Creating AMI from existing instance

```
[ec2-user@ip-172-31-55-169 ~]$ aws ec2 create-image --instance-id i-09961d788c7543e95 --name 677_test_image --region us-east-1
{
    "ImageId": "ami-0001f8b78c12cfeba"
}
[ec2-user@ip-172-31-55-169 ~]$ █
```

Some data about the AMI I just created

```
[[ec2-user@ip-172-31-55-169 ~]$ aws ec2 describe-images --image-ids ami-0001f8b78c12cfeba
{
    "Images": [
        {
            "VirtualizationType": "hvm",
            "EnaSupport": true,
            "PlatformDetails": "Linux/UNIX",
            "Hypervisor": "xen",
            "State": "available",
            "SriovNetSupport": "simple",
            "ImageId": "ami-0001f8b78c12cfeba",
            "UsageOperation": "RunInstances",
            "BlockDeviceMappings": [
                {
                    "DeviceName": "/dev/xvda",
                    "Ebs": {
                        "SnapshotId": "snap-01d9a9e20a085bcc0",
                        "DeleteOnTermination": true,
                        "VolumeType": "gp2",
                        "VolumeSize": 8,
                        "Encrypted": false
                    }
                }
            ],
            "Architecture": "x86_64",
            "ImageLocation": "461066108564/677_test_image",
            "RootDeviceType": "ebs",
            "OwnerId": "461066108564",
            "RootDeviceName": "/dev/xvda",
            "CreationDate": "2023-03-01T01:08:12.000Z",
            "Public": false,
            "ImageType": "machine",
            "Name": "677_test_image"
        }
    ]
}
[ec2-user@ip-172-31-55-169 ~]$
```

Terminate the instance

```
[ec2-user@ip-172-31-55-169 ~]$ aws ec2 terminate-instances --instance-ids i-09961d788c7543e95
{
    "TerminatingInstances": [
        {
            "InstanceId": "i-09961d788c7543e95",
            "CurrentState": {
                "Code": 32,
                "Name": "shutting-down"
            },
            "PreviousState": {
                "Code": 16,
                "Name": "running"
            }
        }
    ]
}
[ec2-user@ip-172-31-55-169 ~]$ Connection to ec2-100-25-177-254.compute-1.amazonaws.com closed by remote host.
Connection to ec2-100-25-177-254.compute-1.amazonaws.com closed.
byalif@Alifs-MacBook-Pro ec2-api-tools %
```

Creating an instance from the AMI I created

✓ **Success**
Successfully initiated launch of instance (i-0fcad72b96c2f6375)

▶ Launch log

Instances (3) Info

[Connect] [Instance state ▼] [Actions ▼] [**Launch instances**] [▼]

🔍 Find instance by attribute or tag (case-sensitive)

< 1 > ⚙

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
☐	–	i-0fcad72b96c2f6375	✓ Running ⊕⊖	t2.micro	✓ 2/2 checks passed	No alarms +	us-east-1d	ec2-44-200-36-181.co...	44.200.36.
☐	server	i-09961d788c7543e95	⊖ Terminated ⊕⊖	t2.micro	–	No alarms +	us-east-1e	–	–
☐	–	i-0a757fad1d087a8e0	✓ Running ⊕⊖	t2.micro	✓ 2/2 checks passed	No alarms +	us-east-1d	ec2-3-236-41-203.com...	3.236.41.2

```
[[ec2-user@ip-172-31-7-241 ~]$ aws ec2 run-instances --image-id ami-0001f8b78c12cfeba --instance-type t2.micro
{
    "Instances": [
        {
            "Monitoring": {
                "State": "disabled"
            },
            "PublicDnsName": "",
            "StateReason": {
                "Message": "pending",
                "Code": "pending"
            },
            "State": {
                "Code": 0,
                "Name": "pending"
            },
            "EbsOptimized": false,
            "LaunchTime": "2023-03-01T03:50:00.000Z",
            "PrivateIpAddress": "172.31.11.5",
            "ProductCodes": [],
            "VpcId": "vpc-0f29daece9c2a2434",
            "CpuOptions": {
                "CoreCount": 1,
                "ThreadsPerCore": 1
            },
            "StateTransitionReason": "",
            "InstanceId": "i-0a757fad1d087a8e0",
            "EnaSupport": true,
            "ImageId": "ami-0001f8b78c12cfeba",
            "PrivateDnsName": "ip-172-31-11-5.ec2.internal",
            "SecurityGroups": [
                {
                    "GroupName": "default",
                    "GroupId": "sg-0c79adbb4cce92af3"
                }
            ],
            "ClientToken": "d78b8c46-1ce7-4534-97e7-02d32fe81108",
            "SubnetId": "subnet-07c8e552eb49fb83b",
            "InstanceType": "t2.micro",
            "CapacityReservationSpecification": {
                "CapacityReservationPreference": "open"
            },
            "NetworkInterfaces": [
                {
                    "Status": "in-use",
                    "MacAddress": "02:ab:98:68:7d:d1",
                    "SourceDestCheck": true,
                    "VpcId": "vpc-0f29daece9c2a2434",
                    "Description": "",
                    "NetworkInterfaceId": "eni-0710fe29286918e2d",
                    "PrivateIpAddresses": [
                        {
                            "PrivateDnsName": "ip-172-31-11-5.ec2.internal",
                            "Primary": true,
                            "PrivateIpAddress": "172.31.11.5"
                        }
                    ],
                    "PrivateDnsName": "ip-172-31-11-5.ec2.internal",
                    "InterfaceType": "interface",
                    "Attachment": {
                        "Status": "attaching",
```

The bills for instances can vary, but one time I launched an EC2 instance for a node.js server I coded and I got billed $35 at the end of the month. I was very upset but that's what happens when you keep your server running without terminating it. This project might cost me less than a dollar though.

Terminating both previous instances

```
[ec2-user@ip-172-31-7-241 ~]$ aws ec2 terminate-instances --instance-ids i-0a757fad1d087a8e0
{
    "TerminatingInstances": [
        {
            "InstanceId": "i-0a757fad1d087a8e0",
            "CurrentState": {
                "Code": 32,
                "Name": "shutting-down"
            },
            "PreviousState": {
                "Code": 16,
                "Name": "running"
            }
        }
    ]
}
[ec2-user@ip-172-31-7-241 ~]$ aws ec2 terminate-instances --instance-ids i-0fcad72b96c2f6375
{
    "TerminatingInstances": [
        {
            "InstanceId": "i-0fcad72b96c2f6375",
            "CurrentState": {
                "Code": 32,
                "Name": "shutting-down"
            },
            "PreviousState": {
                "Code": 16,
                "Name": "running"
            }
        }
    ]
}
[ec2-user@ip-172-31-7-241 ~]$ Connection to ec2-44-200-36-181.compute-1.amazonaws.com closed by remote host.
Connection to ec2-44-200-36-181.compute-1.amazonaws.com closed.
byalif@Alifs-MacBook-Pro ec2-api-tools %
```

Deregister AMI

⊘ Successfully deregistered ami-0001f8b78c12cfeba.

Amazon Machine Images (AMIs) Info

Owned by me ▼	🔍 Find AMI by attribute or tag

☐	**Name** ▽	**AMI ID** ▽	AM

Delete snapshot

⊘ Successfully deleted snapshot snap-01d9a9e20a085bcc0.

Snapshots

Owned by me ▼	🔍 Search

☐	**Name** ▽	**Snapshot ID** ▽	**Size** ▽	