Name

jenkins

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

Quick Start

Amazon Linux	macOS	Ubuntu	Windows	Red Hat	SUSE Li
aws	Mac	ubuntu®	Microsoft	Red Hat	SUSE

🔍 **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-08766f81ab52792ce (64-bit (x86)) / ami-0ff124a3d7381bfec (64-bit (Arm))
Virtualization: hvm   ENA enabled: true   Root device type: ebs

---

sg-05e0eaab7ba23bf57 - launch-wizard-1

Actions ▼

Details

Security group name	Security group ID	Description	VPC ID
🗗 launch-wizard-1	🗗 sg-05e0eaab7ba23bf57	🗗 launch-wizard-1 created 2023-08-21T18:07:04.831Z	🗗 vpc-06846d879837f250b 🔗
Owner	Inbound rules count	Outbound rules count	
🗗 404405619113	2 Permission entries	1 Permission entry	

Inbound rules   Outbound rules   Tags

ⓘ You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer   ✕

Inbound rules (2)

🔄   Manage tags   **Edit inbound rules**

🔍 Filter security group rules

< 1 >   ⚙

☐	Name	▽	Security group rule... ▽	IP version ▽	Type ▽	Protocol ▽	Port range
☐	–		sgr-0f3df6e706615f1c4	IPv4	Custom TCP	TCP	8080
☐	–		sgr-0840edd1a2c6694...	IPv4	SSH	TCP	22

```
                    • MobaXterm Personal Edition v23.2 •
                 (SSH client, X server and network tools)

  ➤ SSH session to ubuntu@16.171.208.182
    • 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 20.04.6 LTS (GNU/Linux 5.15.0-1036-aws x86_64)

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

  System information as of Mon Aug 21 18:23:55 UTC 2023



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.

/usr/bin/xauth:  file /home/ubuntu/.Xauthority does not exist
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-41-25:~$
```

```
ubuntu@ip-172-31-41-25:~$ systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
     Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
     Active: active (running) since Mon 2023-08-21 18:33:55 UTC; 1min 29s ago
   Main PID: 18586 (java)
      Tasks: 38 (limit: 1111)
     Memory: 305.2M
     CGroup: /system.slice/jenkins.service
             └─18586 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Aug 21 18:33:14 ip-172-31-41-25 jenkins[18586]: a561251733ca4a378759825270c56322
Aug 21 18:33:14 ip-172-31-41-25 jenkins[18586]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Aug 21 18:33:14 ip-172-31-41-25 jenkins[18586]: *************************************************************
Aug 21 18:33:14 ip-172-31-41-25 jenkins[18586]: *************************************************************
Aug 21 18:33:14 ip-172-31-41-25 jenkins[18586]: *************************************************************
Aug 21 18:33:55 ip-172-31-41-25 jenkins[18586]: 2023-08-21 18:33:55.969+0000 [id=31]     INFO     jenkins.InitReactorRunner$1#onAttained: Completed ini
Aug 21 18:33:55 ip-172-31-41-25 jenkins[18586]: 2023-08-21 18:33:55.987+0000 [id=24]     INFO     hudson.lifecycle.Lifecycle#onReady: Jenkins is fully
Aug 21 18:33:55 ip-172-31-41-25 systemd[1]: Started Jenkins Continuous Integration Server.
Aug 21 18:33:56 ip-172-31-41-25 jenkins[18586]: 2023-08-21 18:33:56.491+0000 [id=48]     INFO     h.m.DownloadService$Downloadable#load: Obtained the u
Aug 21 18:33:56 ip-172-31-41-25 jenkins[18586]: 2023-08-21 18:33:56.492+0000 [id=48]     INFO     hudson.util.Retrier#start: Performed the action check
ubuntu@ip-172-31-41-25:~$
```

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (**not sure where to find it?**) and this file on the server:

`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

```
••••••••••••••••••••••••••••
```

Continue

Jenkins

Search (CTRL+K)   ⊘ 1   ⊙ Yulia Nakonechna ⌄   ⤷ log out

Dashboard >

+ New Item
People
Build History
Manage Jenkins
My Views

Build Queue   ⌄
No builds in the queue.

Build Executor Status   ⌄
1 Idle
2 Idle

✎ Add description

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	⊖

REST API   Jenkins 2.401.3

Jenkins

Search (CTRL+K)   ⊘ 1   ⊙ Yulia Nakonechna ⌄   ⤷ log out

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >

Global credentials (unrestricted)

+ Add Credentials

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

	ID	Name	Kind	Description	
🔍	github-ssh-key	ynakonechna	SSH Username with private key		🔧

Icon: S   M   L

Public profile
Account
Appearance
Accessibility
Notifications

Access

Billing and plans
Emails

SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

Authentication Keys

jenkins_key
SHA256:7nF4dpHKi5V3DA43tIZcJ7D1eust0onHUIePVQE57v8
Added on Aug 22, 2023
Never used — Read/write
SSH

Delete

Check out our guide to generating SSH keys or troubleshoot common SSH problems.

Dashboard > Pipeline_2 > Configuration

[Plain text] Preview

Configuration

General
Branch Sources
Build Configuration
Scan Multibranch Pipeline Triggers
Orphaned Item Strategy
Appearance
Health metrics
Properties

Branch Sources

Git
Project Repository ?

git@github.com:ynakonechna/DevOps_course.git

Credentials ?

ynakonechna

Add ▾

Behaviors

Discover branches
?

Add ▾

Save   Apply

Dashboard > Pipeline_2 > Configuration

Configuration

General
Branch Sources
Build Configuration
Scan Multibranch Pipeline Triggers
Orphaned Item Strategy
Appearance
Health metrics
Properties

Behaviors

Discover branches
?

Filter by name (with wildcards)
Include ?

main dev

Exclude ?

Add ▾

Property strategy

All branches get the same properties

Add property ▾

Save   Apply

Add source ▾

Configuration

- ⚙ General
- ⚙ Branch Sources
- ⚙ Build Configuration
- ⚙ Scan Multibranch Pipeline Triggers
- ⚙ Orphaned Item Strategy
- 🎨 Appearance
- 〰 Health metrics
- 🔧 Properties

Build Configuration

Mode

by Jenkinsfile ▾

Script Path ?

jenkins/Jenkinsfile

Scan Multibranch Pipeline Triggers

☐ Periodically if not otherwise run ?

Orphaned Item Strategy

Jobs for removed SCM heads (i.e. deleted branches) can be removed immediately or kept based on a desired retention strategy. By default, jobs will be removed as soon as Jenkins determines their associated SCM head no longer exists. As an example, it may be useful to configure a different retention strategy to be able to examine build results of a branch after it has been removed.

Save   Apply

← → C ▲ Не защищено | 16.171.208.182:8080/manage/configureSecurity/

Hidden security warnings

Security warnings ▾

API Token

☐ Generate a legacy API token for each newly created user (Not recommended) ?

☐ Allow users to manually create a legacy API token (Not recommended) ?

☑ Enable API Token usage statistics ?

Git Host Key Verification Configuration

Host Key Verification Strategy ?

Accept first connection ▾

Status

Configure

Scan Multibranch Pipeline Now

Scan Multibranch Pipeline Log

View as plain text

Multibranch Pipeline Events

Delete Multibranch Pipeline

People

Build History

Project Relationship

Check File Fingerprint

Rename

Pipeline Syntax

Credentials

Build Queue ⌄

No builds in the queue.

Build Executor Status ⌄

✅ Scan Multibranch Pipeline Log

```
Started by user Yulia Nakonechna
[Tue Aug 22 19:54:58 UTC 2023] Starting branch indexing...
 > git --version # timeout=10
 > git --version # 'git version 2.25.1'
using GIT_SSH to set credentials
Verifying host key using known hosts file, will automatically accept unseen keys
 > git ls-remote --symref -- git@github.com:ynakonechna/DevOps_course.git # timeout=10
 > git rev-parse --resolve-git-dir /var/lib/jenkins/caches/git-09f184719fe3b3cb819f87c29d1c363a/.git # timeout=10
Setting origin to git@github.com:ynakonechna/DevOps_course.git
 > git config remote.origin.url git@github.com:ynakonechna/DevOps_course.git # timeout=10
Fetching & pruning origin...
Listing remote references...
 > git config --get remote.origin.url # timeout=10
 > git --version # timeout=10
 > git --version # 'git version 2.25.1'
using GIT_SSH to set credentials
Verifying host key using known hosts file, will automatically accept unseen keys
 > git ls-remote -h -- git@github.com:ynakonechna/DevOps_course.git # timeout=10
Fetching upstream changes from origin
 > git config --get remote.origin.url # timeout=10
using GIT_SSH to set credentials
Verifying host key using known hosts file, will automatically accept unseen keys
 > git fetch --tags --force --progress --prune -- origin +refs/heads/*:refs/remotes/origin/* # timeout=10
Checking branches...
  Checking branch main
    'jenkins/Jenkinsfile' found
    Met criteria
No changes detected: main (still at fc0c2d13ec5a4272ced58303c79af87f842a7b57)
Processed 1 branches
[Tue Aug 22 19:55:02 UTC 2023] Finished branch indexing. Indexing took 3.4 sec
Finished: SUCCESS
```

← → C ⚠ Не защищено | 16.171.208.182:8080/manage/pluginManager/installed

Jenkins

Search (CTRL+K) | ⓘ 1 | Yulia Nakonechna ⌄

Updates

Available plugins

Installed plugins

Advanced settings

Download progress

Plugins

🔍 multibranch scan ⊗

Name ↓	Enabled
Multibranch Scan Webhook Trigger 1.0.9 Trigger that can receive any HTTP request and trigger a multibranch job scan when token matched. Report an issue with this plugin	🔵

← → C ⚠ Не защищено | 16.171.208.182:8080/job/Pipeline_2/configure

Configuration

by Jenkinsfile ⌄

General

Branch Sources

Build Configuration

Scan Multibranch Pipeline Triggers

Orphaned Item Strategy

Appearance

Health metrics

Properties

Script Path ?

jenkins/Jenkinsfile

Scan Multibranch Pipeline Triggers

☐ Periodically if not otherwise run ?

☑ Scan by webhook ?

Trigger token ?

trigger

☰ ◉ ynakonechna / **DevOps_course**

🔍 Type / to search

<> Code ◉ Issues ⭢ Pull requests ◉ Actions ▦ Projects ▭ Wiki ◉ Security �📈 Insights ⚙ Settings

⚙ General

Access

👥 Collaborators

🗨 Moderation options   ⌄

Code and automation

⅄ Branches

🏷 Tags

⤷ Rules   ⌄

◉ Actions   ⌄

🔗 Webhooks

▦ Environments

🖥 Codespaces

🗔 Pages

Webhooks / Manage webhook

Settings   Recent Deliveries

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, etc). More information can be found in our developer documentation.

Payload URL *

http://16.171.208.182:8080/multibranch-webhook-trigger/invoke?to

Content type

application/x-www-form-urlencoded ⇅

Secret

🎩 **Jenkins**

🔍 Search (CTRL+K) ⑦   🛡 1   ◉ Yulia Nakonechna ⌄

Dashboard > Pipeline_2 > main > #4

📄 Status

</> Changes

▤ Console Output

📄 View as plain text

☑ Edit Build Information

🗑 Delete build '#4'

◈ Git Build Data

◉ Restart from Stage

↪ Replay

☰ Pipeline Steps

▢ Workspaces

← Previous Build

✓ Console Output

```
Branch indexing
 > git rev-parse --resolve-git-dir /var/lib/jenkins/caches/git-09f184719fe3b3cb819f87c29d1c363a/.git # timeout=10
Setting origin to git@github.com:ynakonechna/DevOps_course.git
 > git config remote.origin.url git@github.com:ynakonechna/DevOps_course.git # timeout=10
Fetching origin...
Fetching upstream changes from origin
 > git --version # timeout=10
 > git --version # 'git version 2.25.1'
 > git config --get remote.origin.url # timeout=10
using GIT_SSH to set credentials
Verifying host key using known hosts file, will automatically accept unseen keys
 > git fetch --tags --force --progress -- origin +refs/heads/*:refs/remotes/origin/* # timeout=10
Seen branch in repository origin/main
Seen 1 remote branch
Obtained jenkins/Jenkinsfile from 1b56264902d6ad5d50458054fdb5a0868467486f
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/Pipeline_2_main
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
```

Jeknins pipeline to dentoy nginx ec2

Download progress

Updates

Available plugins

Installed plugins

Advanced settings

Download progress

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

SSH server	✓ Success
Multibranch Scan Webhook Trigger	✓ Success
Loading plugin extensions	✓ Success
Amazon Web Services SDK :: Minimal	✓ Success
Amazon Web Services SDK :: EC2	✓ Success
CloudBees AWS Credentials	✓ Success
Oracle Java SE Development Kit Installer	✓ Success
Command Agent Launcher	✓ Success
Amazon Web Services SDK :: SQS	✓ Success
Amazon Web Services SDK :: SNS	✓ Success
Amazon Web Services SDK :: CloudFormation	✓ Success
Amazon Web Services SDK :: Elastic Beanstalk	✓ Success
Amazon Web Services SDK :: ECS	✓ Success
Amazon Web Services SDK :: IAM	✓ Success
Amazon Web Services SDK :: ECR	✓ Success
Amazon Web Services SDK :: EFS	✓ Success
Amazon Web Services SDK :: SSM	✓ Success
Amazon Web Services SDK :: kinesis	✓ Success
Amazon Web Services SDK :: Logs	✓ Success
Amazon Web Services SDK :: CodeBuild	✓ Success
Amazon Web Services SDK :: Secrets Manager	✓ Success
Amazon Web Services SDK :: All	✓ Success
Pipeline: AWS Steps	✓ Success
Loading plugin extensions	✓ Success

```
You can now run: /usr/local/bin/aws --version
ubuntu@ip-172-31-41-25:~$ aws --version
aws-cli/2.13.12 Python/3.11.4 Linux/5.15.0-1036-aws exe/x86_64.ubuntu.20 prompt/off
ubuntu@ip-172-31-41-25:~$
```

Files

⌥ main

Q Go to file

> ▸ 📁 Linux_dns_networking
∨ 📁 jenkins
  📄 Jenkinsfile
  📄 userdata
  📄 README.md

DevOps_course / jenkins / Jenkinsfile

ynakonechna Update Jenkinsfile   d97724b · now ⟲ History

Code Blame   90 lines (80 loc) · 3.5 KB   Raw 🗍 ⌄ ✎ ▾ ⟷

```groovy
 1   pipeline {
 2       agent any
 3
 4       parameters {
 5           choice(name: 'choice', choices: ['','deploy','destroy'], description: 'choose a value')
 6       }
 7
 8       environment {
 9           SSH_CREDENTIALS = credentials('key')
10       }
11
12       stages {
13           stage('Deploy') {
14               when {
15                   expression {
16                       params.choice == 'deploy'
17                   }
18               }
19               // \$(base64 -w 0 jenkins/userdata)
20               steps {
21                   script {
22                       withAWS(role:"jenkins", roleSessionName: "role", useNode: true){
23                           INSTANCE_ID   = sh(script: """aws ec2 describe-instances --filters "Name=instance-state-name,Values=running" "Name=tag:Name,Values=demo-server" --query "Reservations[].Instances[].InstanceId" --output
24                           if (INSTANCE_ID == '') {
25                               sh """
26                               aws ec2 run-instances \
27   --image-id ami-08766f81ab52792ce \
28   --count 1 \
29   --instance-type t3.micro \
30   --key-name j_key \
31   --security-group-ids sg-05e0eaab7ba23bf57 \
32   --subnet-id subnet-071874fe08c34005a \
33   --block-device-mappings '[{\"DeviceName\":\"/dev/sdf\",\"Ebs\":{\"VolumeSize\":30,\"DeleteOnTermination\":true}}]' \
34   --tag-specifications 'ResourceType=instance,Tags=[{Key=Name,Value=demo-server}]' 'ResourceType=volume,Tags=[{Key=Name,Value=demo-server-disk}]'
35                               """
36                           }
37
38                       }
39                   }
40
41               }
42
43           }
44
45           stage('SSH to Remote Server') {
46               when {
47                   expression {
48                       params.choice == 'deploy'
49                   }
50               }
51               steps {
52                   sleep(10)
53                   script {
54                       INSTANCE_ID   = sh(script: """aws ec2 describe-instances --filters "Name=instance-state-name,Values=running" "Name=tag:Name,Values=demo-server" --query "Reservations[].Instances[].InstanceId" --output
55                       INSTANCE_IP   = sh(script: """aws ec2 describe-instances --filters "Name=instance-state-name,Values=running" "Name=tag:Name,Values=demo-server" --query "Reservations[].Instances[].PublicIpAddress" --o
56                       echo INSTANCE_ID
57                       sh "aws ec2 wait instance-running --instance-ids ${INSTANCE_ID}"
58                       sh """
59                           ssh -i ${env.SSH_CREDENTIALS} -o StrictHostKeyChecking=no -o UserKnownHostsFile=/dev/null \
60                           ubuntu@${INSTANCE_IP} 'sudo apt-get update && sudo apt-get install nginx -y'
61                       """
62                   }
63               }
64           }
65
66           stage('Destroy') {
67               when {
68                   expression {
69                       params.choice =='destroy'
```

```
70                    }
71                }
72            steps {
73                script {
74                    withAWS(role:"jenkins", roleSessionName: "role", useNode: true){
75                        INSTANCE_ID  = sh(script: """aws ec2 describe-instances --filters "Name=instance-state-name,Values=running" "Name=tag:Name,Values=demo-server" --query "Reservations[].Instances[].InstanceId" --ou
76                        echo INSTANCE_ID
77                        sh "aws ec2 terminate-instances --instance-ids $INSTANCE_ID"
78                    }
79
80                }
81            }
82        }
83    }
84    post {
85        always {
86            cleanWs()
87        }
88    }
89 }
```


Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.