

ASSIGNMENT-1

CREATING EC-2 INSTANCE

Subscription Details | StackRoute x Launch instance wizard | EC2 M... x +

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances Launch into Auto Scaling Group

Purchasing option ☐ Request Spot instances

Network Create new VPC

Subnet Create new subnet
4091 IP Addresses available

Auto-assign Public IP

Hostname type

DNS Hostname ☒ Enable IP name IPv4 (A record) DNS requests
☒ Enable resource-based IP (A record) DNS requests

Cancel Previous Review and Launch Next: Add Storage

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SECURITY GROUP

Subscription Details | StackRoute x Launch instance wizard | EC2 M... x +

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group
☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Anywhere 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Anywhere 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

Add Rule

Cancel Previous Review and Launch

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KEY PAIR

The screenshot shows the 'Launch instance wizard' in the AWS Management Console. The 'Key pair' step is active, showing a description of key pairs and a note about adding the selected key pair to the instance's authorized keys. The 'Key pair type' is set to 'RSA' and the 'Key pair name' is 'assignment1'. A 'Download Key Pair' button is visible. A warning message states: 'You have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created.'

Subscription Details | StackRoute x Launch instance wizard | EC2 M... x +

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

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Description global

Type

- SSH
- SSH
- HTTP
- HTTP

Instance Details

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair

Key pair type

☒ RSA ☐ ED25519

Key pair name

assignment1

Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Edit instance details

Cancel Previous Launch

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assignment1.pem Show all x

Type here to search

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SETTING ELASTIC IP ADDRESS

The screenshot shows the 'Associate Elastic IP address' step in the AWS Management Console. The 'Resource type' is set to 'Instance'. A warning message states: 'If you associate an Elastic IP address to an instance that already has an Elastic IP address associated, this previously associated Elastic IP address will be disassociated but still allocated to your account. Learn more'. The 'Instance' field is populated with 'i-0eb6ae984df0fbe0e'. The 'Private IP address' field is populated with '172.31.58.196'. The 'Reassociation' checkbox is unchecked. 'Associate' and 'Cancel' buttons are at the bottom.

Subscription Details | StackRoute x Associate Elastic IP address | EC2 x +

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#AssociateAddress:PublicIp=44.207.23.163

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Resource type

Choose the type of resource with which to associate the Elastic IP address.

☒ Instance

☐ Network interface

If you associate an Elastic IP address to an instance that already has an Elastic IP address associated, this previously associated Elastic IP address will be disassociated but still allocated to your account. [Learn more](#)

Instance

i-0eb6ae984df0fbe0e

Private IP address

The private IP address with which to associate the Elastic IP address.

172.31.58.196

Reassociation

Specify whether the Elastic IP address can be reassociated with a different resource if it already associated with a resource.

☐ Allow this Elastic IP address to be reassociated

Cancel Associate

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Type here to search

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ASSIGNMENT-1

LOGGING INTO THE INSTANCE USING PUTTY

```
root@ip-172-31-58-196:~
Installing : httpd-filessystem-2.4.53-1.amzn2.noarch 7/9
Installing : mod_http2-1.15.19-1.amzn2.0.1.x86_64 8/9
Installing : httpd-2.4.53-1.amzn2.x86_64 9/9
Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64 1/9
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Verifying : mod_http2-1.15.19-1.amzn2.0.1.x86_64 3/9
Verifying : httpd-filessystem-2.4.53-1.amzn2.noarch 4/9
Verifying : httpd-tools-2.4.53-1.amzn2.x86_64 5/9
Verifying : mailcap-2.1.41-2.amzn2.noarch 6/9
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch 7/9
Verifying : httpd-2.4.53-1.amzn2.x86_64 8/9
Verifying : apr-1.7.0-9.amzn2.x86_64 9/9

Installed:
  httpd.x86_64 0:2.4.53-1.amzn2

Dependency Installed:
  apr.x86_64 0:1.7.0-9.amzn2          apr-util.x86_64 0:1.6.1-5.amzn2.0.2    apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2
  generic-logos-httpd.noarch 0:18.0.0-4.amzn2    httpd-filessystem.noarch 0:2.4.53-1.amzn2    httpd-tools.x86_64 0:2.4.53-1.amzn2
  mailcap.noarch 0:2.1.41-2.amzn2      mod_http2.x86_64 0:1.15.19-1.amzn2.0.1

Complete!
[root@ip-172-31-58-196 ~]# systemctl enable --now httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-58-196 ~]# status httpd
-bash: status: command not found
[root@ip-172-31-58-196 ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Sun 2022-06-12 06:01:16 UTC; 19s ago
     Docs: man:httpd.service(8)
   Main PID: 3682 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
   CGroup: /system.slice/httpd.service
           └─3682 /usr/sbin/httpd -DFOREGROUND
             └─3683 /usr/sbin/httpd -DFOREGROUND
               └─3684 /usr/sbin/httpd -DFOREGROUND
                 └─3685 /usr/sbin/httpd -DFOREGROUND
                   └─3686 /usr/sbin/httpd -DFOREGROUND
                     └─3687 /usr/sbin/httpd -DFOREGROUND

Jun 12 06:01:16 ip-172-31-58-196.ec2.internal systemd[1]: Starting The Apache HTTP Server...
Jun 12 06:01:16 ip-172-31-58-196.ec2.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-58-196 ~]#
```

DEPLOYED WEBSITE

