

Created 3 servers on AWS "t2.micro"

Screenshot of the AWS EC2 Management Console showing three t2.micro instances created by the user.

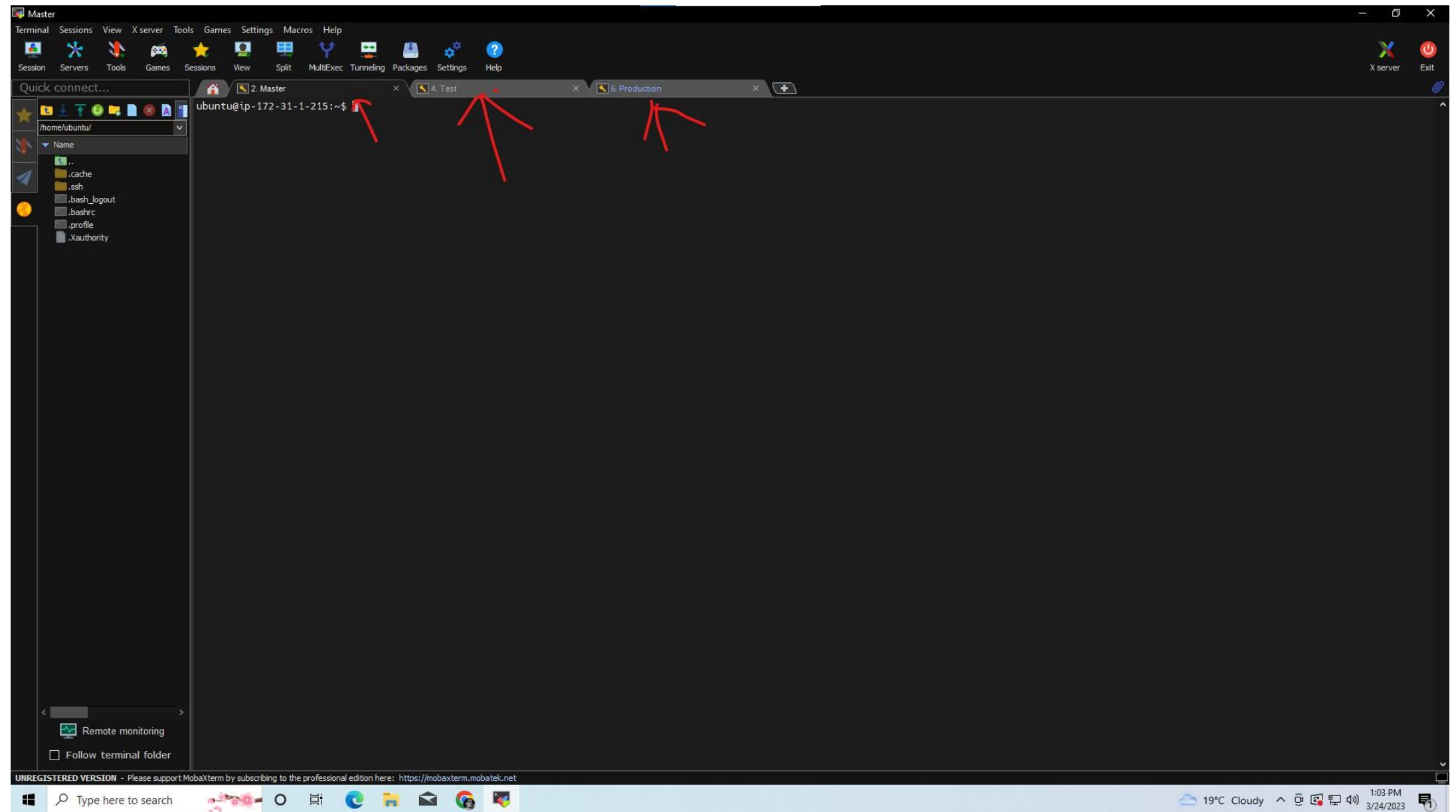
The main interface displays the following details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 IP	Elastic IP	IF
VikashMaster	i-08f3a9cbca955e658	Running	t2.micro	Initializing	No alarms	us-east-1f	ec2-18-232-188-150.co...	18.232.188.150	-	-
VikashTest	i-0bc3416497660cfa9	Running	t2.micro	Initializing	No alarms	us-east-1f	ec2-34-204-203-167.co...	34.204.203.167	-	-
VikashProduct...	i-089ea8cf7dd51c918	Running	t2.micro	Initializing	No alarms	us-east-1f	ec2-3-239-126-128.co...	3.239.126.128	-	-

The instance **i-08f3a9cbca955e658 (VikashMaster)** is selected, showing its detailed configuration:

Details	Security	Networking	Storage	Status checks	Monitoring	Tags
Instance summary						
Instance ID: i-08f3a9cbca955e658 (VikashMaster)	Public IPv4 address: 18.232.188.150 open address	Private IPv4 addresses: 172.31.1.215				
IPv6 address: -	Instance state: Running	Public IPv4 DNS: ec2-18-232-188-150.compute-1.amazonaws.com open address				
Hostname type: IP name: ip-172-31-1-215.ec2.internal	Private IP DNS name (IPv4 only): ip-172-31-1-215.ec2.internal	Elastic IP addresses: -				
Answer private resource DNS name: IPv4 (A)	Instance type: t2.micro	AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations Learn more				
Auto-assigned IP address: 18.232.188.150 [Public IP]	VPC ID: vpc-0edaf386f342a5d9f					

The left sidebar shows the navigation menu for the EC2 service, including options like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, Feedback, Language, and cookie preferences.



Ansible Installation for Configuration Management

The screenshot shows a terminal window in MobaXterm titled "2. Master" with the file path "/home/ubuntu/". The window displays the following command sequence:

```
GNU nano 4.8
sudo apt update
sudo apt install software-properties-common
sudo add-apt-repository --yes --update ppa:ansible/ansible
sudo apt install ansible
```

A red arrow points from the top of the image down to the word "ansible" in the final command line.

Below the terminal window, the MobaXterm interface includes:

- Session navigation buttons: Home, Back, Forward, Stop, Reload, New Session, Recent Sessions.
- File menu: Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help.
- Toolbars: Session, Servers, Tools, Games, Sessions, View, Split, MultiExec, Tunneling, Packages, Settings, Help.
- System status bar: Modified, Remote monitoring, Follow terminal folder, Get Help, Write Out, Where Is, Cut Text, Paste Text, Justify, Cur Pos, Undo, Mark Text, To Bracket, Previous, Next, Back, Forward, Prev Word, Next Word.
- Bottom status bar: UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>, 20°C Cloudy, 1:06 PM, 3/24/2023.

Jenkins Installation

The screenshot shows a terminal session in MobaXterm titled "jenkins.sh". The session path is "/home/ubuntu/". The terminal window displays the following command:

```
sudo apt-get install openjdk-11-jdk -y
sudo apt-get install jenkins -y
```

The terminal interface includes a menu bar with "Master", "Terminal", "Sessions", "View", "X server", "Tools", "Games", "Settings", "Macros", "Help", and various icons for session management. Below the menu is a toolbar with icons for session creation, servers, tools, games, and help. The main area has tabs for "2. Master", "4. Test", and "5. Production". A sidebar on the left shows the current directory structure under "Name". At the bottom, there's a status bar with keyboard shortcuts for various functions like "Remote monitoring", "Get Help", "Write Out", etc., and a registration message: "UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net". The taskbar at the very bottom shows the Windows Start button, a search bar, and system icons for weather, battery, and date.

Docker Installation

Master

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

X server Exit

Quick connect... 2. Master 4. Test 5. Production docker.sh Modified

GNU nano 4.8

```
sudo apt-get update
sudo apt-get install openjdk-11-jdk -y
sudo apt-get install docker.io -y
```

Modified

File Edit View Insert Block Text Search Help

Name .. .cache .ssh .bash_logout .bashrc .profile .Xauthority

Remote monitoring Get Help Write Out Where Is Cut Text Justify Cur Pos Undo Mark Text To Bracket

Follow terminal folder Exit Read File Replace Paste Text To Spell Go To Line Redo Copy Text Where Was Previous

Where Was Next

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Type here to search 20°C Cloudy 1:30 PM 3/24/2023

Ansible Playbook to install java and docker to Slave Servers

Master

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect... 2. Master 4. Test 5. Production + Modified

GNU nano 4.8 /home/ubuntu/ install.yaml

```
- hosts: localhost
  become: true
  name: install jenkins, java and docker
  tasks:
    - name: master task
      script: jenkins.sh
- hosts: test
  become: true
  name: install java and docker
  tasks:
    - name: test task
      script: docker.sh
- hosts: prod
  become: true
  name: install java and docker
  tasks:
    - name: prod task
      script: docker.sh
```

Remote monitoring Follow terminal folder Get Help Exit Read File Where Is Replace Cut Text Paste Text Justify To Spell Cur Pos Go To Line Undo Redo Mark Text Copy Text Where Was Next

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Master

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help

X server Exit

Quick connect... 2. Master 4. Test 5. Production + hosts

Modified

GNU nano 4.8

/home/ubuntu/

Name

- ..
- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .Xauthority

[test]
34.204.203.167

[production]
3.239.126.128

This is the default ansible 'hosts' file.

It should live in /etc/ansible/hosts

- Comments begin with the '#' character
- Blank lines are ignored
- Groups of hosts are delimited by [header] elements
- You can enter hostnames or ip addresses
- A hostname/ip can be a member of multiple groups

Ex 1: Ungrouped hosts, specify before any group headers:

green.example.com
blue.example.com
192.168.100.1
192.168.100.10

Ex 2: A collection of hosts belonging to the 'webservers' group:

[webservers]
alpha.example.org
beta.example.org
192.168.1.100
192.168.1.110

If you have multiple hosts following a pattern, you can specify
them like this:

www[001:006].example.com

Ex 3: A collection of database servers in the 'dbservers' group:

Remote monitoring Follow terminal folder

Get Help Write Out Where Is Cut Text Justify Cur Pos Undo Mark Text To Bracket Previous
Exit Read File Replace Paste Text To Spell Go To Line Redo Copy Text Where Was Next

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Successful SSH Connection Established b/w all the servers

Master

Terminal Sessions View Xserver Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help

X server Exit

Quick connect... 2. Master 4. Test 5. Production

imply password prompting)

Connection Options:

control as whom and how to connect to hosts

--private-key PRIVATE_KEY_FILE, --key-file PRIVATE_KEY_FILE
use this file to authenticate the connection

--scp-extra-args SCP_EXTRA_ARGS
specify extra arguments to pass to scp only (e.g. -l)

--sftp-extra-args SFTP_EXTRA_ARGS
specify extra arguments to pass to sftp only (e.g. -f, -l)

--ssh-common-args SSH_COMMON_ARGS
specify common arguments to pass to sftp/scp/ssh (e.g. ProxyCommand)

--ssh-extra-args SSH_EXTRA_ARGS
specify extra arguments to pass to ssh only (e.g. -R)

-T TIMEOUT, --timeout TIMEOUT
override the connection timeout in seconds (default=10)

-c CONNECTION, --connection CONNECTION
connection type to use (default=smart)

-u REMOTE_USER, --user REMOTE_USER
connect as this user (default=None)

Some actions do not make sense in Ad-Hoc (include, meta, etc)

ubuntu@ip-172-31-1-215:/etc/ansible\$ ansible -m ping test

34.204.203.167 | SUCCESS => {
 "ansible_facts": {
 "discovered_interpreter_python": "/usr/bin/python3"
 },
 "changed": false,
 "ping": "pong"
}
ubuntu@ip-172-31-1-215:/etc/ansible\$ ansible -m ping production

3.239.126.128 | SUCCESS => {
 "ansible_facts": {
 "discovered_interpreter_python": "/usr/bin/python3"
 },
 "changed": false,
 "ping": "pong"
}

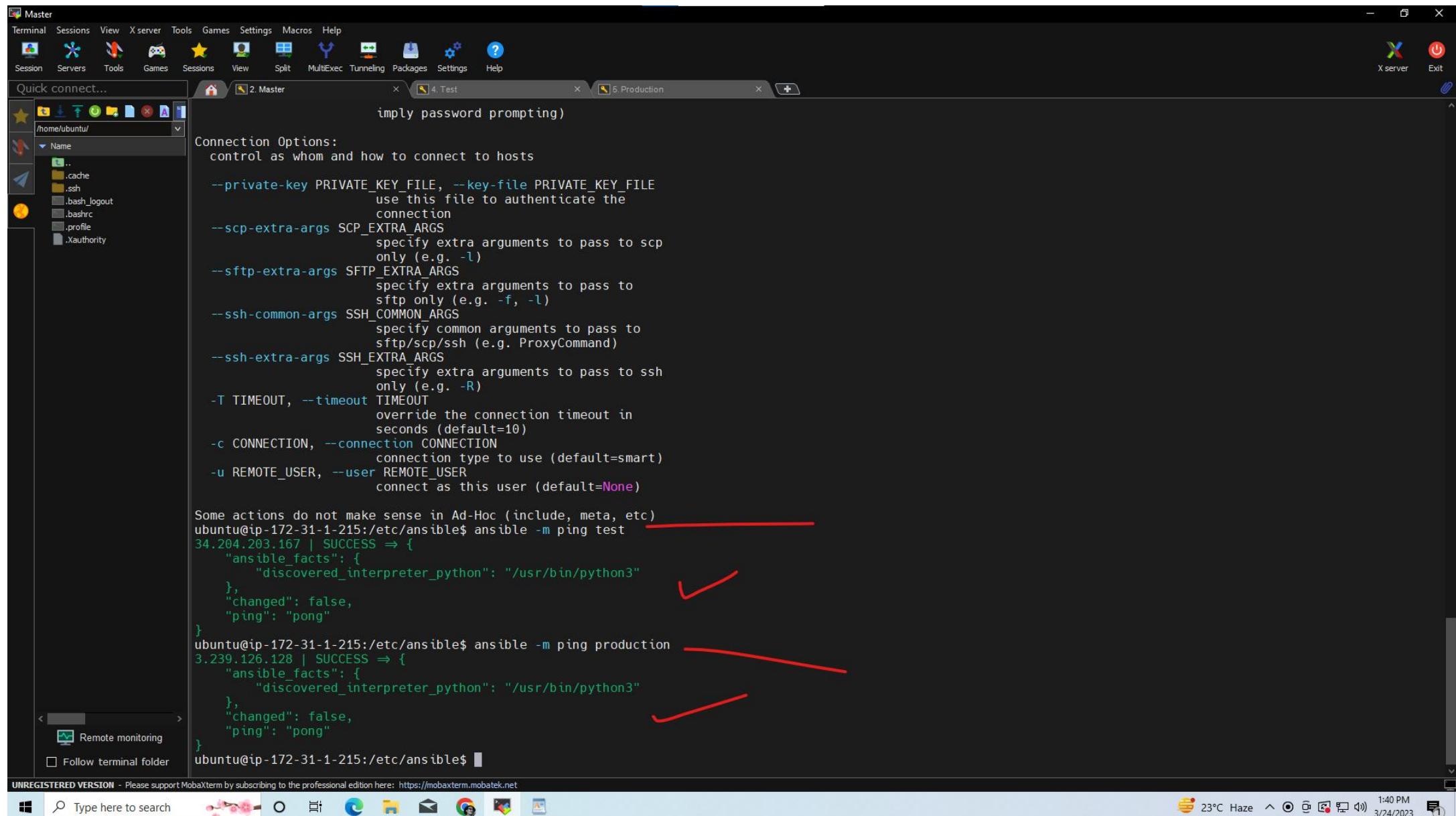
ubuntu@ip-172-31-1-215:/etc/ansible\$

Remote monitoring

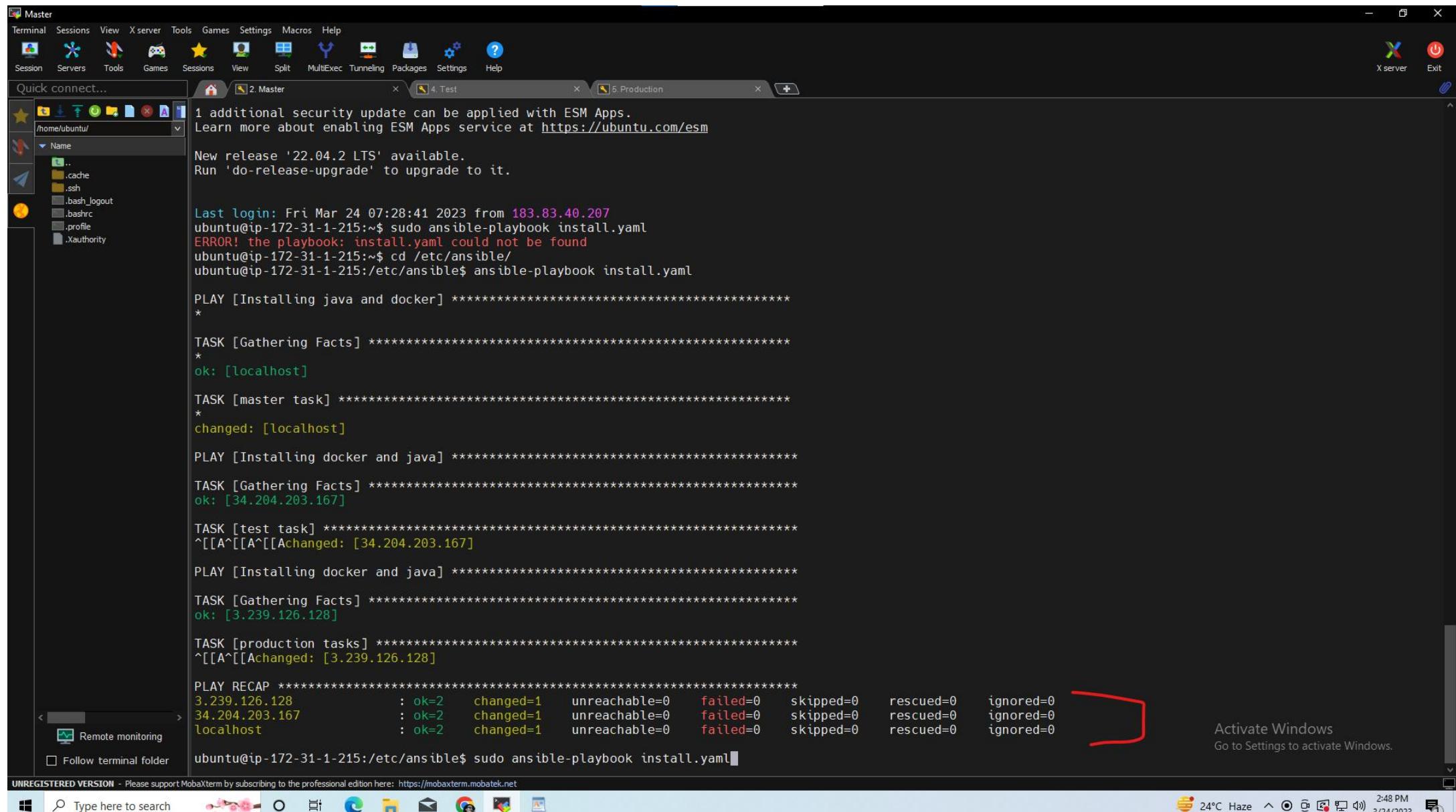
Follow terminal folder

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Successful Installation all the Dependencies on all Machines



Master Terminal Sessions View X server Tools Games Settings Macros Help Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help Quick connect... 2. Master 4. Test 5. Production X server Exit

1 additional security update can be applied with ESM Apps.
Learn more about enabling ESM Apps service at <https://ubuntu.com/esm>

New release '22.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

```
Last login: Fri Mar 24 07:28:41 2023 from 183.83.40.207
ubuntu@ip-172-31-1-215:~$ sudo ansible-playbook install.yaml
ERROR! the playbook: install.yaml could not be found
ubuntu@ip-172-31-1-215:~$ cd /etc/ansible/
ubuntu@ip-172-31-1-215:/etc/ansible$ ansible-playbook install.yaml

PLAY [Installing java and docker] ****
*
TASK [Gathering Facts] ****
*
ok: [localhost]

TASK [master task] ****
*
changed: [localhost]

PLAY [Installing docker and java] ****

TASK [Gathering Facts] ****
ok: [34.204.203.167]

TASK [test task] ****
^[[A^[[A^[[Achanged: [34.204.203.167]

PLAY [Installing docker and java] ****

TASK [Gathering Facts] ****
ok: [3.239.126.128]

TASK [production tasks] ****
^[[A^[[Achanged: [3.239.126.128]

PLAY RECAP ****
3.239.126.128      : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
34.204.203.167     : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
localhost          : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Activate Windows
Go to Settings to activate Windows.

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Java & Docker installed

Test

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help

X server Exit

Quick connect... 2. Master 4. Test 5. Production

MobaXterm Personal Edition v23.0 (SSH client, X server and network tools)

Name

- ..
- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .Xauthority

SSH session to `ubuntu@34.204.203.167`

- Direct SSH : ✓
- SSH compression : ✓
- SSH-browser : ✓
- X11-forwarding : ✓ (remote display is forwarded through SSH)

For more info, ctrl+click on help or visit our website.

Welcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.15.0-1028-aws x86_64)

* Documentation: <https://help.ubuntu.com>
* Management: <https://landscape.canonical.com>
* Support: <https://ubuntu.com/advantage>

System information as of Fri Mar 24 09:20:45 UTC 2023

System load: 0.01 Processes: 123
Usage of /: 38.6% of 7.57GB Users logged in: 1
Memory usage: 30% IPv4 address for docker0: 172.17.0.1
Swap usage: 0% IPv4 address for eth0: 172.31.1.151

* Ubuntu Pro delivers the most comprehensive open source security and compliance features.

<https://ubuntu.com/aws/pro>

* Introducing Expanded Security Maintenance for Applications. Receive updates to over 25,000 software packages with your Ubuntu Pro subscription. Free for personal use.

<https://ubuntu.com/aws/pro>

Expanded Security Maintenance for Applications is not enabled.

72 updates can be applied immediately.
50 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See <https://ubuntu.com/esm> or run: sudo pro status

New release '22.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Fri Mar 24 09:14:05 2023 from 18.232.188.150
`ubuntu@ip-172-31-1-151:~$ java --version`
openjdk 11.0.18 2023-01-17
OpenJDK Runtime Environment (build 11.0.18+10-post-Ubuntu-0ubuntu120.04.1)
OpenJDK 64-Bit Server VM (build 11.0.18+10-post-Ubuntu-0ubuntu120.04.1, mixed mode, sharing)
`ubuntu@ip-172-31-1-151:~$ docker --version`
Docker version 20.10.21, build 20.10.21-0ubuntu1~20.04.1
`ubuntu@ip-172-31-1-151:~$`

Activate Windows
Go to Settings to activate Windows.

Remote monitoring Follow terminal folder

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Java Docker

Master

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

X server Exit

Quick connect... 2. Master 4. Test 5. Production +

/home/ubuntu/

Name .. .cache .ssh .bash_logout .bashrc .profile .Xauthority

```
ubuntu@ip-172-31-1-215:~$ git clone https://github.com/VikashAdhikari/DevopsProject.git
Cloning into 'DevopsProject'...
remote: Enumerating objects: 8, done.
remote: Total 8 (delta 0), reused 0 (delta 0), pack-reused 8
Unpacking objects: 100% (8/8), 82.67 KiB | 10.33 MiB/s, done.
ubuntu@ip-172-31-1-215:~$
```

Activate Windows
Go to Settings to activate Windows.

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Type here to search

24°C Haze 3:04 PM 3/24/2023

The code should reside in '/var/www/html'

A screenshot of the MobaXterm interface. The main window shows a terminal session titled "Dockerfile" where a Dockerfile is being edited. The file content includes:

```
GNU nano 4.8
FROM ubuntu
RUN apt update
RUN apt install apache2 -y
ADD . /var/www/html
ENTRYPOINT apachectl -D FOREGROUND
```

The terminal window has a dark background and light-colored text. At the bottom, there's a menu of keyboard shortcuts. The status bar at the bottom of the screen displays system information like the date and time.

Top menu bar: Master, Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help.

Toolbar icons: Session, Servers, Tools, Games, Sessions, View, Split, MultiExec, Tunneling, Packages, Settings, Help.

Bottom menu bar: Remote monitoring, Follow terminal folder, Get Help, Exit, Write Out, Read File, Where Is, Replace, Cut Text, Paste Text, Justify, To Spell, Cur Pos, Go To Line, Undo, Redo, Mark Text, Copy Text, Where Was, Previous, Next.

Status bar: UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>, 24°C Haze, 3:10 PM, 3/24/2023.

1.Git Workflow has to be implemented

Master

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help

Quick connect... 2. Master 4. Test 5. Production

ubuntu@ip-172-31-1-215:~\$ ls

DevopsProject ansible_install.sh

ubuntu@ip-172-31-1-215:~\$ cd DevopsProject

ubuntu@ip-172-31-1-215:~/DevopsProject\$ ls

images index.html

ubuntu@ip-172-31-1-215:~/DevopsProject\$ git status

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

ubuntu@ip-172-31-1-215:~/DevopsProject\$ git branch

* master

ubuntu@ip-172-31-1-215:~/DevopsProject\$ sudo nano Dockerfile

ubuntu@ip-172-31-1-215:~/DevopsProject\$ LS

LS: command not found

ubuntu@ip-172-31-1-215:~/DevopsProject\$ ls

Dockerfile images index.html

ubuntu@ip-172-31-1-215:~/DevopsProject\$ git add .

ubuntu@ip-172-31-1-215:~/DevopsProject\$ git commit -m "adding focker to master"

[master d34f497] adding focker to master

Committer: Ubuntu <ubuntu@ip-172-31-1-215.ec2.internal>

Your name and email address were configured automatically based on your username and hostname. Please check that they are accurate.

You can suppress this message by setting them explicitly. Run the following command and follow the instructions in your editor to edit your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

1 file changed, 5 insertions(+)

create mode 100644 Dockerfile

ubuntu@ip-172-31-1-215:~/DevopsProject\$ git branch develop

ubuntu@ip-172-31-1-215:~/DevopsProject\$ git branch

develop

* master

ubuntu@ip-172-31-1-215:~/DevopsProject\$ git checkout develop

Switched to branch 'develop'

ubuntu@ip-172-31-1-215:~/DevopsProject\$ ls

Dockerfile images index.html

ubuntu@ip-172-31-1-215:~/DevopsProject\$

Activate Windows
Go to Settings to activate Windows.

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Type here to search

24°C Haze 3:13 PM 3/24/2023

git Workflow Flow

Jenkins Pipeline

Intellipaat Session Update - vikas | Final-Project-1-Updated.pdf | VikashAdhikari/DevopsProject | Start Course | Intellipaat | Instances | EC2 Management Corp | Dashboard [Jenkins]

Not secure | 18.232.188.150:8080

Keyword ideas - 53... family movie Free Online Comma... All About German S... BollyFlix | Official Si... Ted Woodworking Download 16,000... The Secret (2006) ... Movies Flix | Movie... Accenture interview... Dr. Joe Dispenza ... Other bookmarks

Jenkins

Dashboard >

+ New Item Add description

People

Build History

Manage Jenkins

My Views

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job →

Set up a distributed build

Set up an agent →

Configure a cloud →

Learn more about distributed builds ↗

Activate Windows
Go to Settings to activate Windows.

REST API Jenkins 2.387.1

Type here to search

24°C Haze 3:17 PM 3/24/2023

Production And Test Environment Created

S Name Architecture Clock Difference Free Disk Space Free Swap Space Free Temp Space Response Time

S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
1	Built-In Node	Linux (amd64)	In sync	3.85 GB	0 B	3.85 GB	0ms
2	Production	Linux (amd64)	In sync	4.62 GB	0 B	4.62 GB	149ms
3	Test	Linux (amd64)	In sync	3.85 GB	0 B	3.85 GB	5ms

Data obtained

Activate Windows
Go to Settings to activate Windows.

REST API Jenkins 2.387.1

Type here to search Construction on Oute... 3:27 PM 3/24/2023

Master

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help

X server Exit

Quick connect... 2. Master 4. Test 5. Production

/home/ubuntu/

Name .. .cache .ssh .bash_logout .bashrc .profile .Xauthority

```
ubuntu@ip-172-31-1-215:~$ ls
DevopsProject ansible_install.sh jenkins
ubuntu@ip-172-31-1-215:~$ ls
DevopsProject ansible_install.sh jenkins
ubuntu@ip-172-31-1-215:~$ rm -rf jenkins/
ubuntu@ip-172-31-1-215:~$ ls
DevopsProject ansible_install.sh
ubuntu@ip-172-31-1-215:~$ cd Devopsproject/
-bash: cd: Devopsproject/: No such file or directory
ubuntu@ip-172-31-1-215:~$ ls
Dockerfile images index.html
ubuntu@ip-172-31-1-215:~/DevopsProject$ git branch
* develop
  master
ubuntu@ip-172-31-1-215:~/DevopsProject$ git push origin develop
Username for 'https://github.com': VikashAdhikari
Password for 'https://VikashAdhikari@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 423 bytes | 141.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote:     https://github.com/VikashAdhikari/DevopsProject/pull/new/develop
remote:
To https://github.com/VikashAdhikari/DevopsProject.git
 * [new branch]      develop -> develop
ubuntu@ip-172-31-1-215:~/DevopsProject$
```

< >

Activate Windows
Go to Settings to activate Windows.

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Type here to search 28°C Haze 3:45 PM 3/24/2023

A screenshot of a Microsoft Edge browser window showing a GitHub repository page. The URL in the address bar is `github.com/VikashAdhikari/DevopsProject`. The repository name is `VikashAdhikari / DevopsProject` (Public). A red arrow points to the 'Code' tab in the navigation bar.

The repository has 2 branches and 0 tags. The master branch is protected. The code listing shows three files: `Ubuntu modified`, `images` (final), and `index.html` (modified). A green button at the bottom says `Add a README`.

On the right side, there's an **About** section with 0 stars, 0 watching, and 1.2k forks. There are sections for **Releases** (No releases published) and **Packages** (No packages published). The **Languages** section shows a single bar for HTML at 100.0%.

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Activate Windows
Go to Settings to activate Windows.



Job1 done when commit made to develop branch

Intellipaat Session Update | Final-Project-1-Updated.pc | Personal Access Tokens | VikashAdhikari/DevopsPro | Start Course | Intellipaat | Instances | EC2 Management | Job1 [Jenkins] | New Tab | + | - | | Other bookmarks

Not secure | 18.232.188.150:8080/job/Job1/

Keyword ideas - 53... family movie Free Online Comma... All About German S... BollyFlix | Official Si... Ted Woodworking Download 16,000... The Secret (2006) ... Movies Flix | Movie... Accenture interview... Dr. Joe Dispenza ...

Jenkins

Search (CTRL+K)

admin log out

Dashboard > Job1 >

Status

Project Job1

</> Changes Testing Develop Branch's required output

Workspace

Build Now

Configure

Edit description

Delete Project

GitHub Hook Log

GitHub

Rename

Permalinks

- Last build (#1), 1 min 33 sec ago
- Last stable build (#1), 1 min 33 sec ago
- Last successful build (#1), 1 min 33 sec ago
- Last completed build (#1), 1 min 33 sec ago

Build History trend

Filter builds...

#1 24-Mar-2023, 10:15 AM

Atom feed for all Atom feed for failures

Run Success

Activate Windows
Go to Settings to activate Windows.

REST API Jenkins 2.387.1

Type here to search

28°C Haze 3:46 PM 3/24/2023

Test

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help

X server Exit

Quick connect... 2. Master 4. Test 5. Production

• MobaXterm Personal Edition v23.0 •
(SSH client, X server and network tools)

Name

- ..
- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .Xauthority

Welcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.15.0-1028-aws x86_64)

* Documentation: <https://help.ubuntu.com>
* Management: <https://landscape.canonical.com>
* Support: <https://ubuntu.com/advantage>

System information as of Fri Mar 24 10:18:00 UTC 2023

System load:	0.01	Processes:	130
Usage of /:	39.0% of 7.57GB	Users logged in:	1
Memory usage:	40%	IPv4 address for docker0:	172.17.0.1
Swap usage:	0%	IPv4 address for eth0:	172.31.1.151

* Ubuntu Pro delivers the most comprehensive open source security and compliance features.

<https://ubuntu.com/aws/pro>

* Introducing Expanded Security Maintenance for Applications.
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<https://ubuntu.com/aws/pro>

Expanded Security Maintenance for Applications is not enabled.

72 updates can be applied immediately.
50 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See <https://ubuntu.com/esm> or run: sudo pro status

New release '22.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Fri Mar 24 10:11:16 2023 from 183.83.40.207
ubuntu@ip-172-31-1-151:~\$ cd jenkins
ubuntu@ip-172-31-1-151:~/jenkins\$ ls
remoting remoting.jar workspace

Activate Windows
Go to Settings to activate Windows.

Remote monitoring Follow terminal folder

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Type here to search 28°C Haze 3:48 PM 3/24/2023

Intellipaat Session Update | Final-Project-1-Updated.pc | Personal Access Tokens | Start Course | Intellipaat | Job1 [Jenkins] | Instances | EC2 Management | New Tab

Not secure | 18.232.188.150:8080/job/Job1/

Keyword ideas - 53... family movie Free Online Comm... All About German S... BollyFlix | Official Si... Ted Woodworking Download 16,000... The Secret (2006) ... Movies Flix | Movie... Accenture interview... Dr. Joe Dispenza ... Other bookmarks

Jenkins

Search (CTRL+K)

admin log out

Dashboard > Job1 >

Status Changes Testing Develop Branch's required output

Workspace Edit description

Build Now Disable Project

Configure

Delete Project

GitHub Hook Log

GitHub

Rename

Build History trend

Filter builds... #3 24-Mar-2023, 10:26 AM #2 24-Mar-2023, 10:24 AM #1 24-Mar-2023, 10:15 AM Atom feed for all Atom feed for failures

Activate Windows Go to Settings to activate Windows.

REST API Jenkins 2.387.1

Type here to search

28°C Haze 3:56 PM 3/24/2023

Handwritten note: "Docker" with arrows pointing from the Jenkins interface to the word "Docker".

containerized with the help of a Dockerfile. The Dockerfile building every time there is a push to Git-Hub. Use the following pre-built container for your application

The screenshot shows a MobaXterm window titled "Test" with three tabs: "2. Master", "4. Test", and "5. Production". The "4. Test" tab is active, displaying a terminal session on an Ubuntu system.

```
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage

System information as of Fri Mar 24 10:27:26 UTC 2023

System load: 0.2      Processes: 146
Usage of /: 42.0% of 7.57GB  Users logged in: 1
Memory usage: 46%          IPv4 address for docker0: 172.17.0.1
Swap usage: 0%            IPv4 address for eth0: 172.31.1.151

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  compliance features.

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https://ubuntu.com/aws/pro

Expanded Security Maintenance for Applications is not enabled.

72 updates can be applied immediately.
50 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

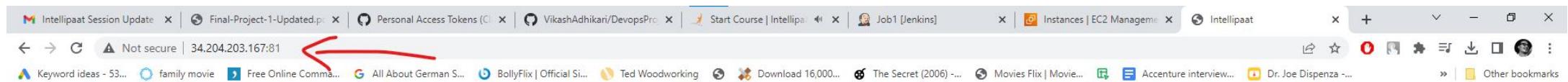
New release '22.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Fri Mar 24 10:18:01 2023 from 183.83.40.207
ubuntu@ip-172-31-1-151:~$ ls
jenkins
ubuntu@ip-172-31-1-151:~$ cd jenkins/workspace/Job1
ubuntu@ip-172-31-1-151:~/jenkins/workspace/Job1$ ls
Dockerfile images index.html
ubuntu@ip-172-31-1-151:~/jenkins/workspace/Job1$ sudo docker ps
CONTAINER ID   IMAGE      COMMAND             CREATED           STATUS        PORTS     NAMES
3a1e4f986245   firstimage  "/bin/sh -c 'apachec..."   About a minute ago   Up About a minute   0.0.0.0:81→80/tcp,  :::81→80/tcp   c1
ubuntu@ip-172-31-1-151:~/jenkins/workspace/Job1$
```

At the bottom right of the terminal window, there is a watermark: "Activate Windows" with a red arrow pointing to it, and "Go to Settings to activate Windows." with another red arrow pointing to it.

At the bottom of the screen, the taskbar shows icons for File Explorer, Edge browser, Mail, and File History. The system tray displays the date (3/24/2023), time (3:58 PM), battery level (28°C Haze), and a notification icon.

pre-built container application running on testing environment on a specific port



Hello world!



Intellipaat

GitHub

Activate Windows
Go to Settings to activate Windows.



Pushing the commit to master

Master

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help

X server Exit

Quick connect... 2. Master 4. Test 5. Production

/home/ubuntu/

Name

- ..
- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .xauthority

System information as of Fri Mar 24 10:41:32 UTC 2023

System load: 0.01 Processes: 137
Usage of /: 48.7% of 7.57GB Users logged in: 1
Memory usage: 77% IPv4 address for eth0: 172.31.1.215
Swap usage: 0%

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<https://ubuntu.com/aws/pro>

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<https://ubuntu.com/aws/pro>

Expanded Security Maintenance for Applications is not enabled.

70 updates can be applied immediately.
50 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

1 additional security update can be applied with ESM Apps.
Learn more about enabling ESM Apps service at <https://ubuntu.com/esm>

New release '22.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Fri Mar 24 10:21:08 2023 from 183.83.40.207
ubuntu@ip-172-31-1-215:~\$ cd DevopsProject
ubuntu@ip-172-31-1-215:~/DevopsProject\$ git branch
* develop
 master
ubuntu@ip-172-31-1-215:~/DevopsProject\$ git push origin master ✓
Username for 'https://github.com': VikashAdhikari
Password for 'https://VikashAdhikari@github.com':
Total 0 (delta 0), reused 0 (delta 0)
To https://github.com/VikashAdhikari/DevopsProject.git
 883b439..d34f497 master → master
ubuntu@ip-172-31-1-215:~/DevopsProject\$

Activate Windows
Go to Settings to activate Windows.

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Type here to search 28°C Haze 4:12 PM 3/24/2023

Successful built of master commit

Job2 [Jenkins] Not secure | 18.232.188.150:8080/job/Job2/ Keyword ideas - 53... family movie Free Online Comma... All About German S... BollyFlix | Official Si... Ted Woodworking Download 16,000... The Secret (2006) ... Movies Flix | Movie... Accenture interview... Dr. Joe Dispenza ... Other bookmarks Jenkins Search (CTRL+K) admin log out Dashboard > Job2 >

Project Job2

testing master branch

Changes Workspace Build Now Configure Delete Project GitHub Hook Log Rename Edit description Disable Project

Permalinks

- Last build (#2), 47 sec ago
- Last stable build (#2), 47 sec ago
- Last successful build (#2), 47 sec ago
- Last completed build (#2), 47 sec ago

Build History trend

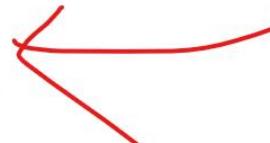
Filter builds... #2 24-Mar-2023, 10:42 AM #1 24-Mar-2023, 10:36 AM Atom feed for all Atom feed for failures

Activate Windows Go to Settings to activate Windows.

REST API Jenkins 2.387.1

Type here to search 28°C Haze 4:13 PM 3/24/2023

Job Run on Master Branch
Commit Done on Master Branch



Production container running on port 83

Intellipaat Session Update | Final-Project-1-Updated.pc | Personal Access Tokens | Start Course | Intellipaat | Instances | EC2 Management | Intellipaat | Intellipaat

Not secure | 34.204.203.167:83 ↗

Keyword ideas - 53... family movie Free Online Comma... All About German S... BollyFlix | Official Si... Ted Woodworking Download 16,000... The Secret (2006) ... Movies Flix | Movie... Accenture interview... Dr. Joe Dispenza ... Other bookmarks

Hello world!



GitHub

Activate Windows
Go to Settings to activate Windows.

Type here to search

28°C Haze 4:22 PM 3/24/2023

Intellipaat Session Up... | Final-Project-1-Update... | Personal Access Token | VikashAdhikari/Devop... | Start Course | Intellipa... | Instances | EC2 Manag... | Dashboard [Jenkins] | Intellipaat | Intellipaat | + | - | X

Not secure | 18.232.188.150:8080

Keyword ideas - 53... family movie Free Online Comma... All About German S... BollyFlix | Official Si... Ted Woodworking Download 16,000... The Secret (2006) ... Movies Flix | Movie... Accenture interview... Dr. Joe Dispenza ... Other bookmarks

Jenkins

Search (CTRL+K)

admin log out

Dashboard >

+ New Item

All +

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

Built-In Node

1 Idle

2 Idle

Production

1 Idle

Test

1 Idle

Icon: S M L

Last Success Last Failure Last Duration

S	W	Name	Last Success	Last Failure	Last Duration
✓	☁️	Job1	20 min #4	28 min #2	1.4 sec
✓	☀️	Job2	47 sec #5	N/A	1.2 sec

Icon legend Atom feed for all Atom feed for failures Atom feed for just latest builds

Activate Windows
Go to Settings to activate Windows.

REST API Jenkins 2.387.1

Type here to search

28°C Haze 4:23 PM 3/24/2023

Red annotations: "test" points to the last success time for Job1, and "Match" points to the last failure time for Job2.

Finaljob Config [Jenkins] Not secure | 18.232.188.150:8080/job/Finaljob/configure

Keyword ideas - 53... family movie Free Online Comma... All About German S... BollyFlix | Official Si... Ted Woodworking Download 16,000... The Secret (2006) ... Movies Flix | Movie... Accenture interview... Dr. Joe Dispenza ... Other bookmarks

Dashboard > Finaljob > Configuration

Configure

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

Build Steps

Execute shell

Command

See [the list of available environment variables](#)

```
sudo docker rm -f $(sudo docker ps -a -q)
sudo docker build /home/ubuntu/workspace/Finaljob -t finalimage
sudo docker run -itd --name finalcontainer -p 80:80 finalimage
```

Advanced ▾

Add build step ▾

Post-build Actions

Add post-build action ▾

Save Apply

Activate Windows
Go to Settings to activate Windows.

Type here to search

27°C Haze 4:33 PM 3/24/2023

A red arrow points to the 'Execute shell' section, and another red arrow points to the command input field.

Intellipaat Session | Final-Project-1-Up... | Personal Access To... | VikashAdhikari/De... | Start Course | Intellipaat | Instances | EC2 Ma... | Dashboard [Jenkins] | Intellipaat | Intellipaat | Intellipaat | + | - | X

Not secure | 18.232.188.150:8080

Keyword ideas - 53... family movie Free Online Comma... All About German S... BollyFlix | Official Si... Ted Woodworking Download 16,000... The Secret (2006) ... Movies Flix | Movie... Accenture interview... Dr. Joe Dispenza ... Other bookmarks

Jenkins

Dashboard >

+ New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

Built-In Node

1 Idle

2 Idle

Production

1 Idle

Test

1 Idle

All +

Search (CTRL+K)

admin log out

Triggers Finaljob

Finaljob

Last Success: 1 min 8 sec #3

Last Failure: 2 min 3 sec #2

Last Duration: 26 sec

Job1

Last Success: 34 min #4

Last Failure: 42 min #2

Last Duration: 1.4 sec

Job2

Last Success: 1 min 16 sec #8

Last Failure: N/A

Last Duration: 1.1 sec

Icon: S M L

Icon legend: Atom feed for all Atom feed for failures Atom feed for just latest builds

Activate Windows
Go to Settings to activate Windows.

REST API Jenkins 2.387.1

Type here to search

27°C Haze 4:36 PM 3/24/2023

Intellipaat Session | Final-Project-1-Up | Personal Access To... | VikashAdhikari/De... | Start Course | Intellipaat | Instances | EC2 Ma... | Job2 [Jenkins] | Intellipaat | Intellipaat | Intellipaat | + | - | X

Not secure | 18.232.188.150:8080/job/Job2/

Keyword ideas - 53... family movie Free Online Comma... All About German S... BollyFlix | Official Si... Ted Woodworking Download 16,000... The Secret (2006) ... Movies Flix | Movie... Accenture interview... Dr. Joe Dispenza ... Other bookmarks

Dashboard > Job2 >

Status Changes Workspace Build Now Configure Delete Project GitHub Hook Log Rename Build History trend Filter builds... /

Project Job2

testing master branch

Downstream Projects

Finaljob

Permalinks

- Last build (#8), 2 min 38 sec ago
- Last stable build (#8), 2 min 38 sec ago
- Last successful build (#8), 2 min 38 sec ago
- Last completed build (#8), 2 min 38 sec ago

#8 24-Mar-2023, 11:05 AM
#7 24-Mar-2023, 11:04 AM
#6 24-Mar-2023, 10:59 AM
#5 24-Mar-2023, 10:52 AM
#4 24-Mar-2023, 10:51 AM
#3 24-Mar-2023, 10:48 AM
#2 24-Mar-2023, 10:42 AM
#1 24-Mar-2023, 10:36 AM

Activate Windows Go to Settings to activate Windows.

27°C Haze 4:38 PM 3/24/2023

Job2 ran successfully once happened on Production Branch

Intellipaat Session | Final-Project-1-Up | Personal Access To... | VikashAdhikari/De... | Start Course | Intellipaat | Instances | EC2 Ma... | Job2 [Jenkins] | Intellipaat | Intellipaat | Intellipaat | + | - | X

Not secure | 18.232.188.150:8080/job/Job2/

Keyword ideas - 53... family movie Free Online Comma... All About German S... BollyFlix | Official Si... Ted Woodworking Download 16,000... The Secret (2006) ... Movies Flix | Movie... Accenture interview... Dr. Joe Dispenza ... Other bookmarks

Dashboard > Job2 >

Status Changes Workspace Build Now Configure Delete Project GitHub Hook Log Rename Build History trend Filter builds... /

Project Job2

testing master branch

Downstream Projects

Finaljob

Permalinks

- Last build (#8), 2 min 38 sec ago
- Last stable build (#8), 2 min 38 sec ago
- Last successful build (#8), 2 min 38 sec ago
- Last completed build (#8), 2 min 38 sec ago

#8 24-Mar-2023, 11:05 AM
#7 24-Mar-2023, 11:04 AM
#6 24-Mar-2023, 10:59 AM
#5 24-Mar-2023, 10:52 AM
#4 24-Mar-2023, 10:51 AM
#3 24-Mar-2023, 10:48 AM
#2 24-Mar-2023, 10:42 AM
#1 24-Mar-2023, 10:36 AM

Activate Windows Go to Settings to activate Windows.

27°C Haze 4:38 PM 3/24/2023

Job2 ran successfully once happened on Production Branch

Intellipaat Session | Final-Project-1-Up... | Personal Access To... | VikashAdhikari/De... | Start Course | Intellipaat | Instances | EC2 Ma... | Finaljob [Jenkins] | Intellipaat | Intellipaat | Intellipaat | + | - | X

Not secure | 18.232.188.150:8080/job/Finaljob/

Keyword ideas - 53... family movie Free Online Comma... All About German S... BollyFlix | Official Si... Ted Woodworking Download 16,000... The Secret (2006) ... Movies Flix | Movie... Accenture interview... Dr. Joe Dispenza ... Other bookmarks

Jenkins

Search (CTRL+K)

admin log out

Dashboard > Finaljob >

Status

</> Changes running final

Workspace

Build Now

Configure

Delete Project

Rename

Upstream Projects

Job2

Permalinks

Build History trend

Filter builds... /

#3 24-Mar-2023, 11:05 AM

#2 24-Mar-2023, 11:04 AM

#1 24-Mar-2023, 10:59 AM

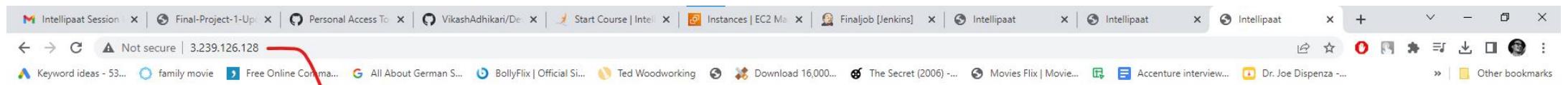
Atom feed for all Atom feed for failures

Production Triggered final job Container created on port 80 on master IP

Activate Windows
Go to Settings to activate Windows.

REST API Jenkins 2.387.1





GitHub

Activate Windows
Go to Settings to activate Windows.

