

AWS PROJECT

1. CREATE 2 IAM USERS NAMED DEV AND OPS, NOW CREATE A GROUP NAMED DEVOPS AND ADD BOTH USERS TO THIS GROUP.

2. ADD BELOW PERMISSIONS TO THIS GROUP:

- a. USERS SHOULD BE ABLE TO CREATE ACCESS KEYS BUT FOR USERS IN THEIR GROUP ONLY.
- b. USERS SHOULD BE ABLE TO LAUNCH AN EC2 INSTANCE.
- c. USERS SHOULD BE ABLE TO ESTABLISH SSH CONNECTION VIA BROWSER TO LINUX INSTANCES.

3. LOGIN FROM EITHER DEV OR OPS USER.

4. CREATE AN ACCESS KEY FOR THE USER.

5. LAUNCH AN EC2 INSTANCE AND SSH VIA BROWSER.

The screenshot shows a browser window with the AWS IAM 'Create user' wizard. The URL is us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create. The page title is 'Specify user details'. On the left, there's a navigation sidebar with 'Step 1: Specify user details', 'Step 2: Set permissions', and 'Step 3: Review and create'. The main form has a 'User name' field containing 'Dev'. Below it, a note says: 'The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = . @ _ - (hyphen)'. There's an optional checkbox for 'Provide user access to the AWS Management Console - optional' with a note: 'If you're providing console access to a person, it's a best practice [link] to manage their access in IAM Identity Center.' A callout box at the bottom right of the form area says: 'If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. [Learn more](#)'.

Jul 14 3:23 PM

us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create

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Services Search [Alt+S]

IAM > Users > Create user

Specify user details

User details

User name: Ops

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (hyphen)

Provide user access to the AWS Management Console - optional
If you're providing console access to a person, it's a best practice [to manage their access in IAM Identity Center](#).

If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keypairs, you can generate them after you create this IAM user. [Learn more](#)

Cancel Next

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Identity and Access Management (IAM)

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Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access Analyzer

External access

IAM > Users

Users (2) Info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

Create user

User name	Path	Group	Last activity	MFA	Password age
Dev	/	0	-	-	-
Ops	/	0	-	-	-

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us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/groups/create

Create user group

Name the group

User group name

DevOps

Add users to the group - Optional (2/2)

User name	Groups	Last activity	Creation time
Dev	0	None	2 minutes ago
Ops	0	None	1 minute ago

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us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/groups

User groups (1)

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

Group name	Users	Permissions	Creation time
DevOps	2	Not defined	Now

Identity and Access Management (IAM)

User groups

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AllowCreateAccessKeyForDevOps

us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/policies/details/arn%3Aaws%3Aiam%3A767397858760%3APolicy%2FAllowCreateAccessKeyForDevOps

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Identity and Access Management (IAM)

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External access

Permissions Entities attached Tags Policy versions (2) Access Advisor

Permissions defined in this policy Info

Copy Edit Summary JSON

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it.

```
1 "Version": "2012-10-17",
2 "Statement": [
3     {
4         "Effect": "Allow",
5         "Action": [
6             "iam:CreateAccessKey",
7             "iam>ListUsers",
8             "iam>ListAccessKeys"
9         ],
10        "Resource": "*",
11        "Condition": {
12            "StringLike": {
13                "aws:username": [
14                    "Dev",
15                    "Ops"
16                ]
17            }
18        }
19    }
20 ]
```

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IAM > Policies > Create policy

Step 1 Specify permissions

Review and create Info

Review the permissions, specify details, and tags.

Step 2 Review and create

Policy details

Policy name

Enter a meaningful name to identify this policy.

AllowCreateAccessKeyForDevOps

Maximum 128 characters. Use alphanumeric and '+-, @-' characters.

Description - optional

Add a short explanation for this policy.

AllowCreateAccessKeyForDevOps

Maximum 1,000 characters. Use alphanumeric and '+-, @-' characters.

Permissions defined in this policy Info

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it.

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Services Search [Alt+S]

Maximum 1,000 characters. Use alphanumeric and '+-,@_-.' characters.

Permissions defined in this policy Info

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it.

Search

Allow (1 of 420 services)

Show remaining 419 services

Service	Access level	Resource	Request condition
IAM	Limited: List, Write	All resources	aws:username string like Dev,Ops

Add tags - optional Info

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel Previous

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Edit policy | IAM | Global x +

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Training Invite is the host now

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Step 2 Review and save

Policy editor

Visual JSON Actions

Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

+ Add new statement

```
1 "Version": "2012-10-17",
2 "Statement": [
3     {
4         "Effect": "Allow",
5         "Action": [
6             "ec2:RunInstances",
7             "ec2:DescribeInstances",
8             "ec2:DescribeImages",
9             "ec2:DescribeKeyPairs",
10            "ec2:DescribeVpcs",
11            "ec2:DescribeSubnets",
12            "ec2:DescribeSecurityGroups",
13            "ec2:DescribeNetworkInterfaces",
14            "ec2>CreateNetworkInterface",
15            "ec2:AttachNetworkInterface",
16            "ec2:CreateTags"
17        ],
18        "Resource": "*"
19    }
20]
```

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us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/policies/create

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Review and create Info

Review the permissions, specify details, and tags.

Step 1
Specify permissions

Step 2
Review and create

Policy details

Policy name
Enter a meaningful name to identify this policy.

Maximum 128 characters. Use alphanumeric and '+-,@-_ characters.

Description - optional
Add a short explanation for this policy.

Maximum 1,000 characters. Use alphanumeric and '+-,@-_ characters.

Permissions defined in this policy Info

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it.

Search

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IAM Services Search [Alt+S]

Maximum 1,000 characters. Use alphanumeric and '+-,@-_ characters.

Permissions defined in this policy Info

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it.

Search Show remaining 419 services

Allow (1 of 420 services)

Service	Access level	Resource	Request condition
EC2	Limited: Write	All resources	None

Add tags - optional Info

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

Add new tag You can add up to 50 more tags.

Create policy Previous Cancel

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IAM > Policies > Create policy

Step 1 Specify permissions

Step 2 Review and create

Specify permissions Info

Add permissions by selecting services, actions, resources, and conditions. Build permission statements using the JSON editor.

Policy editor

Visual JSON Actions ▾

```
1 ▼ {
2     "Version": "2012-10-17",
3     "Statement": [
4         {
5             "Effect": "Allow",
6             "Action": "ec2-instance-connect:SendSSHPublicKey",
7             "Resource": "arn:aws:ec2:us-east-1:767397858768:instance/*"
8         }
9     ]
10 }
11 |
```

Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

+ Add new statement

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IAM > Policies > Create policy

Step 1 Specify permissions

Step 2 Review and create

Review and create Info

Review the permissions, specify details, and tags.

Policy details

Policy name
Enter a meaningful name to identify this policy.

Maximum 128 characters. Use alphanumeric and '+-, @_, -' characters.

Description - optional
Add a short explanation for this policy.

Maximum 1,000 characters. Use alphanumeric and '+-, @_, -' characters.

Permissions defined in this policy Info

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it.

Q Search Edit

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us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/policies/create

Permissions defined in this policy [Info](#)

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it.

Allow (1 of 420 services)

Service	Access level	Resource	Request condition
EC2 Instance Connect	Limited: Write	InstanceId string like All, region string like us-east-1	None

Add tags - optional [Info](#)

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel Previous Create policy

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us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/policies

Identity and Access Management (IAM)

Policies (1221) [Info](#)

A policy is an object in AWS that defines permissions.

Filter by Type

Policy name	Type	Used as	Description
AllowCreateAccessKeyForDevOps	Customer managed	None	AllowCreateAccessKeyForDe
AllowLaunchEC2Instances	Customer managed	None	AllowLaunchEC2Instanc
AllowSSHBrowserConnect	Customer managed	None	AllowSSHBrowserConnect

Actions Delete Create policy

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Identity and Access Management (IAM)

Search IAM

Dashboard

Access management User groups Users Roles Policies Identity providers Account settings

Access reports Access Analyzer External access

CloudShell Feedback

us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/groups/details/DevOps?section=permissions

IAM > User groups > DevOps DevOps Info Delete Edit

Summary

User group name: DevOps Creation time: July 14, 2024, 15:26 (UTC+05:30) ARN: arn:aws:iam::767397858768:group/De vOps

Users (2) Permissions Access Advisor

Permissions policies (3) Info You can attach up to 10 managed policies.

Filter by Type: All types

Search Add permissions

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us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/groups/details/DevOps?section=permissions

IAM > User groups > DevOps DevOps

User group name: DevOps Creation time: July 14, 2024, 15:26 (UTC+05:30) ARN: arn:aws:iam::767397858768:group/De vOps

Users (2) Permissions Access Advisor

Permissions policies (3) Info You can attach up to 10 managed policies.

Filter by Type: All types

Search Add permissions

Policy name	Type	Attached entities
AllowCreateAccessKeyForDevOps	Customer managed	1
AllowLaunchEC2Instances	Customer managed	1
AllowSSHBrowserConnect	Customer managed	1

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IAM > Users > Dev

Identity and Access Management (IAM)

Dev Info

Enable console access

Enable console access for Dev.

Console password

Autogenerated password

Custom password

Must be at least 8 characters long
Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols ! @ # % ^ & * () _ + - (hyphen) = [] { }

Show password

User must create new password at next sign-in

Users automatically get the IAMUserChangePassword policy to allow them to change their own password.

Access key 1 Create access key

Cancel Enable console access

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This screenshot shows the 'Enable console access' dialog box for a user named 'Dev'. The 'Custom password' field contains '*****'. A note below it specifies password requirements: at least 8 characters long, including three mixtures of uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols (! @ # % ^ & * () _ + - (hyphen) = [] { }). There are checkboxes for 'Show password' and 'User must create new password at next sign-in'. At the bottom are 'Cancel' and 'Enable console access' buttons.

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IAM > Users > Dev

Identity and Access Management (IAM)

Dev Info

Summary

ARN arn:aws:iam::767397858768:user/Dev

Console access Enabled without MFA

Access key 1 Create access key

Created July 14, 2024, 15:23 (UTC+05:30)

Last console sign-in Never

Permissions Groups (1) Tags Security credentials Access Advisor

Console sign-in

Console sign-in link https://767397858768.signin.aws.amazon.com/console

Console password Updated Now (2024-07-14 15:40 GMT+5:30)

Last console sign-in Never

Manage console access

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This screenshot shows the 'Dev' user profile in the AWS IAM console. Under the 'Security credentials' tab, it displays the 'Console access' status as 'Enabled without MFA'. Below this, it shows the user was created on July 14, 2024, at 15:23 UTC+05:30. The 'Last console sign-in' is listed as 'Never'. The 'Console sign-in' section shows a link to the AWS sign-in console and the most recent update to the console password, which occurred on July 14, 2024, at 15:40 GMT+5:30. A 'Manage console access' button is located in this section.

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eu-north-1.signin.aws.amazon.com/oauth?client_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code_challenge=EP0jzRnY0pVr8... [Learn more](#)

Sign in as IAM user

Account ID (12 digits) or account alias
767397858768

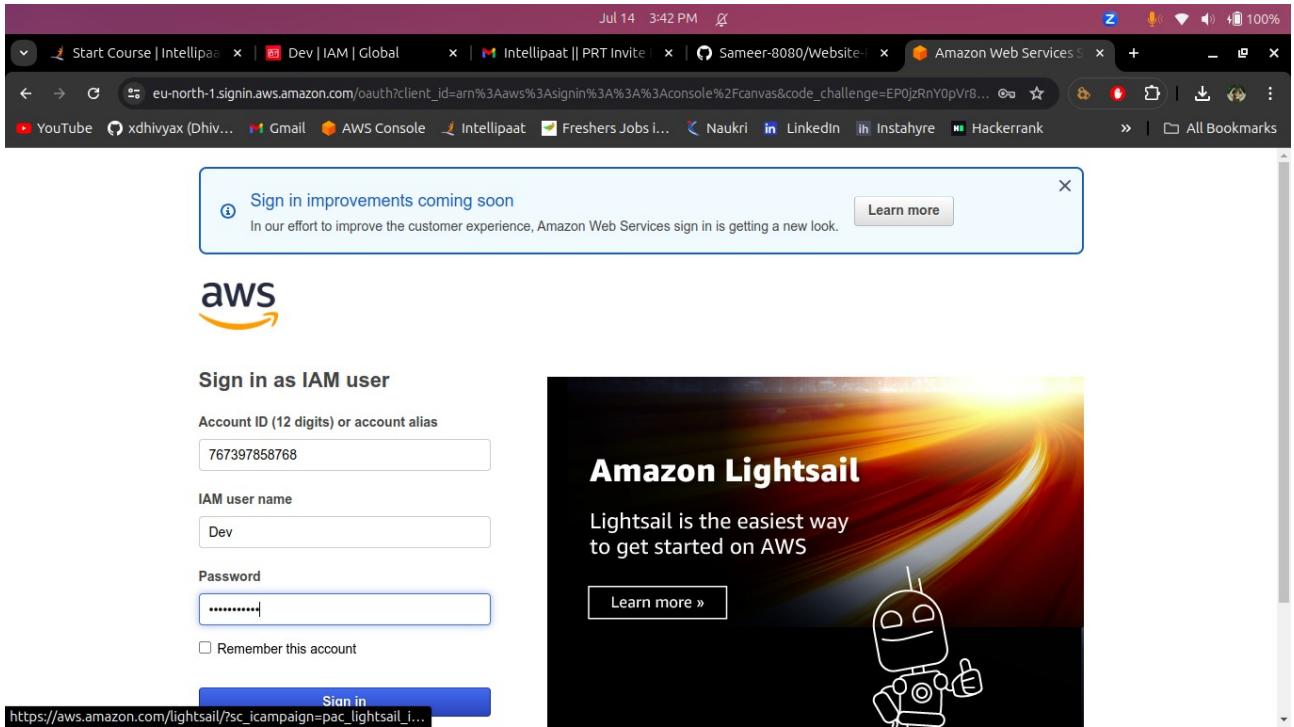
IAM user name
Dev

Password

Remember this account

[Sign in](https://aws.amazon.com/lightsail/?sc_icampaign=pac_lightsail_l...)

Amazon Lightsail
Lightsail is the easiest way to get started on AWS
[Learn more »](#)



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us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/details/Dev?section=permissions

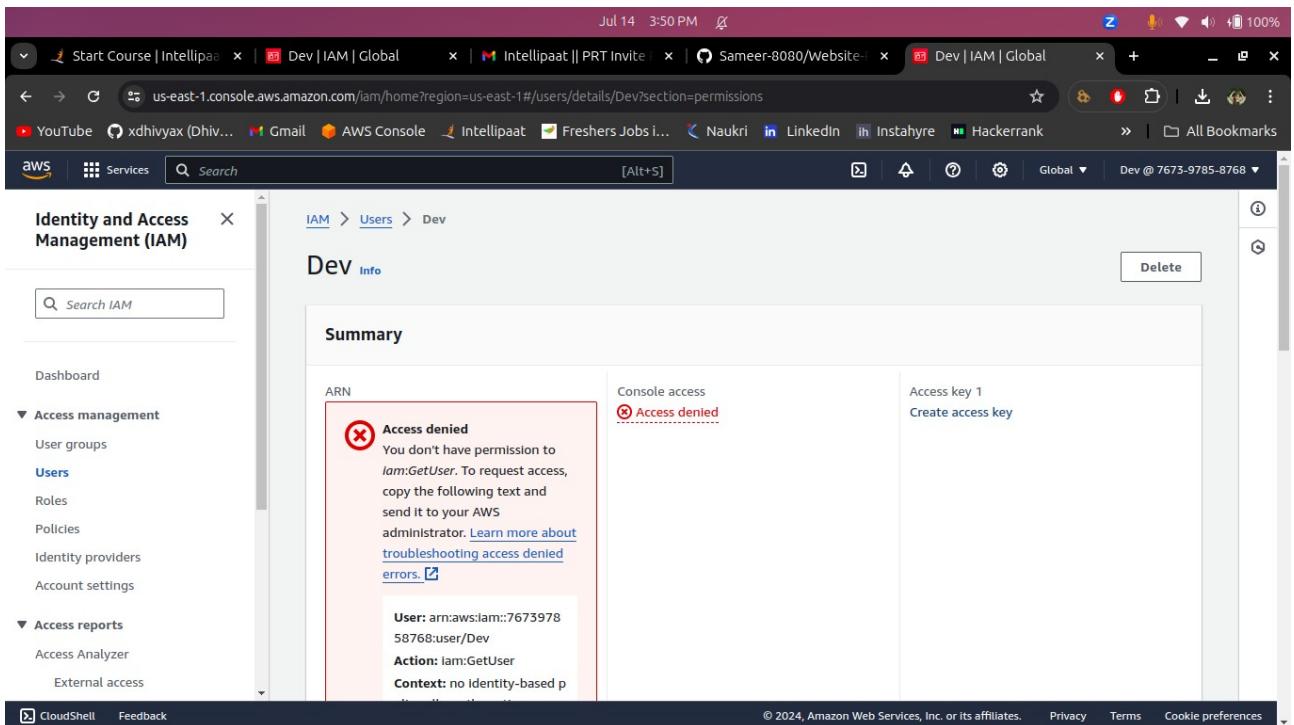
IAM > Users > Dev

Dev [Info](#) [Delete](#)

Summary

ARN	Console access	Access key 1
Access denied You don't have permission to <code>iam:GetUser</code> . To request access, copy the following text and send it to your AWS administrator. Learn more about troubleshooting access denied errors.	Access denied	Create access key
User: arn:aws:iam::767397858768:user/Dev		
Action: iam:GetUser		
Context: no identity-based p		

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us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/details/Dev/create-access-key

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Access key created

This is the only time that the secret access key can be viewed or downloaded. You cannot recover it later. However, you can create a new access key any time.

Step 1 Access key best practices & alternatives

Step 2 - optional Set description tag

Step 3 Retrieve access keys

Retrieve access keys

Access key

If you lose or forget your secret access key, you cannot retrieve it. Instead, create a new access key and make the old key inactive.

Access key	Secret access key
AKIA3FLD2BXIHFDFWJC	***** Show

Access key best practices

- Never store your access key in plain text, in a code repository, or in code.
- Disable or delete access key when no longer needed.
- Enable least-privilege permissions.
- Rotate access keys regularly.

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

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EC2 > Instances > Launch an instance

Launch an instance

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

Name: server created by dev user Add additional tags

Application and OS Images (Amazon Machine Image)

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

Summary

Number of Instances: 1

Software Image (AMI): Amazon Linux 2023 AMI 2023.5.2...read more ami-0b72821e2f551e396

Virtual server type (instance type): -

Firewall (security group): New security group

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

Cancel Launch instance Review commands

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

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EC2 Instances Launch an instance

Success Successfully initiated launch of instance (i-0b8a7e7d148726d7a)

Launch log

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

Create billing alerts

Connect to your instance

Once your instance is running, log into it from your local computer.

Connect to instance

Learn more

Connect an RDS database

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

Connect an RDS database

Create EBS snapshot policy

Create a policy that automates the creation, retention, and deletion of EBS snapshots.

Create EBS snapshot policy

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-0b8a7e7d148726d7a

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aws Services Search [Alt+S]

EC2 Dashboard EC2 Global View Events Console-to-Code Preview

EC2 Instances i-0b8a7e7d148726d7a

Instance summary for i-0b8a7e7d148726d7a (server created by dev user) Info

C Connect Instance state Actions

Updated less than a minute ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0b8a7e7d148726d7a (server created by dev user)	100.24.45.244 open address	172.31.86.251

IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-100-24-45-244.compute-1.amazonaws.com open address

Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-86-251.ec2.internal	ip-172-31-86-251.ec2.internal	Failed to retrieve Elastic IP addresses

Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
IPv4 (A)	t2.micro	Failed to retrieve Auto-assigned IP address

Auto-assigned IP address	VPC ID
Failed to retrieve Auto-assigned IP address	vpc-0b6ed3457eb1fb30f

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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-172-31-86-251:~\$

i-0b8a7e7d148726d7a (server created by dev user)

Public IPs: 100.24.45.244 Private IPs: 172.31.86.251

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