

yum; Yellowdog Updater Modified

- yum 은 사용 가능한 패키지에 대한 정보를 쿼리하고, 리포지토리에서 패키지를 가져와 설치 및 제거한 다음 전체 시스템을 사용 가능한 최신 버전으로 업데이트할 수 있는 Red Hat 패키지 관리자입니다.
- yum은 패키지를 업데이트, 설치 또는 제거할 때 자동 종속성 확인을 수행하므로 사용 가능한 모든 종속 패키지를 자동으로 확인, 가져오기 및 설치할 수 있습니다.

단계1: 모든 패키지 업데이트 및 해당 종속 항목 업데이트

```
sudo yum update
```

🔗 왼쪽 버튼을 클릭하여 현재 세션을 추가할 수 있습니다.

1 ec2-base × +

```
[ec2-user@ip-172-31-5-127 ~]$ sudo yum update
```

```
Amazon Linux 2023 Kernel Livepatch repository
```

```
142 kB/s | 15 kB 00:00
```

```
Dependencies resolved.
```

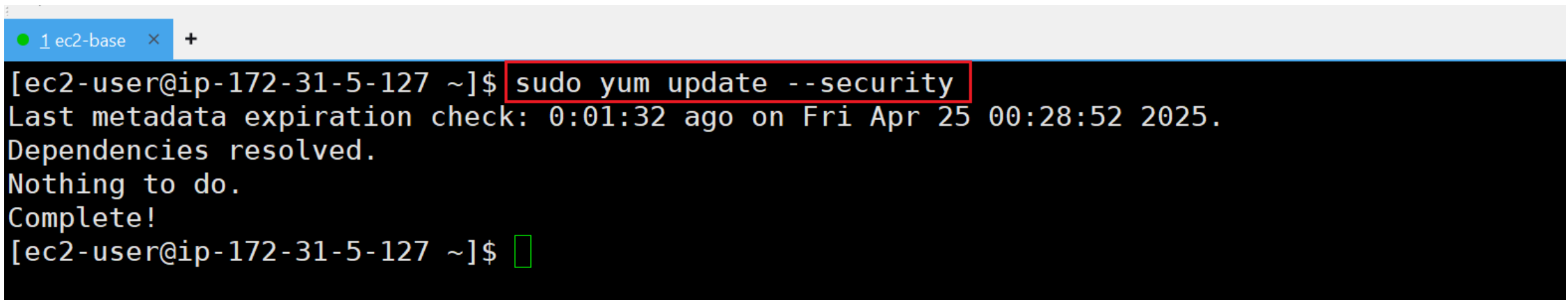
```
Nothing to do.
```

```
Complete!
```

```
[ec2-user@ip-172-31-5-127 ~]$
```

단계2: 보안 관련 패키지 업데이트

```
sudo yum update --security
```



A terminal window titled '1 ec2-base' shows the command 'sudo yum update --security' being executed. The output indicates that the metadata expiration check passed, dependencies were resolved, and no updates were found. The prompt returns to the user.

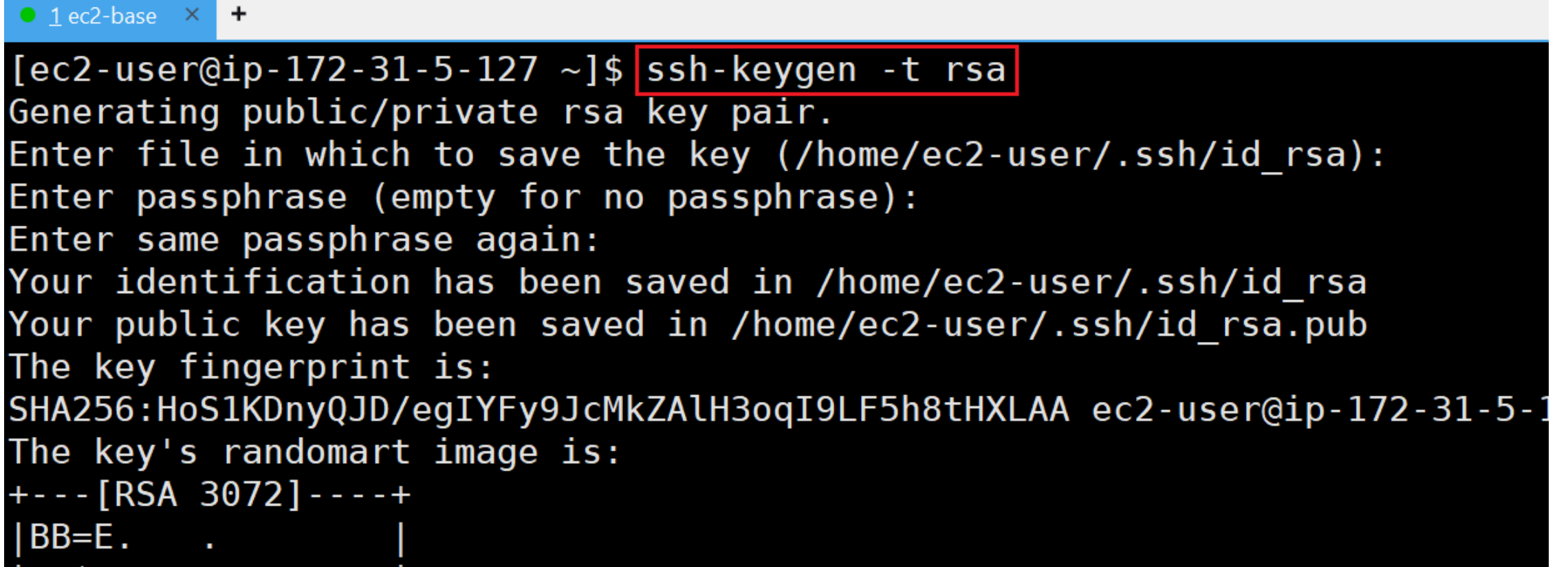
```
[ec2-user@ip-172-31-5-127 ~]$ sudo yum update --security
Last metadata expiration check: 0:01:32 ago on Fri Apr 25 00:28:52 2025.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-5-127 ~]$
```

SSH 설정

비대칭키 방식(공개 키)	대칭키 방식
<p>비대칭키 방식에서는 서버 / 사용자가 Key Pair(키 페어, 키 쌍)를 생성함.</p> <p>키 페어는 공개 키와 개인 키의 두 가지로 이루어진 한 쌍을 뜻함</p> <p>보통 공개 키의 경우 : .pub 파일 형식</p> <p>개인 키의 경우 .pem 파일 형식</p>	<p>비대칭키 방식을 통해 누구인지 알고 나서 정보를 주고 받을 때 사용.</p> <p>주고 받는 과정에서 정보가 새어나가지 않기 위해 정보를 암호화해서 주고 받는데 여기서 사용됨.</p> <p>대칭키 방식에서는 한 개의 키만을 사용함.</p>

단계1: ssh key 생성

```
# ssh key 생성  
ssh-keygen -t rsa # 이후 Enter만 세 번 입력 탁! 탁! 탁!
```



```
1 ec2-base x +  
[ec2-user@ip-172-31-5-127 ~]$ ssh-keygen -t rsa  
Generating public/private rsa key pair.  
Enter file in which to save the key (/home/ec2-user/.ssh/id_rsa):  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in /home/ec2-user/.ssh/id_rsa  
Your public key has been saved in /home/ec2-user/.ssh/id_rsa.pub  
The key fingerprint is:  
SHA256:HoS1KDnyQJD/egIYFy9JcMkZAlH3oqI9LF5h8tHXLAA ec2-user@ip-172-31-5-1  
The key's randomart image is:  
+---[RSA 3072]---+  
|BB=E. . |
```

단계2: ssh key 생성 확인

```
ls -l ~/.ssh
```

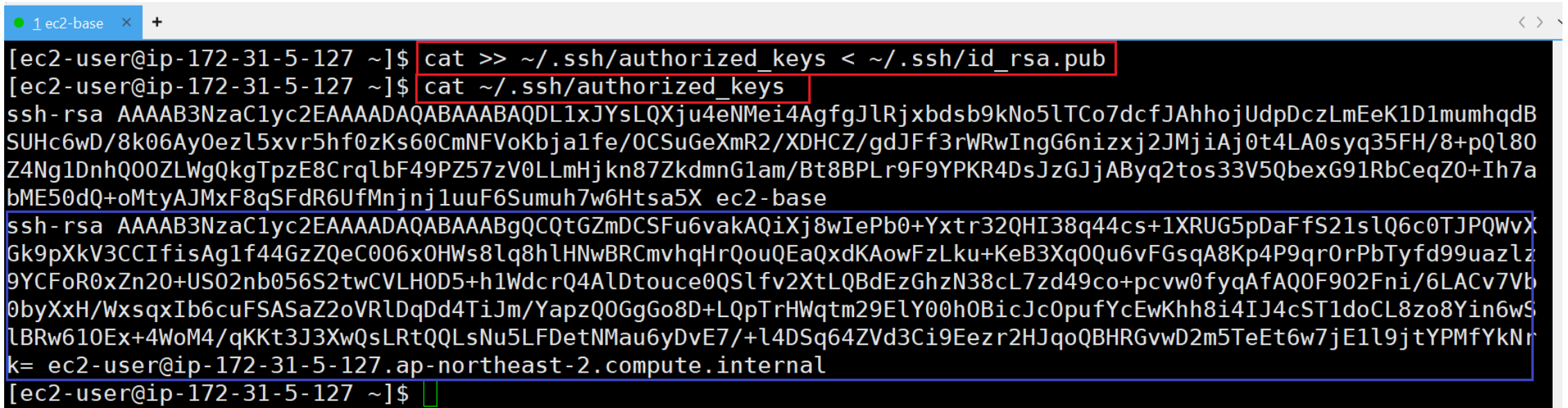
📄 왼쪽 버튼을 클릭하여 현재 세션을 추가할 수 있습니다.

1 ec2-base × +

```
[ec2-user@ip-172-31-5-127 ~]$ ls -l ~/.ssh
total 12
-rw----- . 1 ec2-user ec2-user 390 Apr 25 00:19 authorized_keys
-rw----- . 1 ec2-user ec2-user 2655 Apr 25 00:34 id_rsa
-rw-r--r-- . 1 ec2-user ec2-user 610 Apr 25 00:34 id_rsa.pub
[ec2-user@ip-172-31-5-127 ~]$
```

단계3: authorized_keys에 추가

```
# authorized_keys에 추가
cat >> ~/.ssh/authorized_keys < ~/.ssh/id_rsa.pub
# authorized_keys 확인
cat ~/.ssh/authorized_keys
```

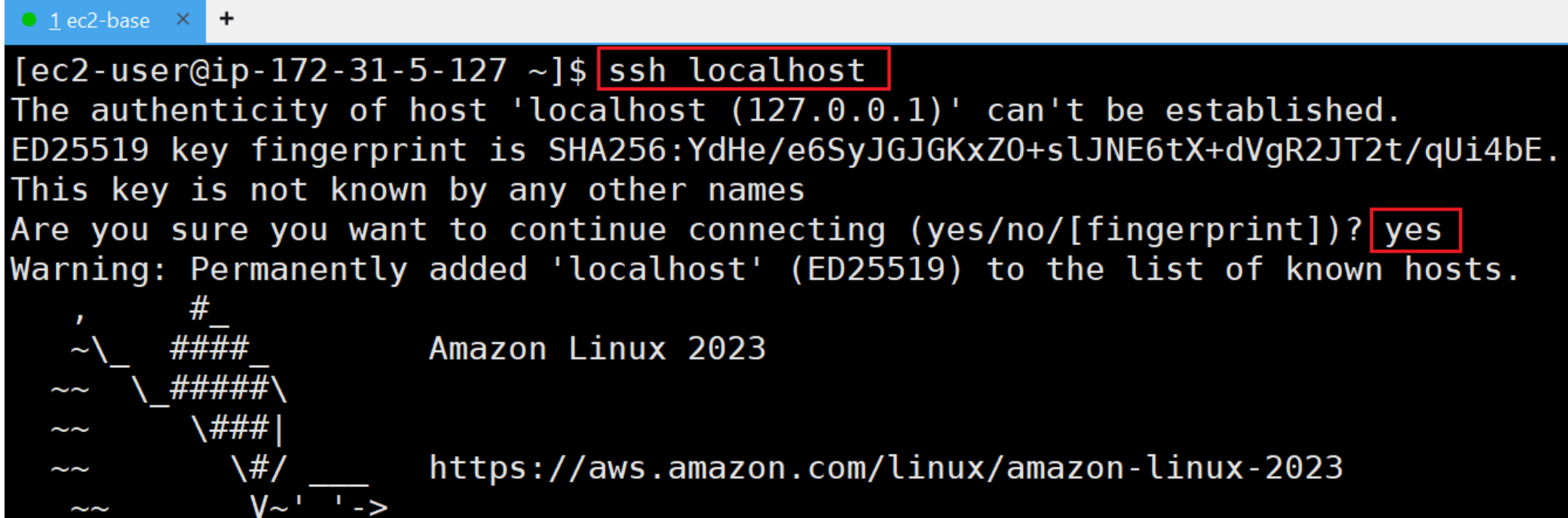


A terminal window titled '1 ec2-base' showing the following commands and output:

```
[ec2-user@ip-172-31-5-127 ~]$ cat >> ~/.ssh/authorized_keys < ~/.ssh/id_rsa.pub
[ec2-user@ip-172-31-5-127 ~]$ cat ~/.ssh/authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDL1xJYsLQXju4eNMei4AgfgJlRjxbdsb9kNo5lTCo7dcfJAhhohjUdpDczLmEeK1D1mumhqdB
SUHc6wD/8k06Ay0ezl5xvr5hf0zKs60CmNFVoKbja1fe/0CSuGeXmR2/XDHCZ/gdJFf3rWRwIngG6nizxj2JMjiAj0t4LA0syq35FH/8+pQl80
Z4Ng1DnhQ00ZLWgQkgTpzE8CrqlbF49PZ57zV0LLmHjkn87ZkdmnG1am/Bt8BPLr9F9YPKR4DsJzGJjABYq2tos33V5QbexG91RbCeqZ0+Ih7a
bME50dQ+oMtyAJMxF8qSFdR6UfMnjnj1uuF6Sumuh7w6Htsa5X ec2-base
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCQtGZmDCSFu6vakaQiXj8wIePb0+Yxtr32QHI38q44cs+1XRUG5pDaFfS21slQ6c0TJPQWvX
Gk9pXkv3CCIfisAg1f44GzZQeC006x0Hws8lq8hLHNwBRCmvhqHrQouQEaQxdKAowFzLku+KeB3Xq0Qu6vFGsqA8Kp4P9qr0rPbTyfd99uazlz
9YCFoR0xZn20+US02nb056S2twCVLH0D5+h1WdcrQ4AlDtouce0QSlfv2XtLQBDzGhZn38cL7zd49co+pcvw0fyqAfAQ0F902Fni/6LACv7Vb
0byXxH/WxsqxIb6cuFSASaZ2oVRLDqDd4TiJm/YapzQ0GgGo8D+LQpTrHWqtm29ElY00h0BicJc0pufYcEwKhh8i4IJ4cST1doCL8zo8Yin6wS
lBRw610Ex+4WoM4/qKKt3J3XwQsLRtQQLsNu5LFDetNMau6yDvE7/+l4DSq64ZVd3Ci9Eezr2HJqoQBHRGvwD2m5TeEt6w7jE1l9jtYPMfYkNr
k= ec2-user@ip-172-31-5-127.ap-northeast-2.compute.internal
[ec2-user@ip-172-31-5-127 ~]$
```

단계4: authorized_keys 테스트

```
# localhost 접속 테스트
ssh localhost
# Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```



```
[ec2-user@ip-172-31-5-127 ~]$ ssh localhost
The authenticity of host 'localhost (127.0.0.1)' can't be established.
ED25519 key fingerprint is SHA256:YdHe/e6SyJGJKxZ0+slJNE6tX+dVgR2JT2t/qUi4bE.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'localhost' (ED25519) to the list of known hosts.

      #_
    ,  _#####_
   ~\  _#####_
  ~~ \_#####\
     \#####|
     \#/_____
     V~' ' ->

Amazon Linux 2023

https://aws.amazon.com/linux/amazon-linux-2023
```


Amazon Machine Image(AMI)

- Amazon Machine Image(AMI)는 Amazon EC2 인스턴스를 설정하고 부팅하는 데 필요한 소프트웨어를 제공하는 이미지입니다.
- 또한 각 AMI에는 시작하는 인스턴스에 연결할 블록 디바이스를 지정하는 블록 디바이스 매핑이 포함되어 있습니다.

단계1: Create Image

The screenshot displays the AWS Management Console interface for EC2 instances. At the top, the 'Instances (1/1)' section is visible, showing a single instance named 'ec2-base' with ID 'i-014e8868c46a367b6'. The instance is in a 'Running' state, using the 't2.micro' instance type, and has passed all status checks. The 'Actions' button is highlighted with a red box, and its dropdown menu is open, showing options like 'Connect', 'View details', 'Manage instance state', 'Instance settings', 'Networking', 'Security', 'Image and templates', and 'Monitor and troubleshoot'. The 'Image and templates' option is also highlighted with a red box. A red arrow points to the 'Create image' option within this menu. Below the instance list, the details for the selected instance 'i-014e8868c46a367b6 (ec2-base)' are shown, including its IP address and instance type.

Instances (1/1) [Info](#)

Last updated 29 minutes ago [Refresh](#) [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

[All states](#)

<input checked="" type="checkbox"/>	Name ✎	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	ec2-base	i-014e8868c46a367b6	Running	t2.micro	2/2 checks passed	View alarms +	ap-northeast-2a

i-014e8868c46a367b6 (ec2-base)

Instance type: t2.micro

IP name: ip-172-31-5-127.ap-northeast-2.compute.internal

Answer private resource DNS name: ip-172-31-5-127.ap-northeast-2.compute.internal

Instance type: t2.micro

Elastic IP addresses: ip-172-31-5-127.ap-northeast-2.compute.internal

Create image [Info](#)

An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create an image from the configuration of an existing instance.

Instance ID

 i-014e8868c46a367b6 (ec2-base)

Image name

ec2-base

Maximum 127 characters. Can't be modified after creation.

Image description - *optional*

Image description

Maximum 255 characters


☐ Reboot instance

When selected, Amazon EC2 reboots the instance so that data is at rest when snapshots of the attached volumes are taken. This ensures data consistency.

Instance volumes

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
EBS ▼	/dev/x... ▼	Create new snapshot from v... ▼	8	EBS General Purpose SSD - ... ▼	3000		<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable

Add volume

 During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes.

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

☒ **Tag image and snapshots together**
Tag the image and the snapshots with the same tag.

☐ **Tag image and snapshots separately**
Tag the image and the snapshots with different tags.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

 [Cancel](#) [Create image](#)

단계2: 생성 확인

☰

EC2 > AMIs

EC2

<

Dashboard

EC2 Global View

Events

▶ Instances

▼ Images

AMIs

AMI Catalog

▶ Elastic Block Store

Amazon Machine Images (AMIs) (1/1) Info

Owned by me Find AMI by attribute or tag

☑

Name

AMI name

AMI ID

Source

Owner

Visibility

Status

Creation date

☑

ec2-base

ami-0794402cfe1beb8a9

426653742...

426653742...

Private

✓ Available

2025/04/25 09:56 GMT+

AMI ID: ami-0794402cfe1beb8a9