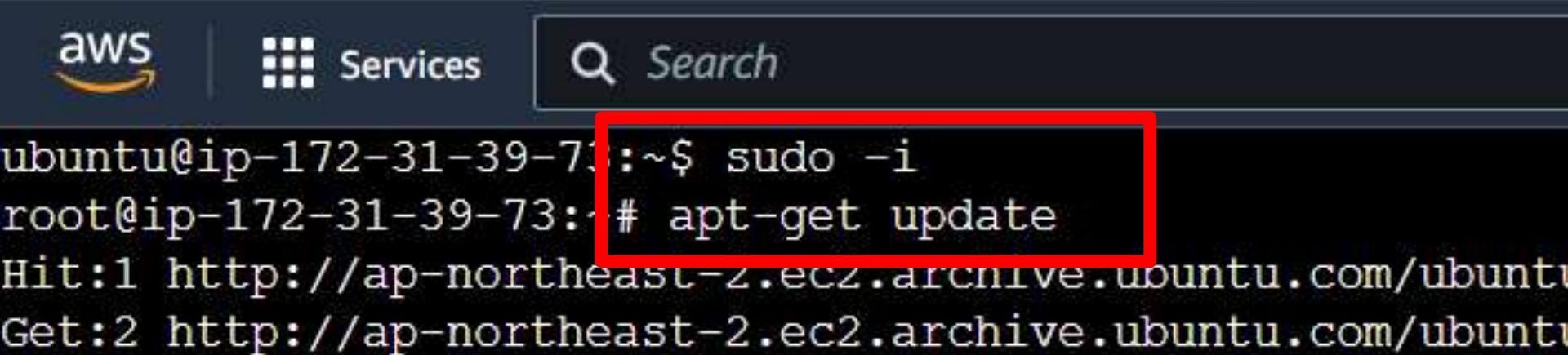
ubuntu@ip-172-31-39-73:~\$

i-05cbb9b96a3a18f19 (webapp)

Public IPs: 52.79.242.40 Private IPs: 172.31.39.73

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For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now](#)



The screenshot shows a terminal window with the AWS Lambda logo and services menu at the top. A search bar is also present. The terminal itself displays a root shell session on an Ubuntu instance. The commands entered are:

```
ubuntu@ip-172-31-39-73:~$ sudo -i  
root@ip-172-31-39-73:# apt-get update
```

The command `apt-get update` is highlighted with a red rectangular box.

For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)



1bilu

[Overview](#)[Repositories 14](#)[Projects](#)[Packages](#)[Stars](#)[jenkins_files](#) PublicShell Updated 15 hours ago[spring_boot-war-example](#) PublicJava Updated 4 days ago[check](#) PublicHTML Updated last week[terraform](#) Public

codes

HCL Updated last month

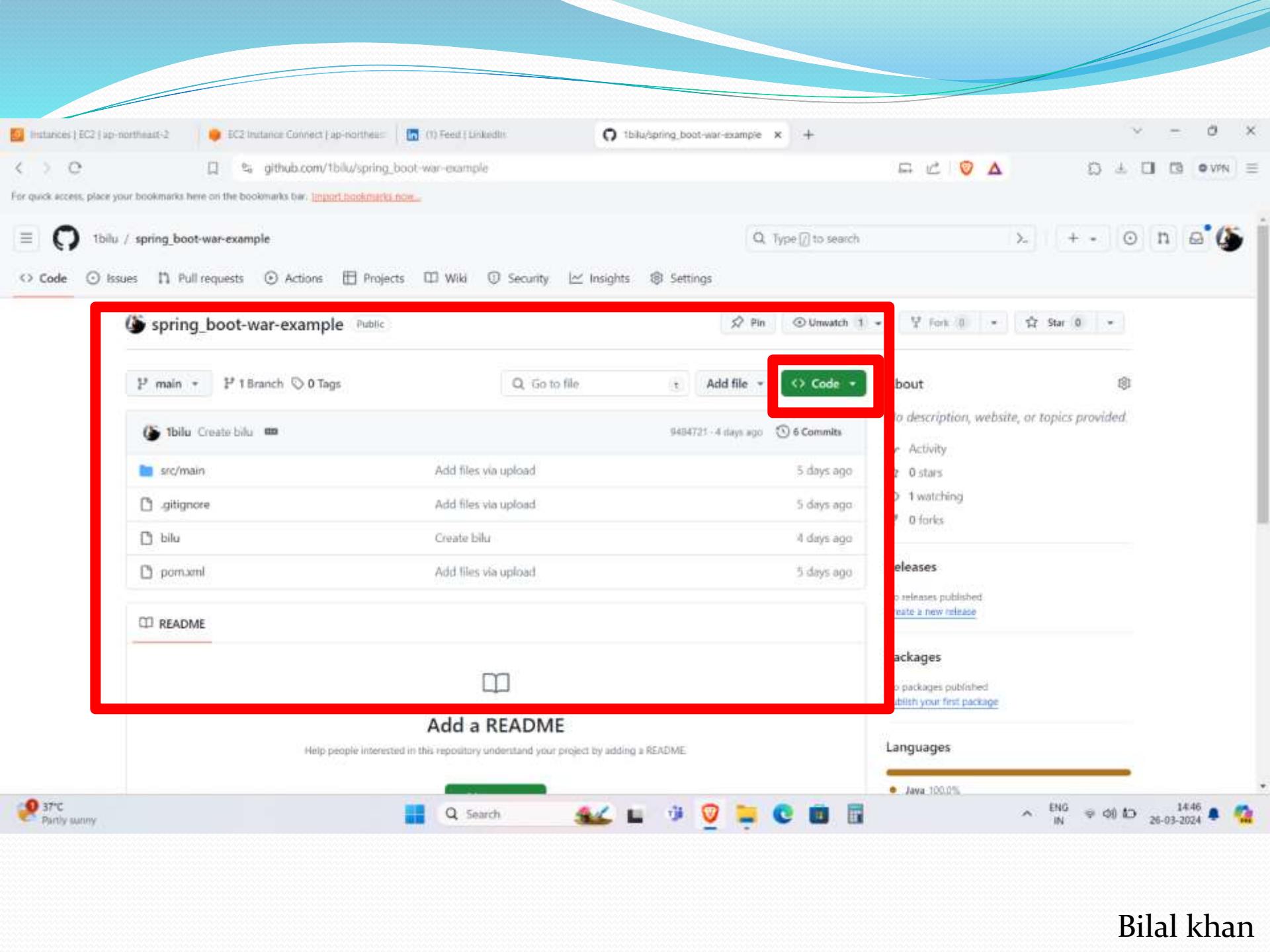
dominic

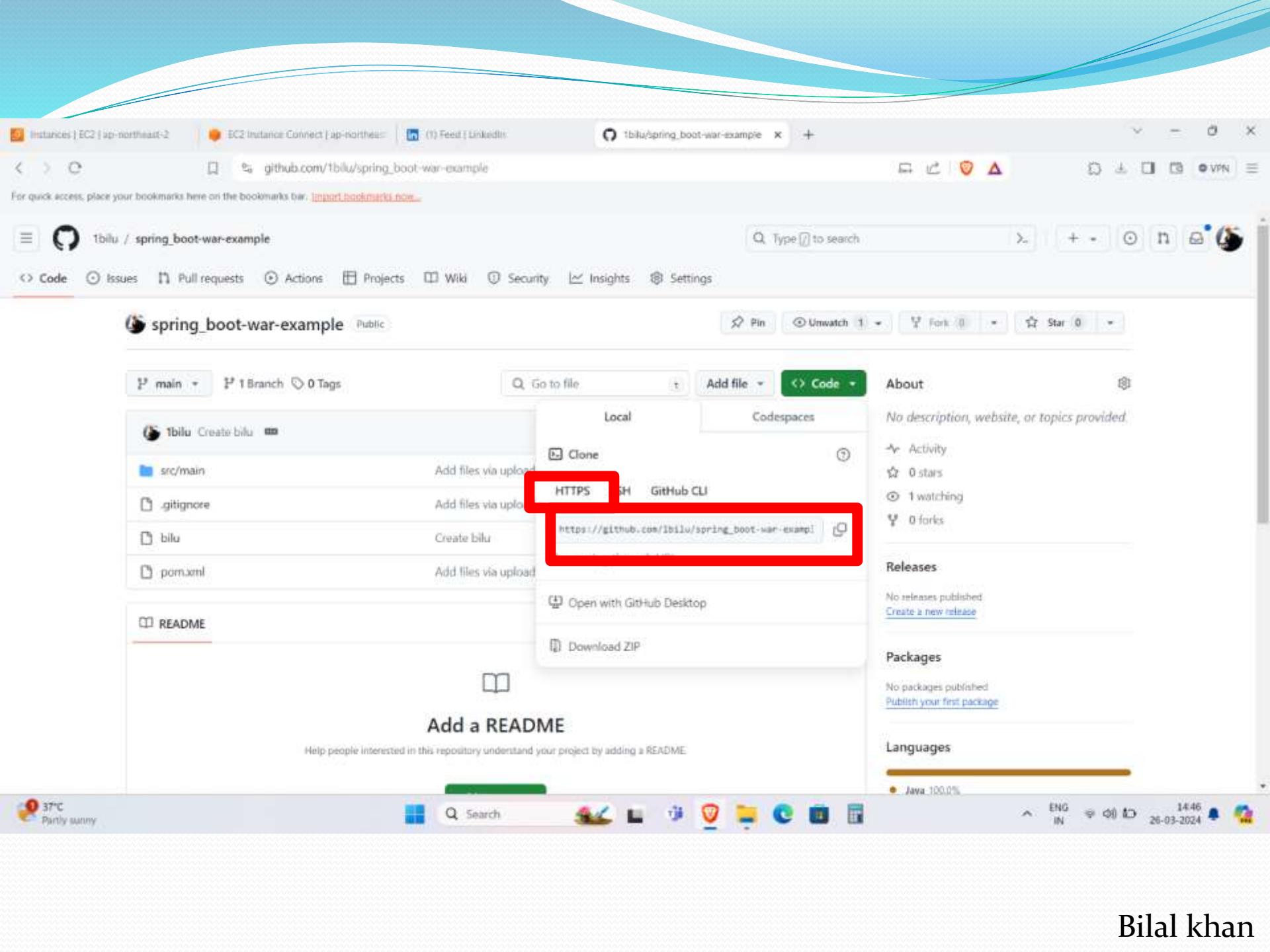
1bilu

[Edit profile](#)0 followers · 3 following📍 JAIPURin in/bilal-khan-244652213

Bilal khan

Step :- 2





Clone the war file from Git repository

```
Fetched 30.6 MB in 6s (4917 kB/s)
Reading package lists. . Done
root@ip-172-31-39-73:~ git clone https://github.com/1bilal/spring_boot-war-example.git
i-05cbb9b96a3a18f19 (webapp)

PublicIPs: 52.79.242.40 PrivateIPs: 172.31.39.73
```

After cloning the war you can see on your terminal created a repository spring_boot-war-example

```
root@ap-172-31-39-73:~# git clone https://github.com/1bilu/spring_boot-war-example.git
Cloning into 'spring_boot-war-example'...
remote: Enumerating objects: 26, done.
remote: Counting objects: 100% (26/26), done.
remote: Compressing objects: 100% (17/17), done.
remote: Total 26 (delta 2), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (26/26), 6.80 KiB | 994.00 KiB/s, done.
root@ap-172-31-39-73:~# ls
snap  spring_boot-war-example
root@ap-172-31-39-73:~# cd s
```

After complete step 2 you can go step 3

Step3 :->Install maven

Step 3

Services

Search

```
root@ip-172-31-39-73:~# apt-get install maven
Reading package lists... Done
Building dependency tree
Reading state information... Done
0 upgraded, 50 newly installed, 0 to remove and 18 no
Need to get 50.2 MB of archives.
After this operation, 196 MB of additional disk space
Do you want to continue? [Y/n] y
Get:1 http://ap-northeast-2.ec2.archive.ubuntu.com/ub
Get:2 http://ap-northeast-2.ec2.archive.ubuntu.com/ub
root@ip-172-31-39-73:~# mvn --version
Apache Maven 3.6.3
Maven home: /usr/share/maven
Java version: 11.0.22, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "5.15.0-1055-aws", arch: "amd64", family: "unix"
root@ip-172-31-39-73:~#
```

```
root@ip-172-31-39-73:~# ls
snap  spring_boot-war-example
root@ip-172-31-39-73:~# ls
snap  spring_boot-war-example
root@ip-172-31-39-73:~# cd spring_boot-war-example/
root@ip-172-31-39-73:~/spring_boot-war-example# ls
pom.xml  pom.xml  src
root@ip-172-31-39-73:~/spring_boot-war-example# mvn test
[INFO] Scanning for projects...
Downloading from central: https://repo.maven.apache.org/maven2
ASE.pom
Downloaded from central: https://repo.maven.apache.org/maven2
[INFO]
[INFO] -----< com.springnow.example:hello-world >-----
[INFO] Building hello-world 0.0.1-SNAPSHOT
[INFO] -----[ war 1-----]
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework
pom
```

Testing before build

When install maven then you can go in side repo and use mnv test command

Afetr that you can see there is create a target repository

Build



Use mvn install command



It is generate a war file

/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/thoughtworks/qdo
[INFO] No tests to run
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 15.107 s
[INFO] Finished at: 2024-05-26T09:20:31Z
[INFO] -----
root@ip-172-31-39-73:~/spring_boot-war-example# ls
biliu pom.xml src target
root@ip-172-31-39-73:~/spring_boot-war-example#

The screenshot shows a terminal window titled 'aws' with several red boxes highlighting specific command segments:

- A red box surrounds the command `cd target/`.
- A red box surrounds the directory listing output: `classes generated-sources maven-status`.
- A red box surrounds the command `mvn install`.
- A red box surrounds the Maven project identifier `com.Springnow.Champ:hello-world >`.
- A red box surrounds the message `Building hello-world 0.0.1-SNAPSHOT`.
- A red box surrounds the artifact classifier `[war]`.

Below the terminal window, there is a repeating log entry:
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/p
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/p
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/p
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/p

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/p  
[INFO] Installing /root/spring_boot-war-example/target/hello-world-0.0.1-SNAPSHOT.w  
orld-0.0.1-SNAPSHOT.war  
[INFO] Installing /root/spring_boot-war-example/pom.xml to /root/.m2/repository/com/sprin  
ghow/example/hello-world/0.0.1-SNAPSHOT/hello-world-0.0.1-SNAPSHOT.pom  
[INFO] -----  
[INFO] BUILD SUCCESS  
[INFO] -----  
[INFO] Total time: 11.497 s  
[INFO] Finished at: 2024-03-26T09:27:10Z  
[INFO] -----  
root@ip-172-31-39-73:~/spring_boot-war-example#
```

i-05cbb9b96a3a18f19 (webapp)

PublicIPs: 52.79.242.40 PrivateIPs: 172.31.39.73

```
world-0.0.1-SNAPSHOT.war  
[INFO] Installing /root/spring_boot-war-example/pom.xml to /root/.m2/repository/com/sprin  
ghow/example/hello-world/0.0.1-SNAPSHOT/hello-world-0.0.1-SNAPSHOT.pom  
[INFO] -----  
[INFO] BUILD SUCCESS  
[INFO] -----  
[INFO] Total time: 11.497 s  
[INFO] Finished at: 2024-03-26T09:27:10Z  
[INFO] -----  
root@ip-172-31-39-73:~/spring_boot-war-example# ls  
silu pom.xml src target  
root@ip-172-31-39-73:~/spring_boot-war-example# cd target  
root@ip-172-31-39-73:~/spring_boot-war-example/target# ls  
classes generated-sources hello-world-0.0.1-SNAPSHOT hello-world-0.0.1-SNAPSHOT.war hello-world-0.0.1-SNAPSHOT.war.original maven-archiver maven-status  
root@ip-172-31-39-73:~/spring_boot-war-example/target#
```

i-05cbb9b96a3a18f19 (webapp)

PublicIPs: 52.79.242.40 PrivateIPs: 172.31.39.73

After build success go step 4

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Step : 4

Install tomcat server

Use command



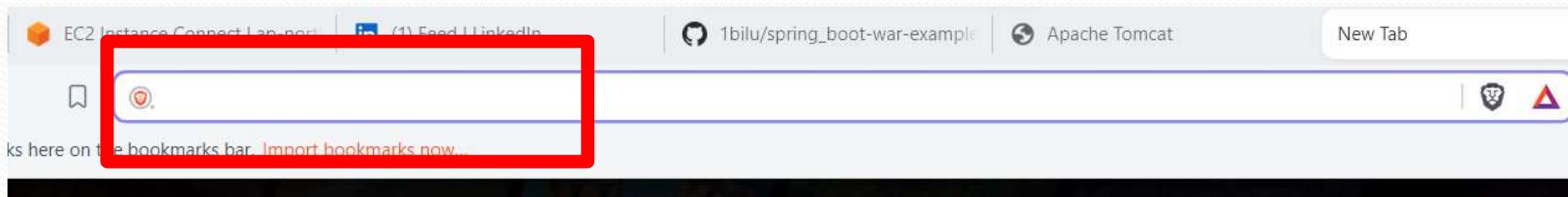
apt install tomcat9

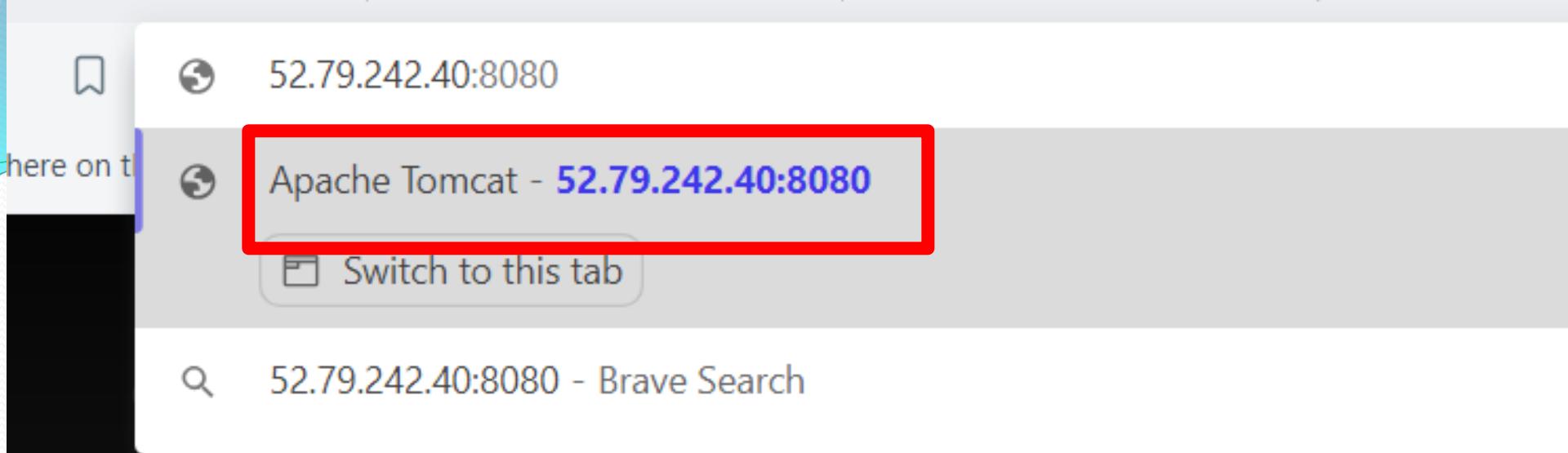
- After install tomcat then you can copy the public IP then go browser and then past IP in the search bar
- You can see the default page of tomcat

```
root@ip-172-31-39-73:~# apt install tomcat9
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libapr1 libeclipse-jdt-core-java libtcnative-1 libtomcat9-java tomcat9-common
Suggested packages:
  tomcat9-admin tomcat9-docs tomcat9-examples tomcat9-user
The following NEW packages will be installed:
  libapr1 libeclipse-jdt-core-java libtcnative-1 libtomcat9-java tomcat9 tomcat9-common
0 upgraded, 6 newly installed, 0 to remove and 18 not upgraded.
Need to get 12.4 MB of archives.
```

i-05cbb9b96a3a18f19 (webapp)

Public IPs: 52.79.242.40 Private IPs: 172.31.39.73







It works !

If you're seeing this page via a web browser, it means you've setup Tomcat successfully. Congratulations!

This is the default Tomcat home page. It can be found on the local filesystem at: /var/lib/tomcat9/webapps/ROOT/index.html

Tomcat veterans might be pleased to learn that this system instance of Tomcat is installed with CATALINA_HOME in /usr/share/tomcat9 and CATALINA_BASE in /var/lib/tomcat9, following the rules from /usr/share/doc/tomcat9-common/RUNNING.txt.gz.

You might consider installing the following packages, if you haven't already done so:

tomcat9-docs: This package installs a web application that allows to browse the Tomcat 9 documentation locally. Once installed, you can access it by clicking [here](#).

tomcat9-examples: This package installs a web application that allows to access the Tomcat 9 Servlet and JSP examples. Once installed, you can access it by clicking [here](#).

tomcat9-admin: This package installs two web applications that can help managing this Tomcat instance. Once installed, you can access the [manager webapp](#) and the [host-manager webapp](#).

NOTE: For security reasons, using the manager webapp is restricted to users with role "manager-gui". The host-manager webapp is restricted to users with role "admin-gui". Users are defined in /etc/tomcat9/tomcat-users.xml.



Step: 5

Deploy war file

-> Go in the /spring_boot-war-example /target/
Copy file

hello-world-0.0.1-SNAPSHOT.war



Past here /var/lib/tomcat9/webapps

Use this command

Cp ./target/hello-world-0.0.1-SNAPSHOT.war /var/lib/tomcat9/webapps/myfile.war

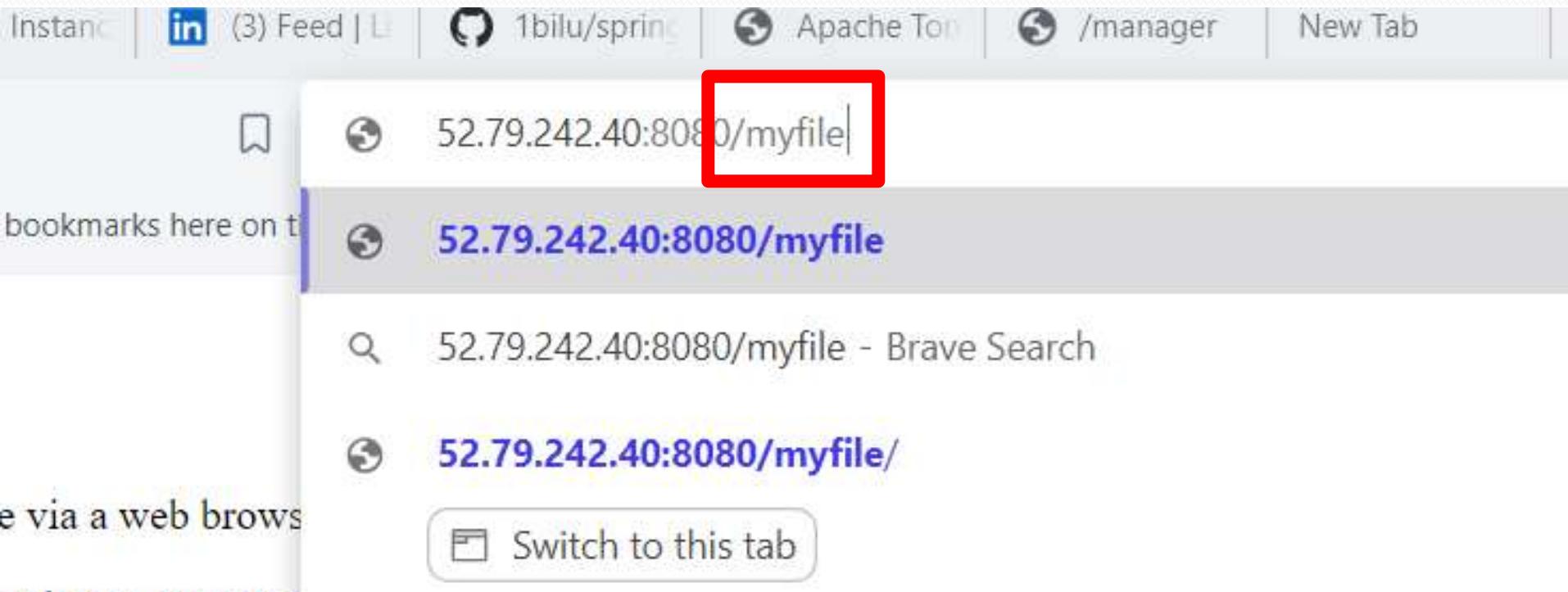
```
root@ip-172-31-39-73:/var/lib/tomcat9/conf# service tomcat9 restart
root@ip-172-31-39-73:/var/lib/tomcat9/conf# cd
root@ip-172-31-39-73:~# ls
snap  spring_boot-war-example
root@ip-172-31-39-73:~# cd spring_boot-war-example/
root@ip-172-31-39-73:~/spring_boot-war-example# ls
pom.xml  src  target
root@ip-172-31-39-73:~/spring_boot-war-example# cd target/
root@ip-172-31-39-73:~/spring_boot-war-example/target# ls
classes  generated-sources  hello-world-0.0.1-SNAPSHOT  hello-world-0.0.1-SNAPSHOT.war  hello-world-0.0.1-SNAPSHOT.war.original
root@ip-172-31-39-73:~/spring_boot-war-example/target# cp ./hello-world-0.0.1-SNAPSHOT.war /var/lib/tomcat9/webapps/myfile.war
root@ip-172-31-39-73:~/spring_boot-war-example/target# cd /var/lib/tomcat9/webapps/
root@ip-172-31-39-73:/var/lib/tomcat9/webapps# ls
ROOT  myfile  myfile.war
root@ip-172-31-39-73:/var/lib/tomcat9/webapps#
```

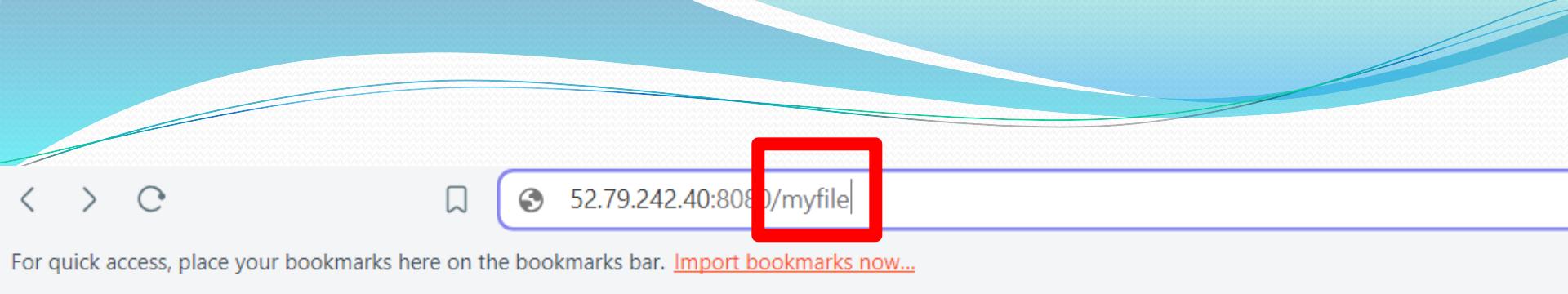
```
root@ip-172-31-39-73:~/spring_boot-war-example/target# cd /var/lib/tomcat9/webapps/
root@ip-172-31-39-73:/var/lib/tomcat9/webapps# ls
ROOT  myfile  myfile.war
root@ip-172-31-39-73:/var/lib/tomcat9/webapps# sudo -i
root@ip-172-31-39-73:~# su - ubuntu
ubuntu@ip-172-31-39-73:~$ ls
ubuntu@ip-172-31-39-73:~$
```

i-05ccb9b96a3a18f19 (webapp)

Public IPs: 52.79.242.40 Private IPs: 172.31.39.73

Bilal khan





It works !

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tomcat9-admin: This package installs two web applications that can help managing this Tomcat instance. Once installed, you can acc

NOTE: For security reasons, using the manager webapp is restricted to users with role "manager-gui". The host-manager webapp is re

 Instances |  EC2 Instances |  (3) Feed |  1bilu/spring |  Apache Tomcat |  /manager | New Tab



Not secure | 52.79.242.40:8080/myfile/

For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

hello i am bilal khan

Bilal khan

Step:6



It works !

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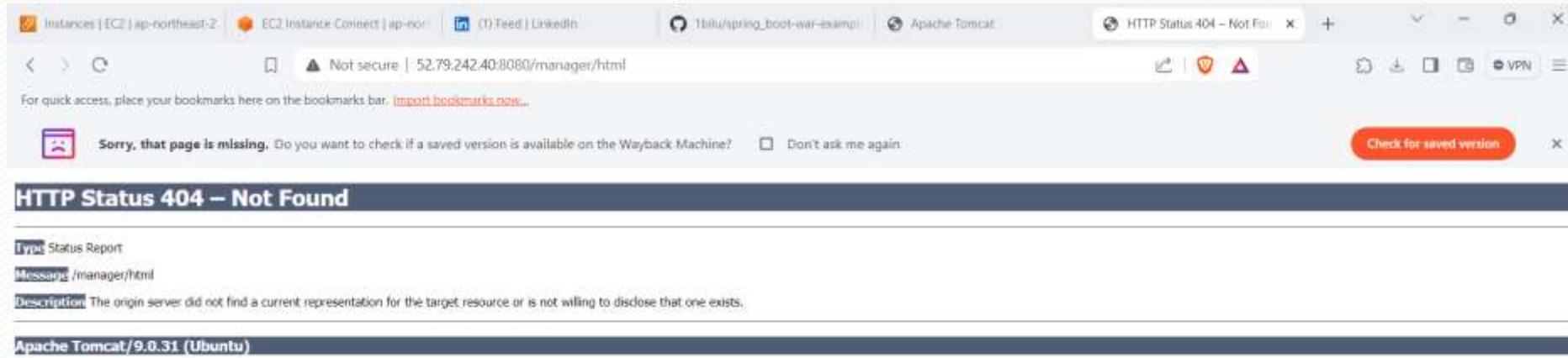
tomcat9-examples: This package installs a web application that allows to access the Tomcat 9 Servlet and JSP examples. Once installed, you can access it by clicking [here](#).

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NOTE: For security reasons, using the manager webapp is restricted to users with role "manager-gui". The host-manager webapp is restricted to users with role "admin-gui". Users are defined in /etc/tomcat9/tomcat-users.xml.

If you want to
access the
admin panel
use blow steps

Manage webapps



If admin Not working then
after you install it first on
your terminal use blow step

```
aws Services [Alt+S] X
root@ip-172-31-39-73: ~# apt install tomcat9-admin
Reading package lists .. Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  tomcat9-admin
0 upgraded, 1 newly installed, 0 to remove and 18 not upgraded.
Need to get 24.6 kB of archives.
After this operation, 190 kB of additional disk space will be used.
Get:1 http://ap-northeast-2.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 tomcat9-admin all 9.0.31-1ubuntu0.4 [24.6 kB]
Fetched 24.6 kB in 1s (46.2 kB/s)
Selecting previously unselected package tomcat9-admin.
(Reading database ... 63908 files and directories currently installed.)
Preparing to unpack .../tomcat9-admin_9.0.31-1ubuntu0.4_all.deb ...
Unpacking tomcat9-admin (9.0.31-1ubuntu0.4) ...
Setting up tomcat9-admin (9.0.31-1ubuntu0.4) ...
root@ip-172-31-39-73:~#
```



It works !

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This is the default Tomcat home page. It can be found on the local filesystem at: /var/lib/tomcat9/webapps/ROOT/index.html

Tomcat veterans might be pleased to learn that this system instance of Tomcat is installed with CATALINA_HOME in /usr/share/tomcat9 and CATALINA_BASE in /var/lib/tomcat9, following the rules from /usr/share/doc/tomcat9-common/RUNNING.txt.gz.

You might consider installing the following packages, if you haven't already done so:

tomcat9-docs: This package installs a web application that allows to browse the Tomcat 9 documentation locally. Once installed, you can access it by clicking [here](#).

tomcat9-examples: This package installs a web application that allows to access the Tomcat 9 Servlet and JSP examples. Once installed, you can access it by clicking [here](#).

tomcat9-admin: This package installs two web applications that can help managing this Tomcat instance. Once installed, you can access the [manager webapp](#) and the [host-manager webapp](#).

NOTE: For security reasons, using the manager webapp is restricted to users with role "manager-gui". The host-manager webapp is restricted to users with role "admin-gui". Users are defined in /etc/tomcat9/tomcat-users.xml.

Sign in

http://52.79.242.40:8080

Your connection to this site is not private

Username

Password

Sign in

Cancel

Not secure | 3.110.225.194:8080/manager/html

For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

401 Unauthorized

You are not authorized to view this page. If you have not changed any configuration files, please examine the file `conf/tomcat-users.xml` in our installation. That file must contain the credentials to let you use this webapp.

For example, to add the `manager-gui` role to a user named `tomcat` with a password of `s3cret`, add the following to the config file listed above:

```
role rolename="manager-gui"/>
user username="tomcat" password="s3cret" roles="manager-gui"/>
```

The roles which were changed from the single `manager` role to the following roles. You will need to assign the role(s) required for the functionality you wish to access.

- `manager-gui` - allows access to the HTML GUI and the status pages
- `manager-script` - allows access to the text interface and the status pages
- `manager-jmx` - allows access to the JMX proxy and the status page
- `manager-status` - allows access to the status pages only

The HTML interface is protected against CSRF but the text and JMX interfaces are not. To maintain the CSRF protection:

- Users with the `manager-gui` role should not be granted either the `manager-script` or `manager-jmx` roles.
- If the text or jmx interfaces are accessed through a browser (e.g. for testing - note these interfaces are intended for tools not humans) then the browser must be closed afterwards to terminate the session.

For more information - please see the [Manager App How-To](#).

Copy both the lines written inside the yellow box and paste it in the [conf/tomcat-users.xml](#)

Use blow steps

```
aws | Services | Q Search [Alt+S] | X | ? | Seoul | ●

tomcat9-admin
0 upgraded, 1 newly installed, 0 to remove and 18 not upgraded.
Need to get 24.6 kB of archives.
After this operation, 190 kB of additional disk space will be used.
Get:1 http://ap-northeast-2.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 tomcat9-admin all 9.0.31-1ubuntu0.4 [24.6 kB]
Fetched 24.6 kB in 1s (46.2 kB/s)
Selecting previously unselected package tomcat9-admin.
(Reading database ... 63908 files and directories currently installed.)
Preparing to unpack .../tomcat9-admin_9.0.31-1ubuntu0.4_all.deb ...
Unpacking tomcat9-admin (9.0.31-1ubuntu0.4) ...
Setting up tomcat9-admin (9.0.31-1ubuntu0.4) ...
root@ip-172-31-39-73:~# cd /var/lib/
root@ip-172-31-39-73:/var/lib# ls
AccountsService apt         dbus  grub          logrotate  pam      python    systemd
PackageKit   boltd        dhcp  hibinit-agent  man-db     Plymouth  shim-signed tomcat9
amazon       cloud         dpkg   initramfs-tools misc      polkit-1  snapd    ubuntu-release-upgrader update-manager vim
apport        command-not-found git   landscape    os-prober  private  sudo     ucf      update-notifier
root@ip-172-31-39-73:/var/lib# cd tomcat9/
root@ip-172-31-39-73:/var/lib/tomcat9# ls
conf  lib  logs  policy  webapps
root@ip-172-31-39-73:/var/lib/tomcat9# cd conf
root@ip-172-31-39-73:/var/lib/tomcat9/conf# ls
Catalina catalina.properties context.xml  logging.properties  policy.d  server.xml  tomcat-users.xml  web.xml
root@ip-172-31-39-73:/var/lib/tomcat9/conf# vi tomcat-users.xml
```

Instances | EC2 | ap-northeast-2 EC2 Instance Connect | ap-northeast-2 LinkedIn [fbu/spring_boot-war-example](#) Apache Tomcat 401 Unauthorized + - ×

ap-northeast-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05cbb9b96a3a18f19®ion=ap-northeast-2

For quick access, place your bookmarks here on the bookmarks bar: [import bookmarks now...](#)

AWS Services Search [Alt+S]

```
xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-users.xml"
version="1.0">

<!--
NOTE: By default, no user is included in the "manager-gui" role required
to operate the "/manager/html" web application. If you wish to use this app,
you must define such a user - the username and password are arbitrary. It is
strongly recommended that you do NOT use one of the users in the commented out
section below since they are intended for use with the examples web
application.
-->
<!--
NOTE: The sample user and role entries below are intended for use with the
examples web application. They are wrapped in a comment and thus are ignored
when reading this file. If you wish to configure these users for use with the
examples web application, do not forget to remove the <!... .> that surrounds
them. You will also need to set the passwords to something appropriate.
-->
<!--
<role rolename="tomcat"/>
<role rolename="role1"/>
<user username="tomcat" password="" roles="tomcat"/>
<user username="both" password="" roles="tomcat,role1"/>
<user username="role1" password="" roles="role1"/>
-->
</tomcat-users>
-- INSERT --
```

i-05cbb9b96a3a18f19 (webapp)

Public IPs: 52.79.242.40 Private IPs: 172.31.39.73

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37°C Very high UV ENG IN 13:06 26-03-2024

Instances | EC2 | ap-northeast-2 | EC2 Instance Connect | ap- | LinkedIn | tbitu/spring_boot-war-example | Apache Tomcat | 401 Unauthorized | + | - | X

ap-northeast-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-05cbb9b96a3a18f19&... | 🔍 | 🌐 | 🛡️ | ⚙️ | ☰ | VPN | Ⓜ

For quick access, place your bookmarks here on the bookmarks bar: [Import bookmarks now...](#)

AWS Services Search [Alt+S]

```
<!--  
NOTE: By default, no user is included in the "manager-gui" role required  
to operate the "/manager/html" web application. If you wish to use this app,  
you must define such a user - the username and password are arbitrary. It is  
strongly recommended that you do NOT use one of the users in the commented out  
section below since they are intended for use with the examples web  
application.  
-->  
<!--  
NOTE: The sample user and role entries below are intended for use with the  
examples web application. They are wrapped in a comment and thus are ignored  
when reading this file. If you wish to configure these users for use with the  
examples web application, do not forget to remove the <!... ..> that surrounds  
them. You will also need to set the passwords to something appropriate.  
-->  
<!--  
<role rolename="tomcat"/>  
<role rolename="role1"/>  
<user username="tomcat" password="" roles="tomcat"/>  
<user username="both" password="" roles="tomcat,role1"/>  
<user username="role1" password="" roles="role1"/>  
  
<role rolename="manager-gui"/>  
user username="tomcat" password="s3cret" roles="manager-gui"/>  
/tomcat-users>
```

45, 64 Bot

i-05cbb9b96a3a18f19 (webapp)
PublicIPs: 52.79.242.40 PrivateIPs: 172.31.39.73

CloudShell Feedback

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ENG IN ☰ 15:07 26-03-2024

Bilal khan

```
-->
<role rolename="manager-gui"/>
<user username="tom" password="ubuntu" roles="manager-gui"/>
</tomcat-users>
-- INSERT --
```

i-05cbb9b96a3a18f19 (webapp)

PublicIPs: 52.79.242.40 PrivateIPs: 172.31.39.73

```
root@ip-172-31-39-73:/var/lib/tomcat9/conf# service tomcat9 restart
root@ip-172-31-39-73:/var/lib/tomcat9/conf#
```

You can write the according you
username and password



It works !

If you're seeing this page via a web browser, it means you've setup Tomcat successfully. Congratulations!

This is the default Tomcat home page. It can be found on the local filesystem at: /var/lib/tomcat9/webapps/ROOT/index.html

Tomcat veterans might be pleased to learn that this system instance of Tomcat is installed with CATALINA_HOME in /usr/share/tomcat9 and CATALINA_BASE in /var/lib/tomcat9, following the rules from /usr/share/doc/tomcat9-common/RUNNING.txt.gz.

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NOTE: For security reasons, using the manager webapp is restricted to users with role "manager-gui". The host-manager webapp is restricted to users with role "admin-gui". Users are defined in /etc/tomcat9/tomcat-users.xml.

A screenshot of the Tomcat Manager UI. It features a 'Sign in' dialog box. The URL 'http://52.79.242.40:8080' is displayed above the dialog. The dialog contains fields for 'Username' and 'Password', and buttons for 'Sign in' and 'Cancel'. The 'Sign in' button is highlighted with a red box.

See Admin

Instances | EC2 | ap-northeast-2 | EC2 Instance Connect | ap-northeast-2 | LinkedIn | tbitu/spring_boot-war-example | Apache Tomcat | /manager | Not secure | 52.79.242.40:8080/manager/html

For quick access, place your bookmarks here on the bookmarks bar: [import bookmarks now...](#)



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		true	0	<button>Start</button> <button>Stop</button> <button>Reload</button> <button>Undeploy</button> <button>Expire sessions</button> with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	<button>Start</button> <button>Stop</button> <button>Reload</button> <button>Undeploy</button> <button>Expire sessions</button> with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	<button>Start</button> <button>Stop</button> <button>Reload</button> <button>Undeploy</button> <button>Expire sessions</button> with idle ≥ 30 minutes

Deploy

Deploy directory or WAR file located on server

Context Path:

Version (for parallel deployment):

XML Configuration file path:

WAR or Directory path:

37°C Hot weather

Search

ENG IN ⓘ 13.09 26-03-2024

Gui

```
root@ip-172-31-39-73:~# ls
snap spring_boot-war-example
root@ip-172-31-39-73:~# cd spring_boot-war-example/
root@ip-172-31-39-73:~/spring_boot-war-example# ls
pom.xml src target
root@ip-172-31-39-73:~/spring_boot-war-example# cd target/
root@ip-172-31-39-73:~/spring_boot-war-example/target# ls
classes generated-sources hello-world-0.0.1-SNAPSHOT.war hello-world-0.0.1-SNAPSHOT.war.original maven-archiver maven-status
root@ip-172-31-39-73:~/spring_boot-war-example/target# cp ./hello-world-0.0.1-SNAPSHOT.war /home/ubuntu
root@ip-172-31-39-73:~/spring_boot-war-example/target#
```

i-05cbb9b96a3a18f19 (webapp)
PublicIPs: 52.79.242.40 PrivateIPs: 172.31.39.73

```
root@ip-172-31-39-73:~# ls
snap spring_boot-war-example
root@ip-172-31-39-73:~# cd spring_boot-war-example/
root@ip-172-31-39-73:~/spring_boot-war-example# ls
pom.xml src target
root@ip-172-31-39-73:~/spring_boot-war-example# cd target/
root@ip-172-31-39-73:~/spring_boot-war-example/target# ls
classes generated-sources hello-world-0.0.1-SNAPSHOT hello-world-0.0.1-SNAPSHOT.war hello-world-0.0.1-SNAPSHOT.war.original maven-archiver maven-status
root@ip-172-31-39-73:~/spring_boot-war-example/target# cp ./hello-world-0.0.1-SNAPSHOT.war /home/ubuntu
root@ip-172-31-39-73:~/spring_boot-war-example/target# cd ..
root@ip-172-31-39-73:~/spring_boot-war-example# su - ubuntu
ubuntu@ip-172-31-39-73:~$ ls
hello-world-0.0.1-SNAPSHOT.war
ubuntu@ip-172-31-39-73:~$
```

i-05cbb9b96a3a18f19 (webapp)
PublicIPs: 52.79.242.40 PrivateIPs: 172.31.39.73

Copy the file in your normal user

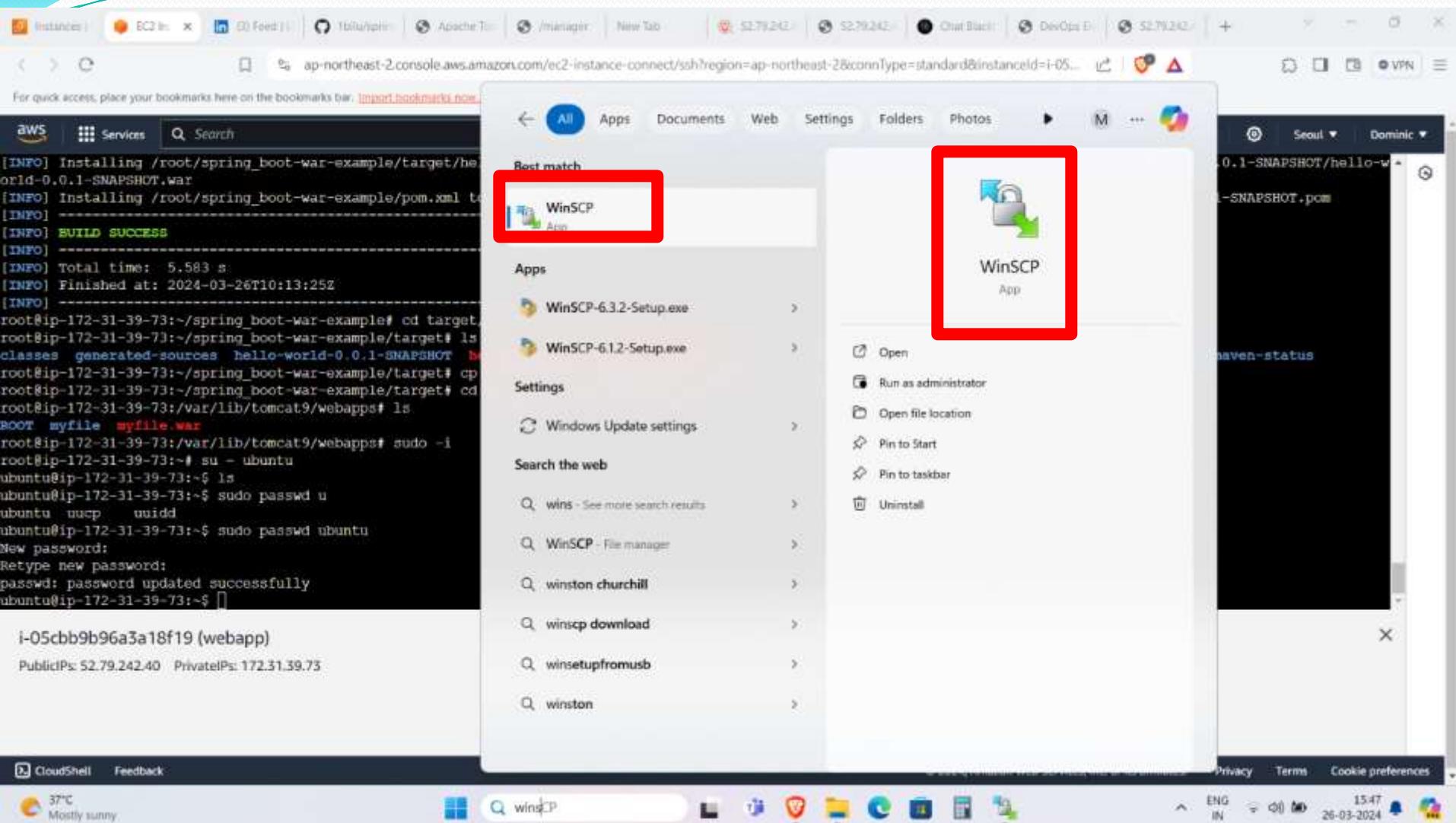
After copy file then you can create your normal user
And then use blow steps for gui

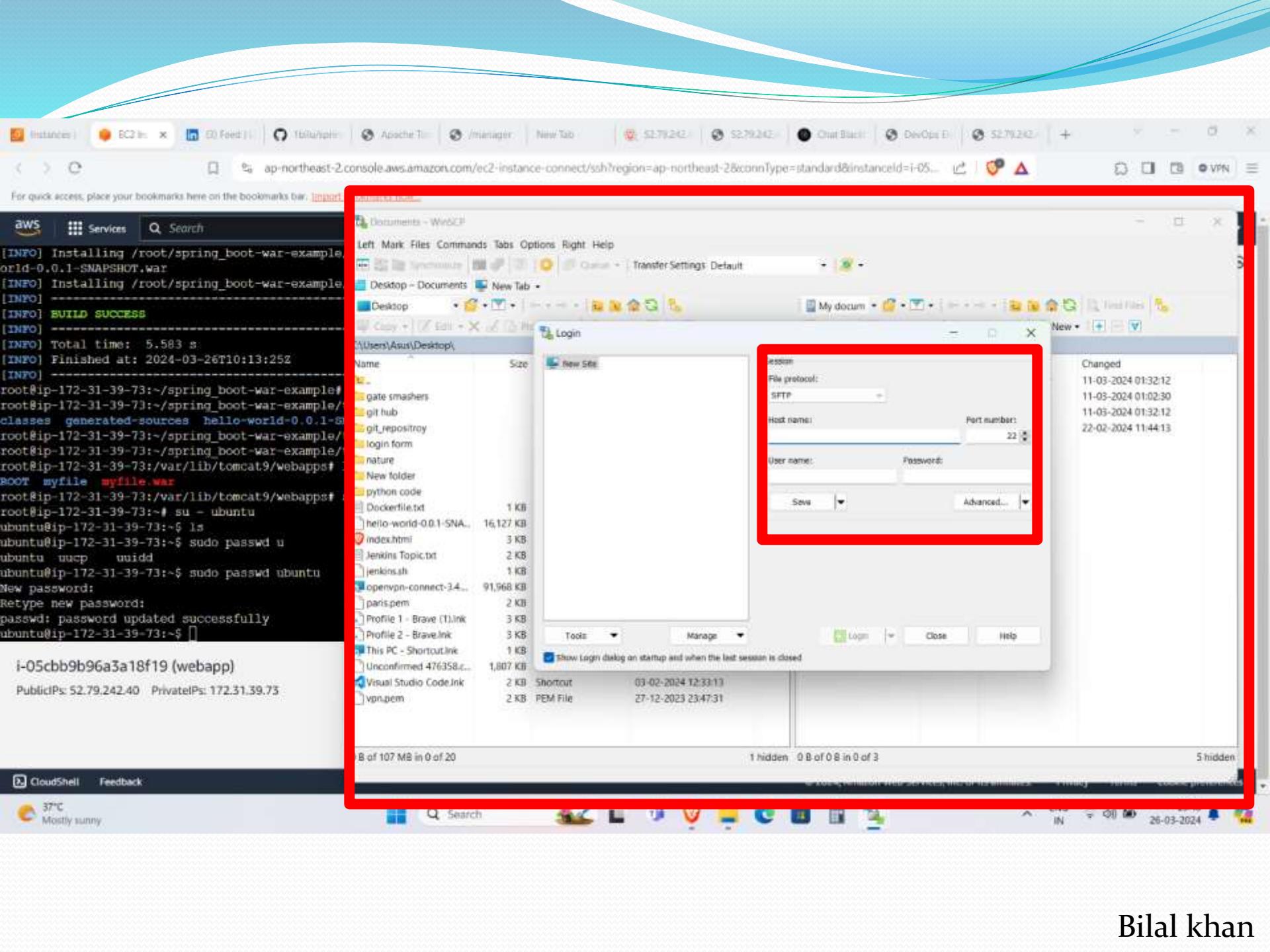
Bilal khan

```
root@ip-172-31-39-73:~# su - ubuntu
ubuntu@ip-172-31-39-73:~$ ls
ubuntu@ip-172-31-39-73:~$ sudo passwd u
ubuntu  uucp  uuidd
ubuntu@ip-172-31-39-73:~$ sudo passwd ubuntu
New password:
Retype new password:
passwd: password updated successfully
ubuntu@ip-172-31-39-73:~$
```

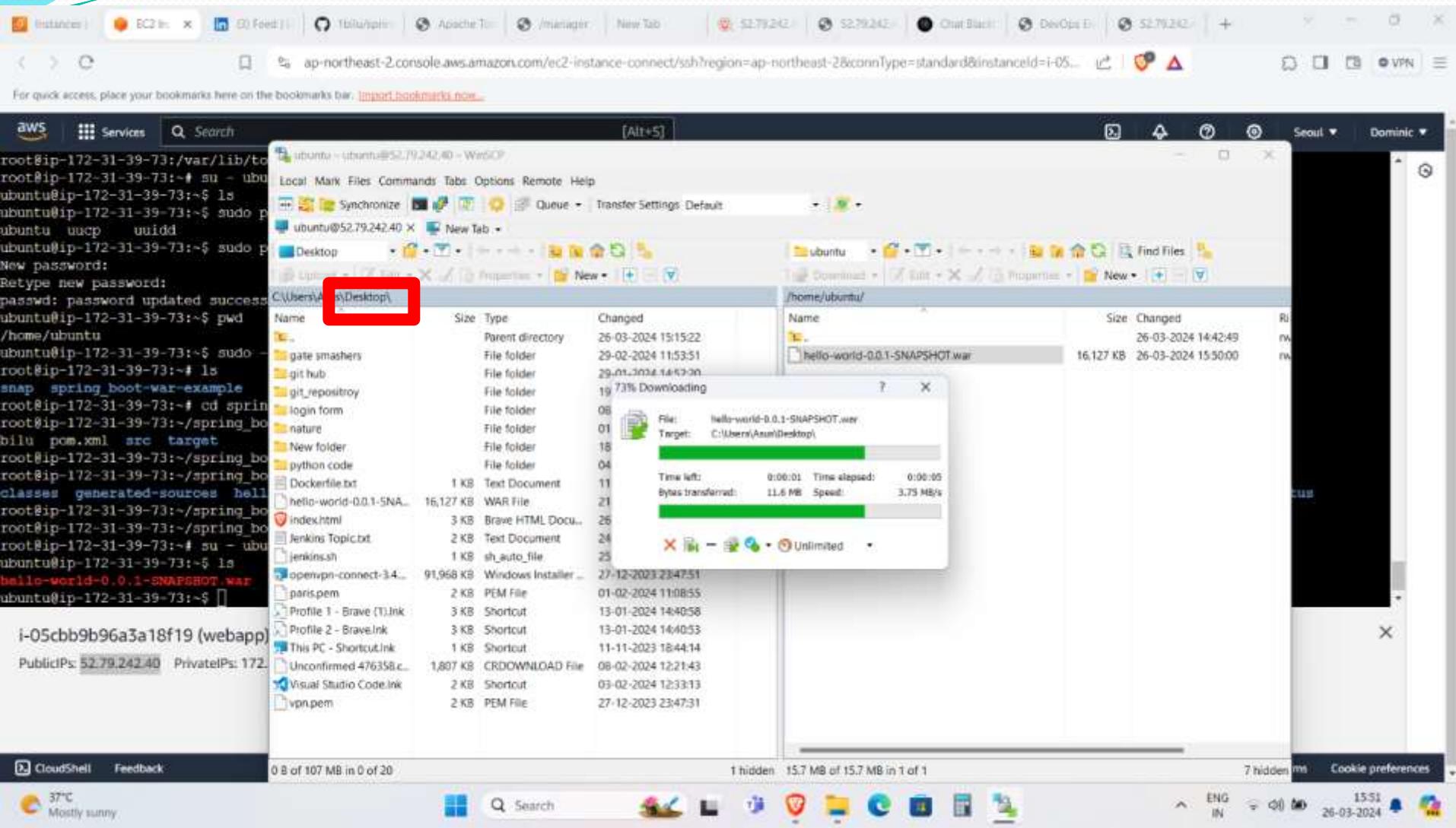
i-05cbb9b96a3a18f19 (webapp)

Public IPs: 52.79.242.40 Private IPs: 172.31.39.73





Bilal khan



Bilal khan

host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
myfile	None specified		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Deploy
Deploy directory or WAR file located on server

Context Path:

Version (for parallel deployment):

XML, Configuration file path:

WAR or Directory path:

WAR file to deploy

Select WAR file to upload: No file chosen

Configuration
Re-read TLS configuration files

TLS host name (optional)

A screenshot of a Jenkins application running on a Windows operating system. The application window is titled "Deploy war file".

The main interface includes:

- WAR file to deploy:** A section where users can select a WAR file to upload. It contains a "Choose File" button and a "Deploy" button.
- Configuration:** A section for re-reading TLS configuration files. It includes a "TLS host name (optional)" input field and a "Re-read" button.
- Diagnostics:** A section for monitoring memory leaks.

At the top of the screen, there is a file dialog window titled "Open" showing the contents of "New Volume (D:) > jenkins_videos". The dialog lists several files and folders, including "jenkins_pipeline_file.txt", "jenkins_input_pipeline.txt", "jenkins_note.txt", "jenkins_parameter_pipeline.txt", "29-01-24", "2024-01-19_jenkins.mp4", and several Microsoft Edge browser session icons.

The system tray at the bottom shows the following information:

- Weather: 37°C Mostly sunny
- Search bar: Search
- Icons for File Explorer, Task View, Taskbar, and Start
- Languages: ENG IN
- Date and Time: 26-03-2024 15:55

Open

Desktop

Organize New folder

Name Date modified Type Size

- Home
- Gallery
- sahil - Personal
- Desktop
- Downloads
- Documents
- Pictures
- Music

New folder

python code

Dockerfile.txt

hello-world-0.0.1-SNAPSHOT.war

index.html

Jenkins Topic.txt

jenkins.sh

openvpn-connect-3.4.3.3337_signed.msi

File name: hello-world-0.0.1-SNAPSHOT.war

Open Cancel

WAR file to deploy

Select WAR file to upload No file chosen

Deploy

Configuration

Re-read TLS configuration files

TLS host name (optional)

Re-read

Diagnostics

Check to see if a web application has caused a memory leak on stop, reload or undeploy

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Search

ENG IN

15:55 26-03-2024

Chat Black DevOps D /maria + VPN

Start Stop Reload Undeploy

Expire sessions with idle ≥ 30 minutes

Start Stop Reload Undeploy

Expire sessions with idle ≥ 30 minutes

Start Stop Reload Undeploy

Expire sessions with idle ≥ 30 minutes

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Instances | EC2 Instances | LinkedIn (3) Feed | Tbilisipir | Apache Tomcat | /manager | New Tab | 52.79.242.40:8080 | 52.79.242.40:8080 | Chat Block | DevOps Env | /manager | + | Not secure | 52.79.242.40:8080/manager/html/upload?org.apache.catalina.filters.CSRF_NONCE=0691A534E1A54A8E8E394E828E08... | VPN |

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Tomcat Web Application Manager

Message: FAIL - War file [hello-world-0.0.1-SNAPSHOT.war] already exists on server

Manager

List Applications	HTML Manager Help	Manager Help	Server Status
-----------------------------------	-----------------------------------	------------------------------	-------------------------------

Applications

Path	Version	Display Name	Running	Sessions	Commands
/	None specified		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/hello-world-0.0.1-SNAPSHOT	None specified		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/myfile	None specified		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Deploy

Deploy directory or WAR file located on server

Context Path:	<input type="text"/>
Version (for parallel deployment):	<input type="text"/>
XML Configuration file path:	<input type="text"/>

37°C Mostly sunny |  Q Search |  ENG IN ⓘ 13:57 26-03-2024

 Instances |  EC2 Instances |  (3) Feed |  1bilu/spring |  Apache Tomcat |  /manager | New Tab



Not secure | 52.79.242.40:8080/myfile/

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hello i am bilal khan

Bilal khan



Thank you