

Chapter 01: Installation and Setup

The screenshot shows the AWS Free Tier landing page. At the top left is the AWS logo. The top navigation bar includes links for 'Contact Sales', 'Support', 'English', 'My Account', and a 'Sign in to the Console' button. Below the navigation bar are links for 'Products', 'Solutions', 'Pricing', 'Learn', 'Partner Network', 'AWS Marketplace', and 'Explore More' with a search icon. The main content area has a purple and orange gradient background with the heading 'AWS Free Tier' and the text 'The AWS Free Tier enables you to gain free, hands-on experience with the AWS platform, products, and services.' A yellow 'Create a Free Account' button is centered below the text. Below this is a navigation bar with three tabs: 'Free Tier Details', 'Get Started', and 'Free Tier Software'. The 'Free Tier Details' tab is active, showing the heading 'AWS Free Tier Details' and a filter bar with options: '★ FEATURED', '📅 12 MONTHS FREE', '♻️ ALWAYS FREE', '🕒 TRIALS', '📂 PRODUCT CATEGORIES', and '✔️ ALL'.

AWS Free Tier Details

★ FEATURED

📅 12 MONTHS FREE

♻️ ALWAYS FREE

🕒 TRIALS

📁 PRODUCT CATEGORIES

👉 ALL

12 months free and always free products

AWS Free Tier includes offers that expire 12 months following sign up and others that never expire.

[Learn more »](#)

COMPUTE

Amazon EC2

750 Hours

per month

Resizable compute capacity in the Cloud

[Learn more about Amazon EC2 »](#)

EXPAND DETAILS ^

ANALYTICS

Amazon QuickSight

1 GB

of SPICE capacity

Fast, easy-to-use, cloud-powered business analytics service at 1/10th the cost of traditional BI solutions

[Learn more about Amazon QuickSight »](#)

EXPAND DETAILS ^

DATABASE

Amazon RDS

750 Hours

per month of db.t2.micro database usage (applicable DB engines)

Managed Relational Database Service for MySQL, PostgreSQL, MariaDB, Oracle BYOL, or SQL Server

[Learn more about Amazon RDS »](#)

STORAGE & CONTENT DELIVERY

Amazon S3

5 GB

of standard storage

Secure, durable, and scalable object storage infrastructure

[Learn more about Amazon S3 »](#)

COMPUTE

AWS Lambda

1 Million

free requests per month


Compute service that runs your code in response to events and automatically manages the compute resources

[Learn more about AWS Lambda »](#)

Contact Information

All fields are required.

Please select the account type and complete the fields below with your contact details.

Account type 

Professional Personal

Full name

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Phone number

Country/Region

United States ▼

Address

Street, P.O. Box, Company Name, c/o

Apartment, suite, unit, building, floor, etc.



Payment Information

Please type your payment information so we can verify your identity. We will not charge you unless your usage exceeds the [AWS Free Tier Limits](#). Review [frequently asked questions](#) for more information.



As part of our card verification process we will charge INR 2 on your card when you click the "Secure Submit" button below. This will be refunded once your card has been validated. Your bank may take 3-5 business days to show the refund. Mastercard/Visa customers may be redirected to your bank website to authorize the charge.

Credit/Debit card number

Expiration date

Cardholder's name

Phone Verification

AWS will call you immediately using an automated system. When prompted, enter the 4-digit number from the AWS website on your phone keypad.

Provide a telephone number

Please enter your information below and click the "Call Me Now" button.

Country/Region code

Phone number

Ext

Security Check



Please type the characters as shown above

Call in progress...

Please answer the call from AWS and, when prompted, enter the 4-digit number on your phone keypad.



Your identity has been verified successfully.

Continue

Select a Support Plan

AWS offers a selection of support plans to meet your needs. Choose the support plan that best aligns with your AWS usage. [Learn more](#)



Basic Plan

Free

- Included with all accounts
- 24/7 self-service access to forums and resources
- Best practice checks to help improve security and performance
- Access to health status and notifications



Developer Plan

From \$29/month

- For early adoption, testing and development
- Email access to AWS Support during business hours
- 1 primary contact can open an unlimited number of support cases
- 12-hour response time for nonproduction systems



Business Plan

From \$100/month

- For production workloads & business-critical dependencies
- 24/7 chat, phone, and email access to AWS Support
- Unlimited contacts can open an unlimited number of support cases
- 1-hour response time for production systems

Need Enterprise level support?

Contact your account manager for additional information on running business and mission critical-workloads on AWS (starting at \$15,000/month). [Learn more](#)

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aws Contact Sales Support English My Account **Sign In to the Console**

Products Solutions Pricing Learn Partner Network AWS Marketplace Explore More

Welcome to Amazon Web Services

Thank you for creating an Amazon Web Services Account. We are activating your account, which should only take a few minutes. You will receive an email when this is complete.

[Sign In to the Console](#)

[Check your tax details for accurate invoicing >>](#)

[Contact Sales](#)

Personalize Your Experience ×

Fill in the blanks below to receive recommendations catered to your role and interests.

My role is: [Software Developer / Engineer](#) ▾

I am interested in: [DevOps](#) ▾

[Submit](#)

aws Contact Sales Support English My Account **Sign In to the Console**

Products Solutions Pricing Learn Partner Network AWS Marketplace Explore More

Try a Tutorial on the Free Tier

COMPUTE

Launch a Linux Virtual Machine

Deploy Docker Containers

Run a Serverless "Hello, World!"

WEBSITES & WEB APPS

Launch a WordPress Website


Launch a Web Application

STORAGE & CONTENT DELIVERY

Store and Retrieve a File

Create a Network File System

Batch upload files to the cloud



Sign in ⓘ

Email address of your AWS account

Or to sign in as an IAM user, enter your [account ID](#) or [account alias](#) instead.



[Next](#)


— New to AWS? —

[Create a new AWS account](#)

Amazon Elasticsearch Service

Real-time log analytics for app monitoring, faster troubleshooting, and more





Root user sign in ⓘ

Email:

Password [Forgot password?](#)


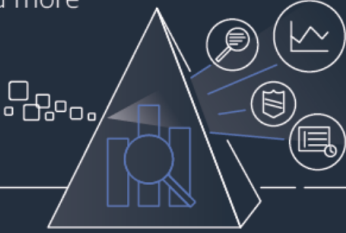
[Sign in](#)

[Sign in to a different account](#)

[Create a new AWS account](#)

Amazon Elasticsearch Service

Real-time log analytics for app monitoring, faster troubleshooting, and more



aws

Account ID or alias

te-books

IAM user name

books1

Password

.....

Sign In

[Sign-in using root account credentials](#)

Amazon Elasticsearch Service

Real-time log analytics for app monitoring, faster troubleshooting, and more

aws

English

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AWS services

Find a service by name or feature (for example, EC2, S3 or VM, storage).

Recently visited services

All services

Build a solution

Get started with simple wizards and automated workflows.

- Launch a virtual machine** (With EC2, ~2-3 minutes)
- Build a web app** (With Elastic Beanstalk, ~6 minutes)
- Build using virtual servers** (With Lightsail, ~1-2 minutes)
- Connect an IoT device** (With AWS IoT, ~5 minutes)
- Start a development project** (With CodeStar, ~5 minutes)
- Register a domain** (With Route 53, ~3 minutes)

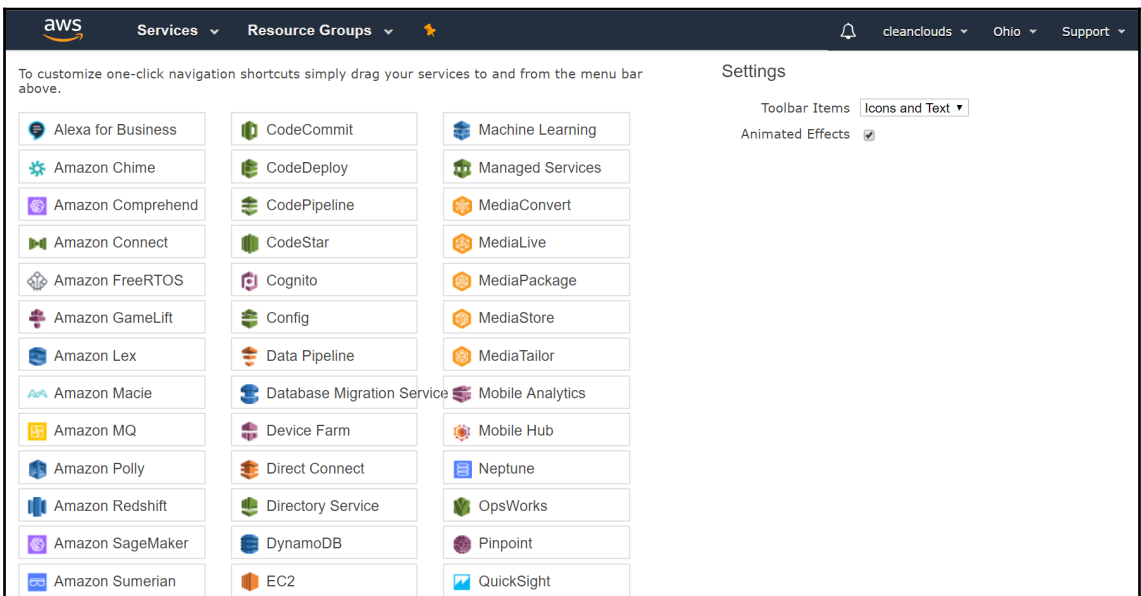
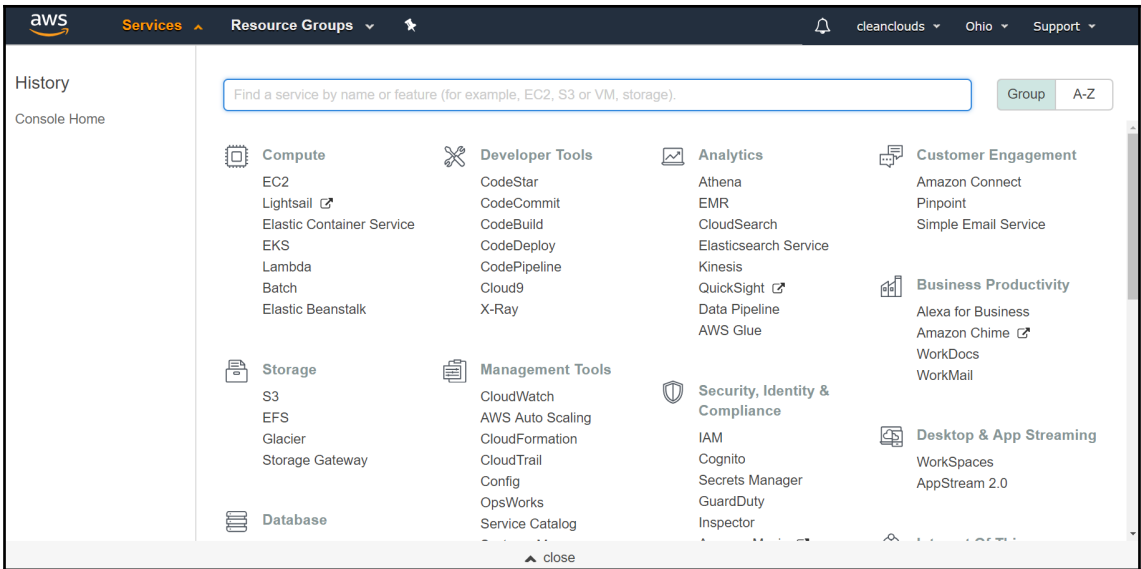
Helpful tips


- Manage your costs**: Monitor your AWS costs, usage, and reservations using AWS Budgets. [Start now](#)
- Create an organization**: Use AWS Organizations for policy-based management of multiple AWS accounts. [Start now](#)

Explore AWS

Machine Learning with Amazon SageMaker

The fastest way to build, train, and deploy machine learning models. [Learn more.](#)



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clean

- My Account
- My Organization
- My Billing Dashboard
- My Security Credentials

Sign Out

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Billing & Cost Management Dashboard

Spend Summary Cost Explorer Month-to-Date Spend by Service Bill Details


Welcome to the AWS Account Billing console. Your last month and month-to-date costs appear below.

Current month-to-date balance for September 2018, the exchange rate for the Payment Currency is estimated.

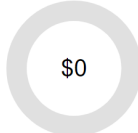
0.00 USD, which converts to

0.00 INR

at today's exchange rate of 72.925838



The chart below shows the proportion of costs spent for each service you use.



No Amount Due \$0.00

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Billing does not require region selection.

US East (N. Virginia)

US East (Ohio)

US West (N. California)

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- Dashboard
- Bills
- Cost Explorer
- Budgets
- Reports
- Cost Allocation Tags
- Payment Methods
- Payment History
- Consolidated Billing
- Preferences
- Credits
- Tax Settings

- Account Settings [Edit](#)
- Contact Information [Edit](#)

Please note that updating your contact information on this page will not update the information displayed on your PDF Invoices. If you wish to update the billing address information associated with your Invoice, please edit it through the Payment Methods page, located [here](#).
- Alternate Contacts [Edit](#)
- Configure Security Challenge Questions [Edit](#)
- IAM User and Role Access to Billing Information [Edit](#)
- Account Contract Information [Edit](#)
- Communication Preferences
- Manage AWS Support Plans
- GovCloud (US)
- Close Account

Chapter 02: Launching an EC2 Instance

Model	vCPU	CPU credits/hour	Mem (GiB)	Storage
t3.nano	2	6	0.5	EBS-only
t3.micro	2	12	1	EBS-only
t3.small	2	24	2	EBS-only
t3.medium	2	24	4	EBS-only
t3.large	2	36	8	EBS-only
t3.xlarge	4	96	16	EBS-only
t3.2xlarge	8	192	32	EBS-only

Model	vCPU	CPU Credits / hour	Mem (GiB)	Storage
t2.nano	1	3	0.5	EBS-only
t2.micro	1	6	1	EBS-only
t2.small	1	12	2	EBS-only
t2.medium	2	24	4	EBS-only
t2.large	2	36	8	EBS-only
t2.xlarge	4	54	16	EBS-only
t2.2xlarge	8	81	32	EBS-only

Model	vCPU	Mem (GiB)	Instance storage (GiB)	Dedicated EBS bandwidth (Mbps)
m5.large	2	8	EBS-only	Up to 3,500
m5.xlarge	4	16	EBS-only	Up to 3,500
m5.2xlarge	8	32	EBS-only	Up to 3,500
m5.4xlarge	16	64	EBS-only	3500
m5.12xlarge	48	192	EBS-only	7000
m5.24xlarge	96	384	EBS-only	14000
m5d.large	2	8	1 x 75 NVMe SSD	Up to 3,500
m5d.xlarge	4	16	1 x 150 NVMe SSD	Up to 3,500
m5d.2xlarge	8	32	1 x 300 NVMe SSD	Up to 3,500
m5d.4xlarge	16	64	2 x 300 NVMe SSD	3500
m5d.12xlarge	48	192	2 x 900 NVMe SSD	7000
m5d.24xlarge	96	384	4 x 900 NVMe SSD	14000

Model	vCPU	Mem (GiB)	SSD storage (GB)	Dedicated EBS bandwidth (Mbps)
m4.large	2	8	EBS-only	450
m4.xlarge	4	16	EBS-only	750
m4.2xlarge	8	32	EBS-only	1000
m4.4xlarge	16	64	EBS-only	2000
m4.10xlarge	40	160	EBS-only	4000
m4.16xlarge	64	256	EBS-only	10000

Model	vCPU	Mem (GiB)	Instance storage (GiB)	Dedicated EBS bandwidth (Mbps)
c5.large	2	4	EBS-only	Up to 3,500
c5.xlarge	4	8	EBS-only	Up to 3,500
c5.2xlarge	8	16	EBS-only	Up to 3,500
c5.4xlarge	16	32	EBS-only	3500
c5.9xlarge	36	72	EBS-only	7000
c5.18xlarge	72	144	EBS-only	14000
c5d.large	2	4	1 x 50 NVMe SSD	Up to 3,500
c5d.xlarge	4	8	1 x 100 NVMe SSD	Up to 3,500
c5d.2xlarge	8	16	1 x 200 NVMe SSD	Up to 3,500
c5d.4xlarge	16	32	1 x 400 NVMe SSD	3500
c5d.9xlarge	36	72	1 x 900 NVMe SSD	7000
c5d.18xlarge	72	144	2 x 900 NVMe SSD	14000

Model	vCPU	Mem (GiB)	Storage	Dedicated EBS bandwidth (Mbps)
c4.large	2	3.75	EBS-only	500
c4.xlarge	4	7.5	EBS-only	750
c4.2xlarge	8	15	EBS-only	1000
c4.4xlarge	16	30	EBS-only	2000
c4.8xlarge	36	60	EBS-only	4000

Model	vCPU	Mem (GiB)	SSD storage (GB)	Dedicated EBS bandwidth (Mbps)
x1e.xlarge	4	122	1 x 120	500
x1e.2xlarge	8	244	1 x 240	1000
x1e.4xlarge	16	488	1 x 480	1750
x1e.8xlarge	32	976	1 x 960	3500
x1e.16xlarge	64	1952	1 x 1,920	7000
x1e.32xlarge	128	3904	2 x 1,920	14000

Model	vCPU	Mem (GiB)	SSD storage (GB)	Dedicated EBS bandwidth (Mbps)
x1.16xlarge	64	976	1 x 1,920	7000
x1.32xlarge	128	1952	2 x 1,920	14000

Model	vCPU	Mem (GiB)	Networking perf.	SSD storage (GB)
r5.large	2	16	Up to 10 Gigabit	EBS-only
r5.xlarge	4	32	Up to 10 Gigabit	EBS-only
r5.2xlarge	8	64	Up to 10 Gigabit	EBS-only
r5.4xlarge	16	128	Up to 10 Gigabit	EBS-only
r5.12xlarge	48	384	10 Gigabit	EBS-only
r5.24xlarge	96	768	25 Gigabit	EBS-only
r5d.large	2	16	Up to 10 Gigabit	1 x 75 NVMe SSD
r5d.xlarge	4	32	Up to 10 Gigabit	1 x 150 NVMe SSD
r5d.2xlarge	8	64	Up to 10 Gigabit	1 x 300 NVMe SSD
r5d.4xlarge	16	128	Up to 10 Gigabit	2 x 300 NVMe SSD
r5d.12xlarge	48	384	10 Gigabit	2 x 900 NVMe SSD
r5d.24xlarge	96	768	25 Gigabit	4 x 900 NVMe SSD

Model	vCPU	Mem (GiB)	Networking perf.	SSD storage (GB)
r4.large	2	15.25	Up to 10 Gigabit	EBS-only
r4.xlarge	4	30.5	Up to 10 Gigabit	EBS-only
r4.2xlarge	8	61	Up to 10 Gigabit	EBS-only
r4.4xlarge	16	122	Up to 10 Gigabit	EBS-only
r4.8xlarge	32	244	10 Gigabit	EBS-only
r4.16xlarge	64	488	25 Gigabit	EBS-only

Model	vCPU	Mem (GiB)	Networking perf.	SSD storage (GB)
z1d.large	2	16	Up to 10 Gigabit	1 x 75 NVMe SSD
z1d.xlarge	4	32	Up to 10 Gigabit	1 x 150 NVMe SSD
z1d.2xlarge	8	64	Up to 10 Gigabit	1 x 300 NVMe SSD
z1d.3xlarge	12	96	Up to 10 Gigabit	1 x 450 NVMe SSD
z1d.6xlarge	24	192	10 Gigabit	1 x 900 NVMe SSD
z1d.12xlarge	48	384	25 Gigabit	2 x 900 NVMe SSD

Model	GPUs	vCPU	Mem (GiB)	GPU mem (GiB)	GPU P2P
p3.2xlarge	1	8	61	16	-
p3.8xlarge	4	32	244	64	NVLink
p3.16xlarge	8	64	488	128	NVLink

Model	GPUs	vCPU	Mem (GiB)	GPU memory (GiB)
p2.xlarge	1	4	61	12
p2.8xlarge	8	32	488	96
p2.16xlarge	16	64	732	192

Model	GPUs	vCPU	Mem (GiB)	GPU memory (GiB)
g3.4xlarge	1	16	122	8
g3.8xlarge	2	32	244	16
g3.16xlarge	4	64	488	32

Model	FPGAs	vCPU	Mem (GiB)	SSD storage (GB)	Networking performance
f1.2xlarge	1	8	122	470	Up to 10 Gigabit
f1.16xlarge	8	64	976	4 x 940	25 Gigabit

Model	vCPU	Mem (GiB)	Networking performance	Storage (GB)
h1.2xlarge	8	32	Up to 10 Gigabit	1 x 2,000 HDD
h1.4xlarge	16	64	Up to 10 Gigabit	2 x 2,000 HDD
h1.8xlarge	32	128	10 Gigabit	4 x 2,000 HDD
h1.16xlarge	64	256	25 Gigabit	8 x 2,000 HDD

Model	vCPU	Mem (GiB)	Networking performance	Storage (TB)
i3.large	2	15.25	Up to 10 Gigabit	1 x 0.475 NVMe SSD
i3.xlarge	4	30.5	Up to 10 Gigabit	1 x 0.95 NVMeSSD
i3.2xlarge	8	61	Up to 10 Gigabit	1 x 1.9 NVMe SSD
i3.4xlarge	16	122	Up to 10 Gigabit	2 x 1.9 NVMe SSD
i3.8xlarge	32	244	10 Gigabit	4 x 1.9 NVMe SSD
i3.16xlarge	64	488	25 Gigabit	8 x 1.9 NVMe SSD
i3.metal	72*	512	25 Gigabit	8 x 1.9 NVMe SSD

Model	vCPU	Mem (GiB)	Storage (GB)
d2.xlarge	4	30.5	3 x 2000 HDD
d2.2xlarge	8	61	6 x 2000 HDD
d2.4xlarge	16	122	12 x 2000 HDD
d2.8xlarge	36	244	24 x 2000 HDD

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Quick Start

- My AMIs
- AWS Marketplace
- Community AMIs
- Free tier only

1 to 35 of 35 AMIs

	Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-0b59bfac6be064b78	<input type="button" value="Select"/>
Free tier eligible	The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.	64-bit
	Root device type: ebs Virtualization type: hvm	
	Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0cf31d971a3ca20d6	<input type="button" value="Select"/>
Free tier eligible	Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras.	64-bit
	Root device type: ebs Virtualization type: hvm	
	Red Hat Enterprise Linux 7.5 (HVM), SSD Volume Type - ami-03291866	<input type="button" value="Select"/>
Free tier eligible	Red Hat Enterprise Linux version 7.5 (HVM), EBS General Purpose (SSD) Volume Type	64-bit

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

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All Instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes

Cancel Previous **Review and Launch** Next: Configure Instance Details

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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](#)

Auto-assign Public IP

Placement group Add instance to placement group.

IAM role [Create new IAM role](#)

Shutdown behavior

Cancel Previous **Review and Launch** Next: Add Storage

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aws Services Resource Groups cleanclouds Ohio Support

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

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/xvda	snap-05aded73e813e8ff2	<input type="text" value="8"/>	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

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

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webservers.
 A copy of a tag can be applied to volumes, instances or both.
 Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)	Instances	Volumes
<input type="text" value="testserver"/>	<input type="text" value="testMum"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

(Up to 50 tags maximum)

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aws Services Resource Groups cleanclouds Ohio Support

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	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule

Warning
 Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous Review and Launch

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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	My IP 123.252.235.122/32	e.g. SSH for Admin Desktop

Add Rule

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	My IP 123.252.235.122/32	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0, ::/0	e.g. SSH for Admin Desktop
HTTPS	TCP	443	Custom 0.0.0.0, ::/0	e.g. SSH for Admin Desktop

Add Rule

aws Services Resource Groups cleanclouds Ohio Support

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

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠ Improve your instances' security. Your security group, launch-wizard-1, is open to the world.
 Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

▼ AMI Details [Edit AMI](#)

Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-0b59bfac6be064b78

Free tier eligible
 The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
Root Device Type: ebs Virtualization type: hvm

▼ Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

▶ Security Groups [Edit security groups](#)

[Cancel](#) [Previous](#) [Launch](#)

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aws Services Resource Groups cleanclouds Ohio Support

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

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠ Improve your instances' security. Your security group, launch-wizard-1, is open to the world.
 Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

▼ AMI Details [Edit AMI](#)

Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-0b59bfac6be064b78

Free tier eligible
 The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
Root Device Type: ebs Virtualization type: hvm

▼ Instance Type [Edit instance type](#)

Instance Type	ECUs
t2.micro	Variable

▶ Security Groups [Edit security groups](#)

[Cancel](#) [Previous](#) [Launch](#)

Select an existing key pair or create a new key pair ✕

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.

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 name

[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.

[Cancel](#) [Launch Instances](#)

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aws Services Resource Groups cleanclouds Ohio Support

EC2 Dashboard

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public IP
	i-0899a2dcf09ae1b3d	t2.micro	us-east-2b	running	Initializing	None	ec2-18-1

Instance: i-0899a2dcf09ae1b3d Public DNS: ec2- [redacted] .amazonaws.com

Description Status Checks Monitoring Tags

Instance ID	i-0899a2dcf09ae1b3d	Public DNS (IPv4)	ec2- [redacted] .compute.amazonaws.com
Instance state	running	IPv4 Public IP	[redacted]
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip- [redacted] 124.us-east-2.compute.internal
Availability zone	us-east-2b	Private IPs	[redacted]
Security groups	launch-wizard-1 . view inbound rules . view outbound rules	Secondary private IPs	
Scheduled events	No scheduled events	VPC ID	vpc-48023d20
AMI ID	amzn-ami-hvm-	Subnet ID	subnet-1c049966

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aws Services Resource Groups cleanclouds Ohio Support

EC2 Dashboard

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public IP
	i-0899a2dcf09ae1b3d	t2.micro	us-east-2b	running	2/2 checks ...	None	ec2-18-1

Instance: i-0899a2dcf09ae1b3d Public DNS: ec2- [redacted] us-east-2.compute.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID	i-0899a2dcf09ae1b3d	Public DNS (IPv4)	ec2- [redacted] 114.us-east-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	[redacted]
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172- [redacted] us-east-2.compute.internal
Availability zone	us-east-2b	Private IPs	172 [redacted]
Security groups	launch-wizard-1 . view inbound rules . view outbound rules	Secondary private IPs	
Scheduled events	No scheduled events	VPC ID	vpc-48023d20
AMI ID	amzn-ami-hvm-	Subnet ID	subnet-1c049966

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aws Services Resource Groups cleanclouds Ohio Support




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

Step 1: Choose an Amazon Machine Image (AMI) Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows" X

Quick Start 1 to 35 of 35 AMIs




My AMIs	 Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type - ami-0b59bfac6be064b78 Select <small>Free tier eligible</small> The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages. 64-bit <small>Root device type: ebs Virtualization type: hvm</small>
AWS Marketplace	
Community AMIs	
<input type="checkbox"/> Free tier only <small>i</small>	 Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0cf31d971a3ca20d6 Select <small>Free tier eligible</small> Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. 64-bit <small>Root device type: ebs Virtualization type: hvm</small>
	 Red Hat Enterprise Linux 7.5 (HVM), SSD Volume Type - ami-03291866 Select <small>Free tier eligible</small> Red Hat Enterprise Linux version 7.5 (HVM), EBS General Purpose (SSD) Volume Type 64-bit

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

Step 1: Choose an Amazon Machine Image (AMI) Cancel and Exit

My AMIs	 Microsoft Windows Server 2016 Base - ami-0ca3e3965ada31684 Select <small>Free tier eligible</small> Microsoft Windows 2016 Datacenter edition. [English] 64-bit <small>Root device type: ebs Virtualization type: hvm</small>
AWS Marketplace	
Community AMIs	
<input type="checkbox"/> Free tier only <small>i</small>	<div style="border: 1px solid #007bff; padding: 5px; margin-bottom: 5px;">  <p>Are you launching a database instance? Try Amazon RDS. Hide</p> <p>Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale your database on AWS by automating time-consuming database management tasks. With RDS, you can easily deploy Amazon Aurora, MariaDB, MySQL, Oracle, PostgreSQL, and SQL Server databases on AWS. <i>Aurora</i> is a MySQL- and PostgreSQL-compatible, enterprise-class database at 1/10th the cost of commercial databases. Learn more about RDS</p> <p style="text-align: center;">Launch a database using RDS</p> </div>  Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-0f65671a86f061fcd Select <small>Free tier eligible</small> Ubuntu Server 18.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services). 64-bit <small>Root device type: ebs Virtualization type: hvm</small>

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aws Services Resource Groups cleanclouds Ohio Support

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






Step 1: Choose an Amazon Machine Image (AMI) Cancel and Exit

AWS Marketplace

Community AMIs

Operating system

- Amazon Linux
- Cent OS
- Debian
- Fedora
- Gentoo
- openSUSE
- Other Linux
- Red Hat
- SUSE Linux
- Ubuntu
- Windows

	<p>Amazon Linux AMI 2018.03.0.20180811 x86_64 HVM GP2</p> <p>Root device type: ebs Virtualization type: hvm</p> <p style="text-align: right;">64-bit</p>
	<p>amzn2-ami-hvm-2.0.20180810-x86_64-gp2 - ami-0cf31d971a3ca20d6</p> <p>Amazon Linux 2 AMI 2.0.20180810 x86_64 HVM gp2</p> <p>Root device type: ebs Virtualization type: hvm</p> <p style="text-align: right;">Select</p>
	<p>RHEL-7.5_HVM_GA-20180322-x86_64-1-Hourly2-GP2 - ami-03291866</p> <p>Provided by Red Hat, Inc.</p> <p>Root device type: ebs Virtualization type: hvm</p> <p style="text-align: right;">Select</p>
	<p>suse-sles-15-v20180816-hvm-ssd-x86_64 - ami-0eb9f58db22854f8f</p> <p>SUSE Linux Enterprise Server 15 (HVM, 64-bit, SSD-Backed)</p> <p>Root device type: ebs Virtualization type: hvm</p> <p style="text-align: right;">Select</p>
	<p>ubuntu/images/hvm-ssd/ubuntu-bionic-18.04-amd64-server-20180812 - ami-0f65671a86f061fcd</p> <p style="text-align: right;">Select</p>

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
Quick Start

My AMIs

AWS Marketplace

Community AMIs

▼ **Operating system**

- Amazon Linux 
- Cent OS 
- Debian 
- Fedora 
- Gentoo 
- openSUSE 
- Other Linux 
- Red Hat 
- SUSE Linux 
- Ubuntu 
- Windows 

▼ **Architecture**

- 32-bit
- 64-bit

▼ **Root device type**

- EBS
- Instance store


aws Services Resource Groups

cleanclouds Ohio Support

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

Step 1: Choose an Amazon Machine Image (AMI)

[Cancel and Exit](#)

My AMIs 





AWS Marketplace
Find and buy software that runs in the AWS Cloud, software from trusted vendors like SAP, Zend, Microsoft, as well as many open source offerings. You can now find and launch software directly within EC2 for all AWS Marketplace AMI products. View Marketplace products you are currently subscribed to by visiting [Your Software](#) in the AWS Marketplace.

Community AMIs

Categories

- All Categories
 - Infrastructure Software (2311)
 - Developer Tools (572)
 - Business Software (1074)

Featured Software

 Barracuda CloudGen Firewall for AWS - ... Rating ★★★★★ Sold by Barracuda Networks, Inc. Starting from \$0.60/hr or from \$4,599/yr (12% savings) for software	 vSRX Next Generation Firewall Sold by Juniper Networks \$0.55/hr or \$2,280/yr (53% savings) for software	 Matillion ETL for Amazon Redshift Rating ★★★★★ Sold by Matillion Starting from \$1.37/hr or from \$9,950/yr (17% savings) for software	 Trend Micro Deep Security Rating ★★★★★ Sold by Trend Micro Starting from \$0.01 per host/hr for software usage
--	---	---	--

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Categories <input type="text" value="All categories"/>	Vendors <input type="text" value="All vendors"/>	Pricing Plans <input type="text" value="All pricing plans"/>	Fulfillment Options <input type="text" value="All fulfillment options"/>
---	---	---	---

Total results: 4108 [Clear selection](#) [View results](#)

The screenshot shows the AWS Management Console interface for an EC2 instance. The instance ID is `i-0899a2dcf09ae1b3d`. The 'Actions' menu is open, and the 'Create Image' option is highlighted. The instance details are as follows:

Instance ID	i-0899a2dcf09ae1b3d	Public DNS (IPv4)	us-east-2.compute.amazonaws.com
Instance state	running	IPv4 Public IP	
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-...us-east-2.compute.internal
Availability zone	us-east-2b	Private IPs	
Security groups	launch-wizard-1	Secondary private IPs	
Scheduled events	No scheduled events	VPC ID	vpc-48023d20
AMI ID	amzn-ami-hvm-	Subnet ID	subnet-1c049966

The 'Create Image' dialog box is shown with the following configuration:

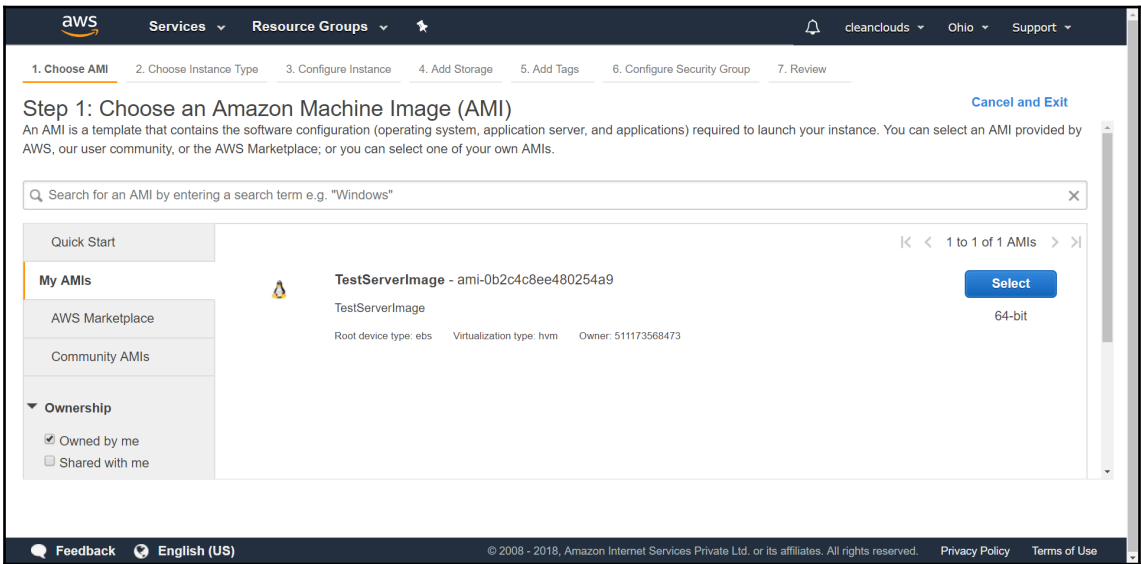
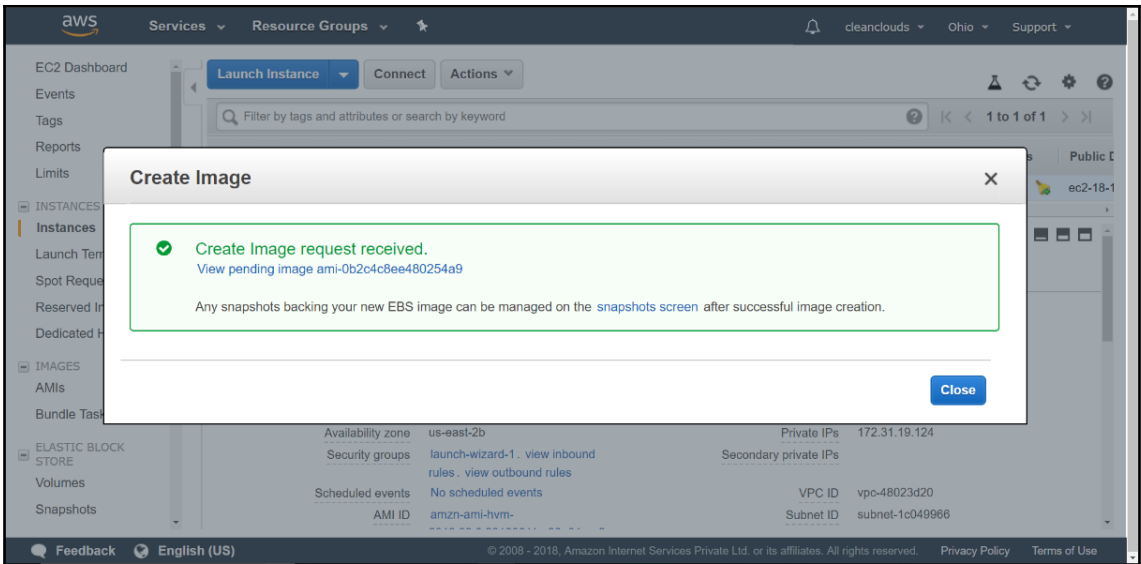
- Instance ID: `i-0899a2dcf09ae1b3d`
- Image name: `TestServerImage`
- Image description: `TestServerImage`
- No reboot:

Instance Volumes

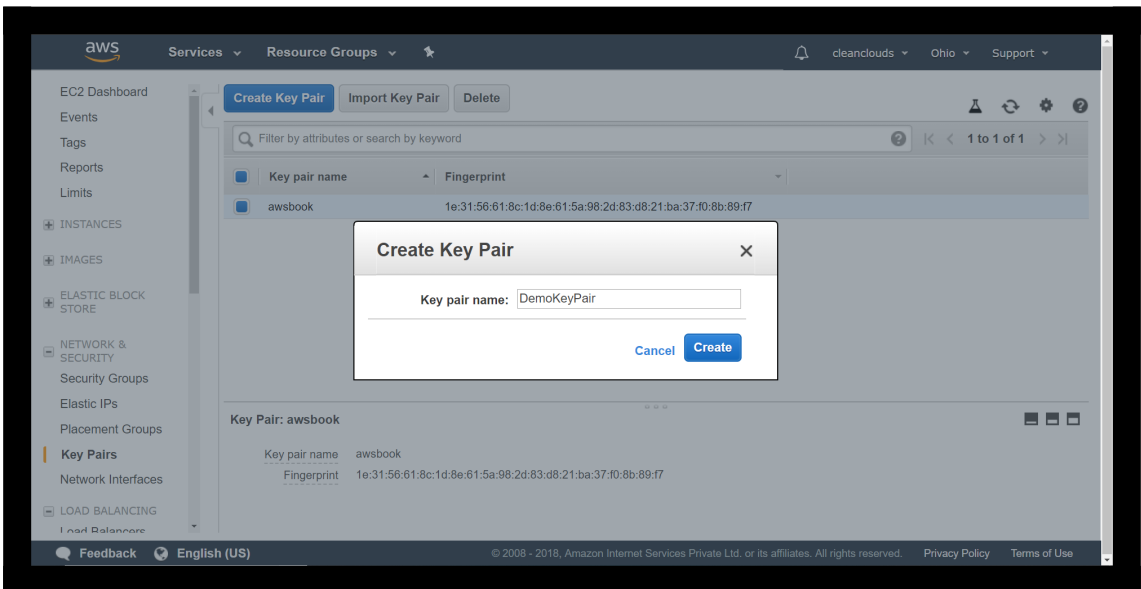
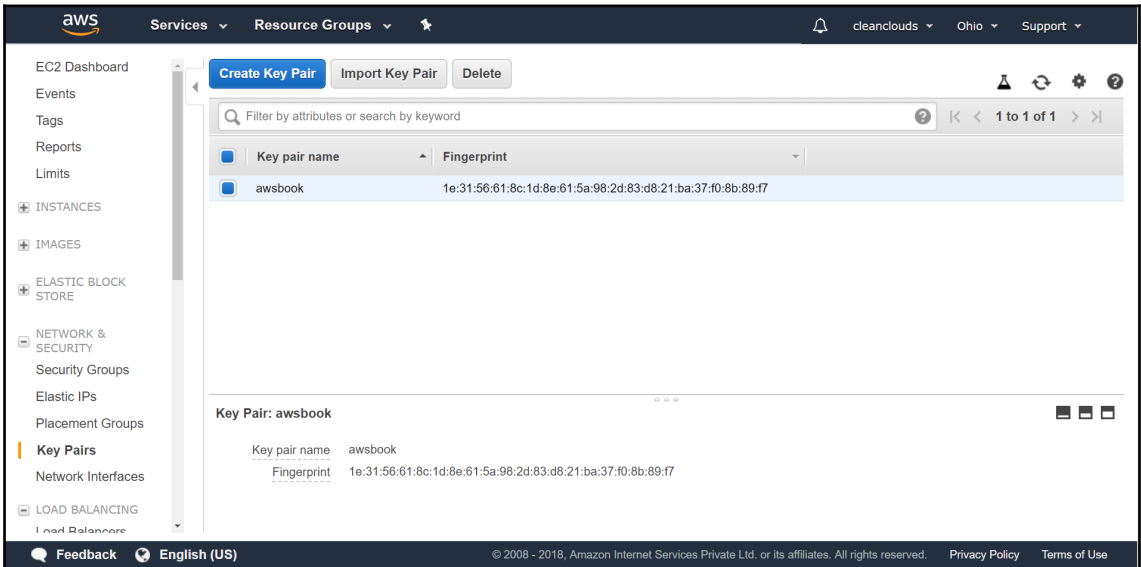
Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/xvda	snap-05aded73e813e8ff2	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

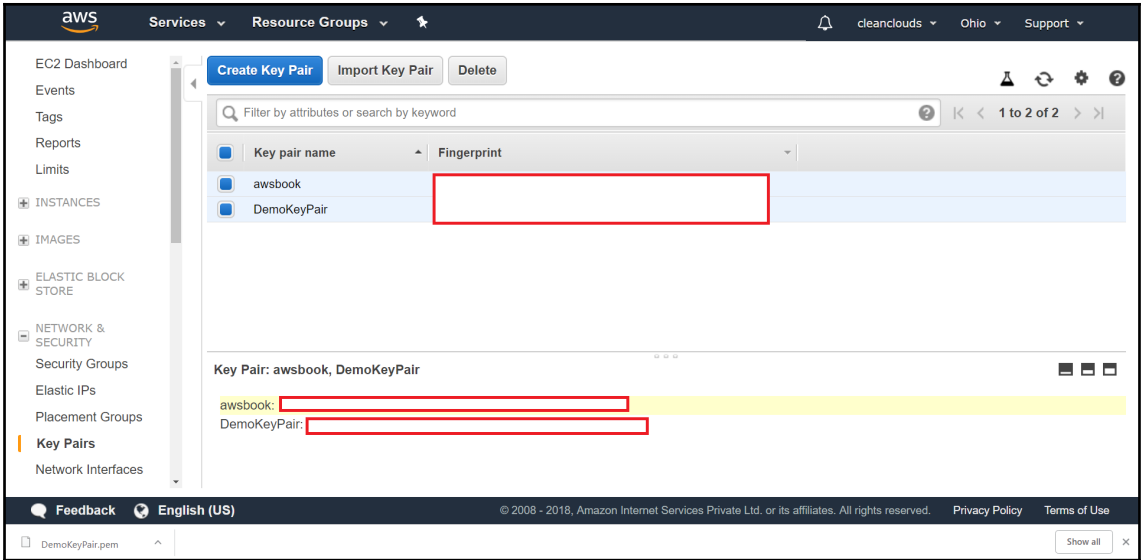
Total size of EBS Volumes: 8 GiB
When you create an EBS image, an EBS snapshot will also be created for each of the above volumes.

Buttons:



Chapter 03: Logging in to EC2 Instances

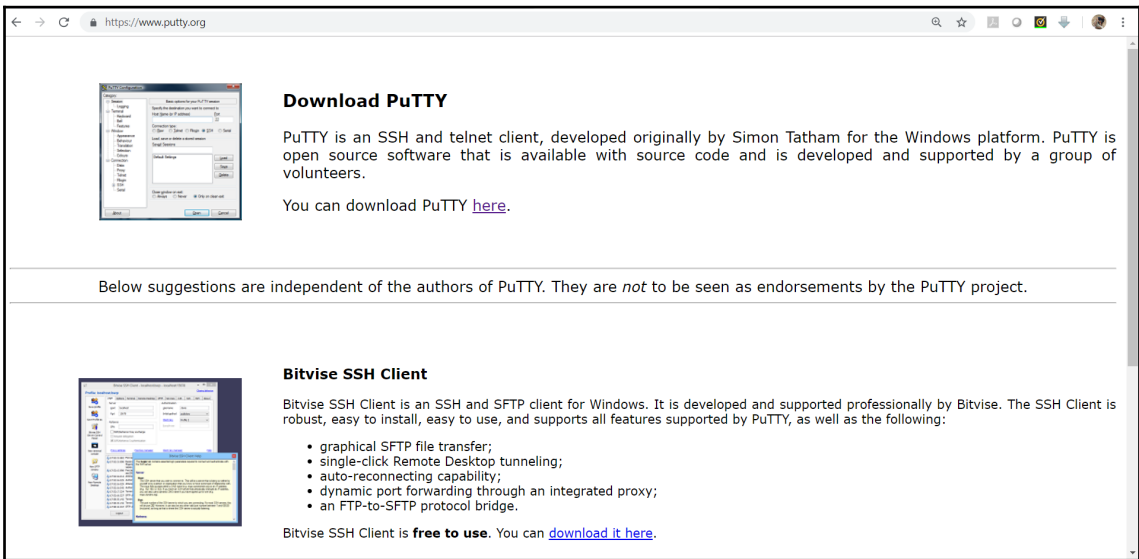
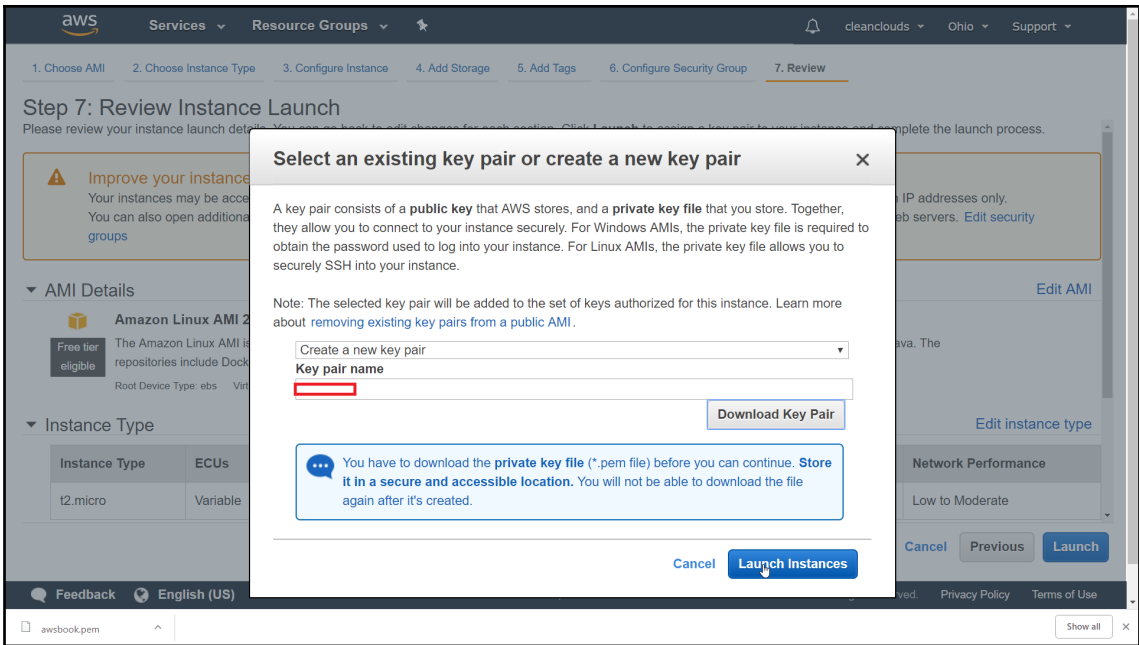




```

-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAgjJlayH7kkjHpc2qxCPt91AJ45R0rxdxCTLzHE84LGIjP0QXNkmEACbLxiJLS
HfTBksww9rQLY61Wsqefe77rJmhl+bGPsRzWIVjvD7/2CU9dDcgRzvyAo2k5YR3dxHA9e95LGiA
PL2Xf7BZSkbsgW0719solQTCMRpm5HkBUB0mCVpCh/ytFBm2DfwRqPD4Hyjew+zDZ2/yn2jjdHMT
ks7L9rfnudglgHN/dBctWS7Ac0JIYqEevGxOkotxs80jY+8ZcEZntXpho+XQFfv2HFxXpRx1AzEr
v+prOia6vSYFnZ2BzJyC1112vTiBlilXC2jqGVxuoxetjM+dk5MJxwIDAQABAoIBABzdbRxmDJPT
R3MiQz5HkNOaUNkFTgaBNn+GjMzrM3tOQQdGKzu7LhvJ0pWKXtSvmR3nDUT0s580ThtCQ+8Eh4rL
xbSjpLaWeTTGncBV90z0We2dRpLoisaT4tSmNuzWkJgZezlVGDM7rOTAcM7PaC64cb3Uf/8GkTcQ
CbPzDx4oDtzF/YlQRyBj1hE/Cjp+iQilZkVc+MBfxTx5QBE7Tn4Yt746YsMV7D0mKV6Iw7AHqOgN
K7c7lDdLudJ0nc2rLWrEhPnrVXYL0NiAvle3lm95SJULXSDSsz3MJypuyvToSBkzghA31iQ8AKRH
HFic2ltYe0twr/F1dd64HBCJXVECgYEA/HM38S1bLSkDq6t+2VVr82Yi2mXd6hGICnOyNlpo7zK
GqVviKqi2uGb4g9zH15dWzSAzFAA3i5eaPjTKRanLdFm3z2V+0WvDQZiTUqb2+DvEKqTYmvx2W3
apEsWjDhQKqJ6DTEk8XpgMknQHvRnHGctY+0UsNfrEHYzjywfFkCgYEA/vtXXMr6pfiFSj6wGs
CUNVBzg0RLIfkjWUAvYfyZun45HbruyNHNfQMAAZ940H0srjq9XR8D2uaW/ESz9D2nbrEm3bZ1K
ZY0FtkB0w4gvxiKtGwuYTN6gx485DrU1KBSwaaLopspNYUorx5B+1WJxTdsfp1FgBEa8cT9Db8C
gYEAiORWjTCEgk0qx3B3oj2bSGbOzm5oPIJOUj7nBdJU6NkCqkx5xTKBO0Gz/yGtpHcAdc+YHB7i
v5KqWos7bhFs4GAFEMOqnULF+CvgGm8EeL07YsTY2Lvd1YPBsAshaqF5xLjb6fPYTvtTkLnS7anQ
b3KVGHANw+H6D6QnKIKa2ECgYAJjGdimgpyS3by/7wXoYtdTE7is2+w4SpVh8d4wvY1zb+RKEO
UCQOV1BVGd2FcZjykbICPWIzCLfV4OVtsCVA+GaxFqh5wRg0onOuJ/J4wUs+W2T699KT1AUdvwyt
RHTgOy3PR7Xsf1EFu60/m3NQ1o532gFhIkOUXcgQcY0XewKBgQCa5+I9rqheo3HXNrYY5O93n613
d9k7BgPTmX3yYRifIgvImWnjgXTrscpoudHjOBKNaNegjhtDqi7E5cLXFxxEiKHxvg1MtNcCwcnH
zQr+d/OilUtXvzJg3pJtz+L80b0giEgxrAth3fnZGpTtJxMZxOy7mvNjUpScMqM9hYjJqQ==
-----END RSA PRIVATE KEY-----

```



← → 🔒 https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html 🔍 ☆ 🗄️ 📄 📥 📧

Download PuTTY: latest release (0.70)

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This page contains download links for the latest released version of PuTTY. Currently this is 0.70, released on 2017-07-08.

When new releases come out, this page will update to contain the latest, so this is a good page to bookmark or link to. Alternatively, here is a [permanent link to the 0.70 release](#).

Release versions of PuTTY are versions we think are reasonably likely to work well. However, they are often not the most up-to-date version of the code available. If you have a problem with this release, then it might be worth trying out the [development snapshots](#), to see if the problem has already been fixed in those versions.

Package files

You probably want one of these. They include all the PuTTY utilities.

(Not sure whether you want the 32-bit or the 64-bit version? Read the [FAQ entry](#).)

MSI ('Windows Installer')

32-bit:	putty-0.70-installer.msi	(or by FTP)	(signature)
64-bit:	putty-64bit-0.70-installer.msi	(or by FTP)	(signature)

Unix source archive

.tar.gz:	putty-0.70.tar.gz	(or by FTP)	(signature)
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Services ▾ Resource Groups ▾ ⌘
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EC2 Dashboard

- Events
- Tags
- Reports
- Limits
- ⊕ INSTANCES
- ⊕ IMAGES
- ⊕ ELASTIC BLOCK STORE
- ⊖ NETWORK & SECURITY
 - Security Groups
 - Elastic IPs
 - Placement Groups
 - Key Pairs
 - Network Interfaces
- ⊖ LOAD BALANCING
 - Load Balancers

Resources

You are using the following Amazon EC2 resources in the US East (Ohio) region:

1 Running Instances	0 Elastic IPs
0 Dedicated Hosts	0 Snapshots
1 Volumes	0 Load Balancers
2 Key Pairs	2 Security Groups
0 Placement Groups	

Learn more about the latest in AWS Compute from AWS re:Invent 2017 by viewing the [EC2 Videos](#).
✕

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance ▾

Note: Your instances will launch in the US East (Ohio) region

Service Health

Service Status:

Scheduled Events

US East (Ohio):

Account Attributes

- Supported Platforms
- VPC
- Default VPC
- vpc-48023d20
- Resource ID length management
- Console experiments

Additional Information

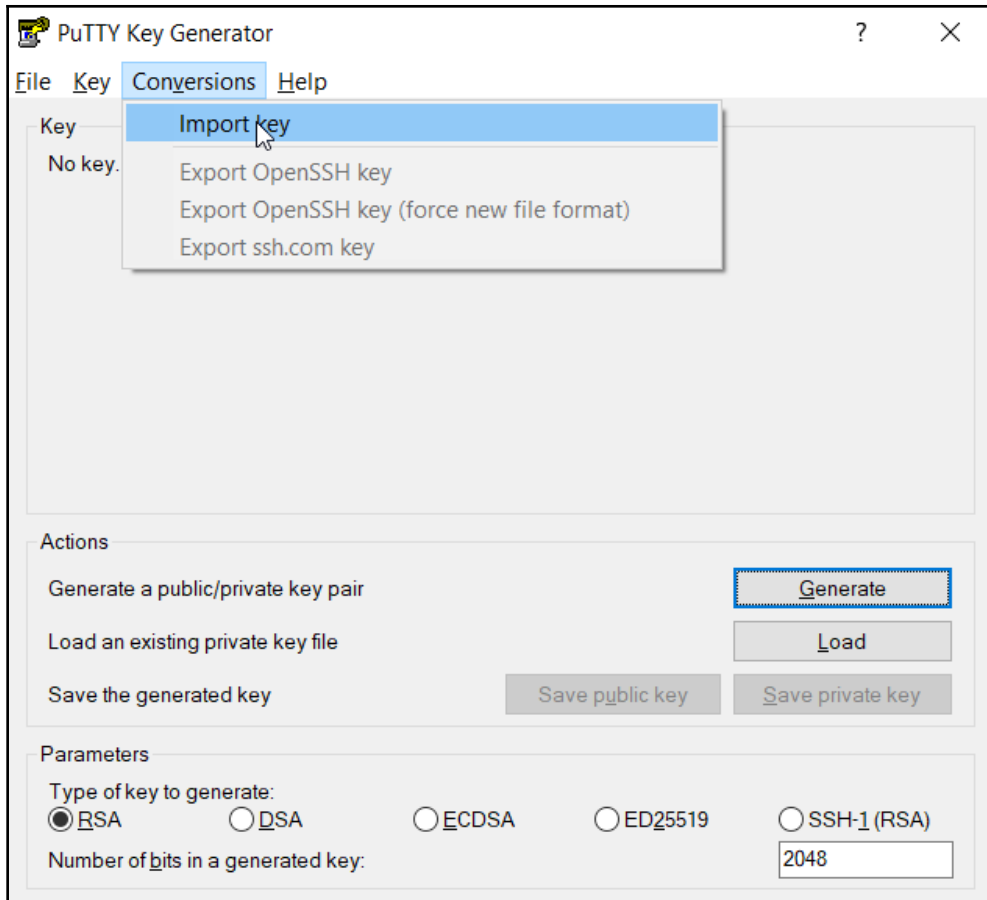
- [Getting Started Guide](#)
- [Documentation](#)
- [All EC2 Resources](#)
- [Forums](#)
- [Pricing](#)
- [Contact Us](#)

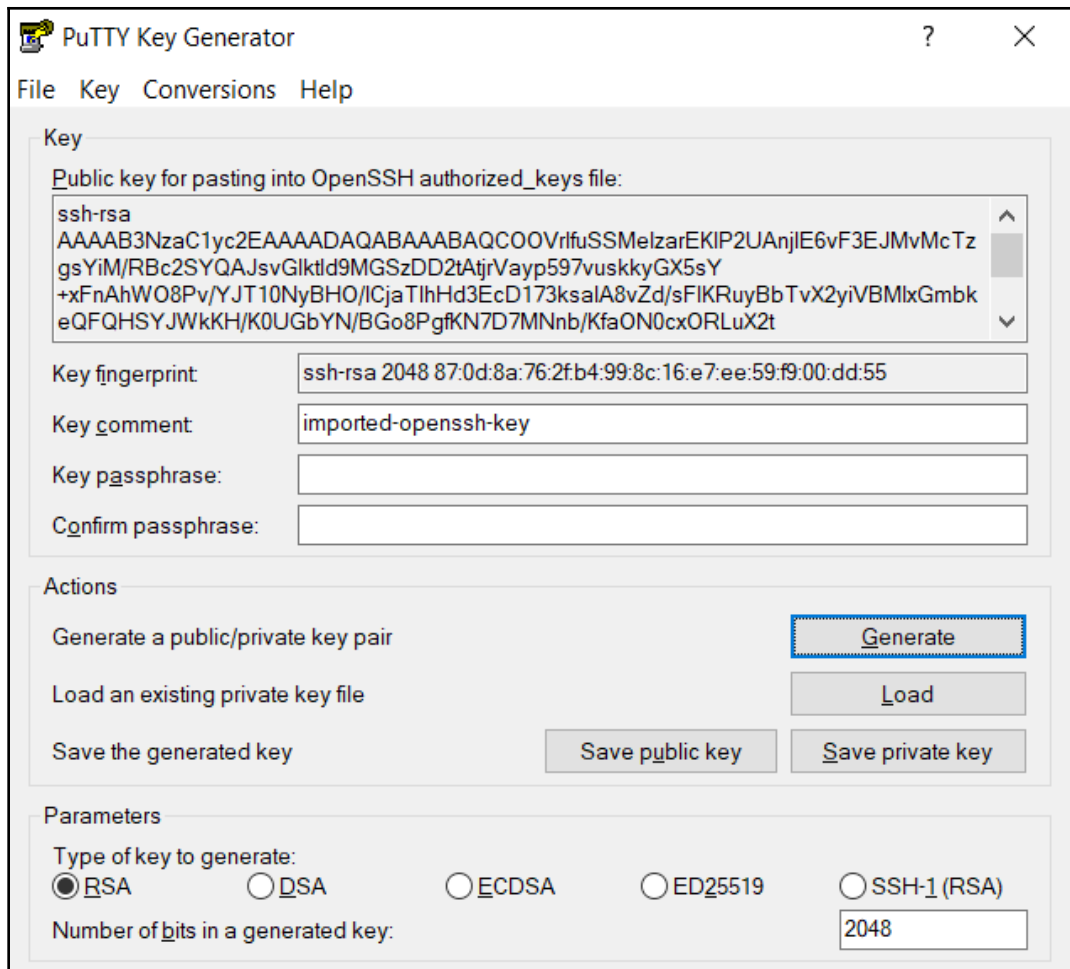
AWS Marketplace

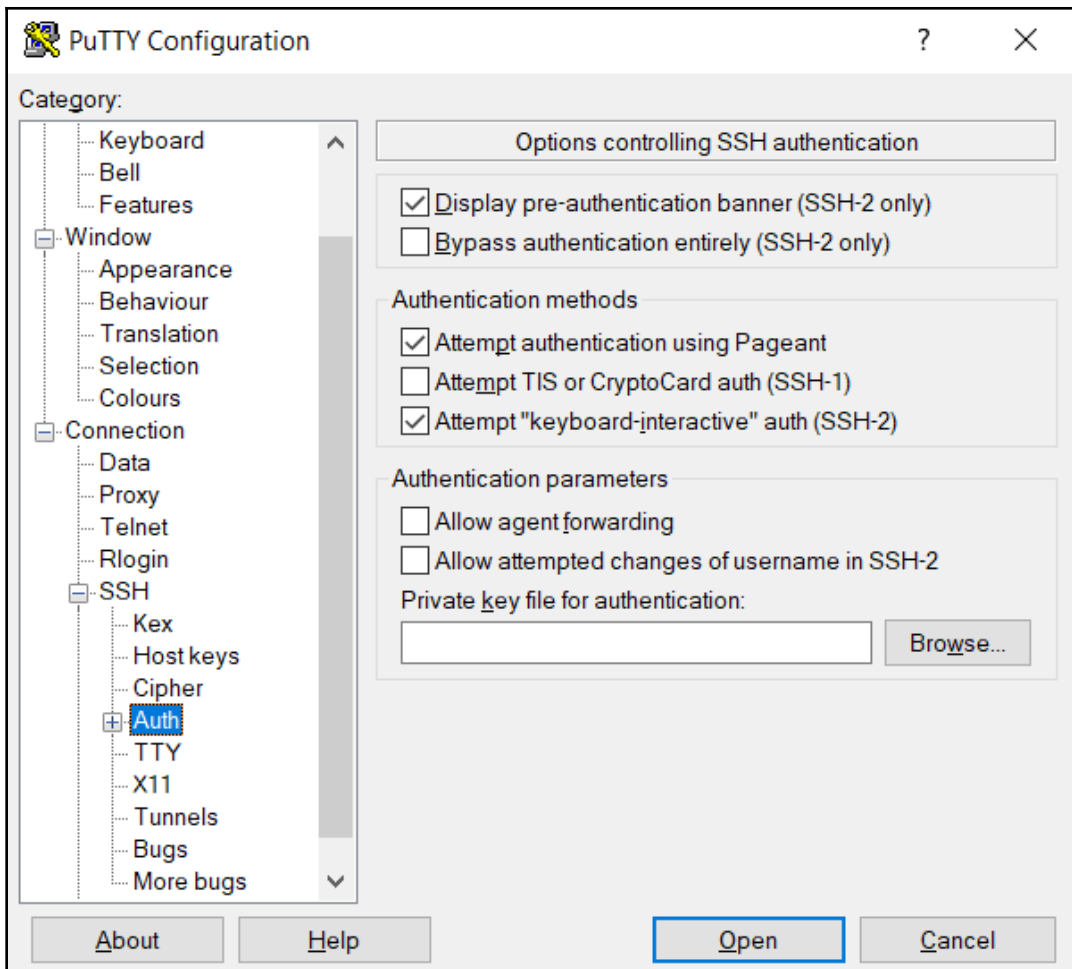
Find free software trial products in the AWS Marketplace from the [EC2](#)

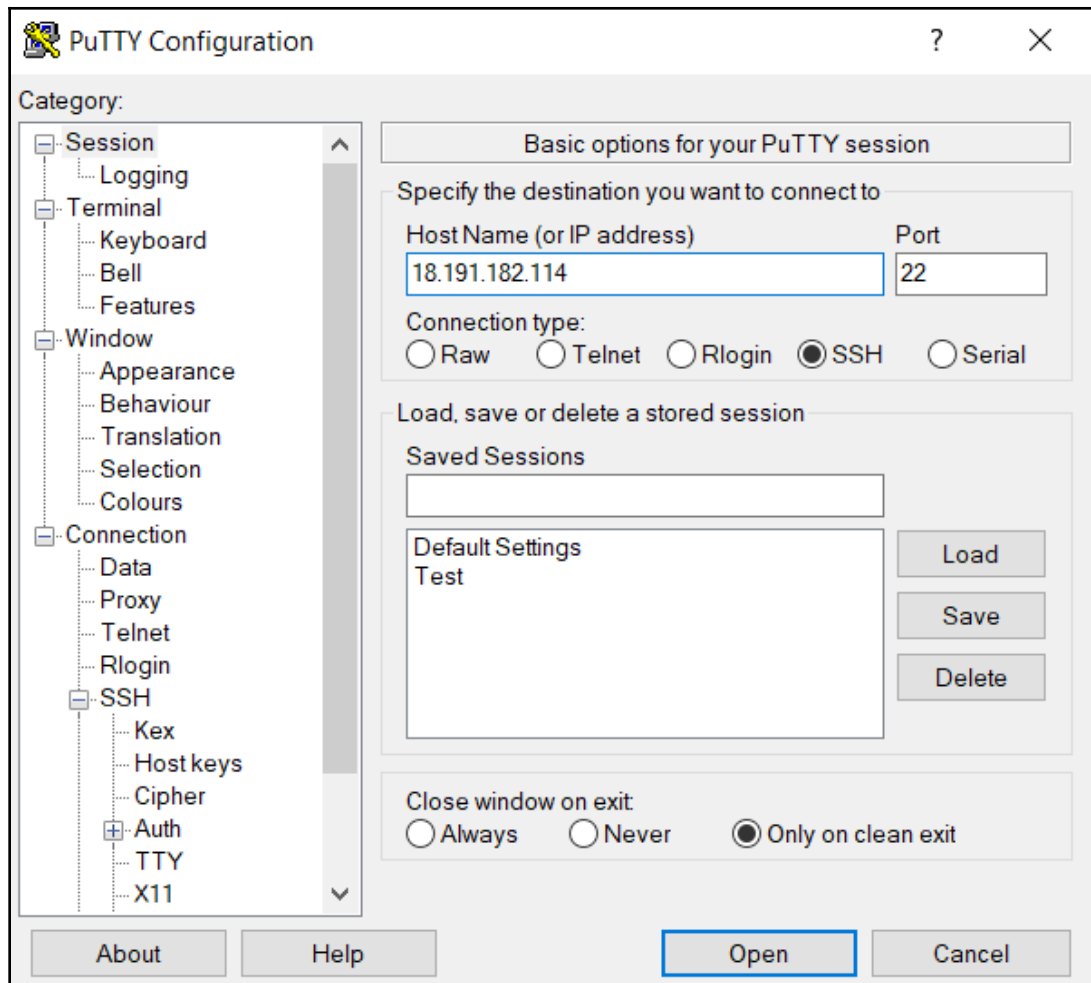
The screenshot shows the AWS Management Console interface for an EC2 instance. The instance is named 'i-0899a2dcf09ae1b3d' and is in a 'running' state. The public DNS is 'ec2-18-191-182-114.us-east-2.compute.amazonaws.com'. The public IPv4 address is '18.191.182.114', which is highlighted with a red box. Other details include the instance type 't2.micro', availability zone 'us-east-2b', and VPC ID 'vpc-48023d20'.

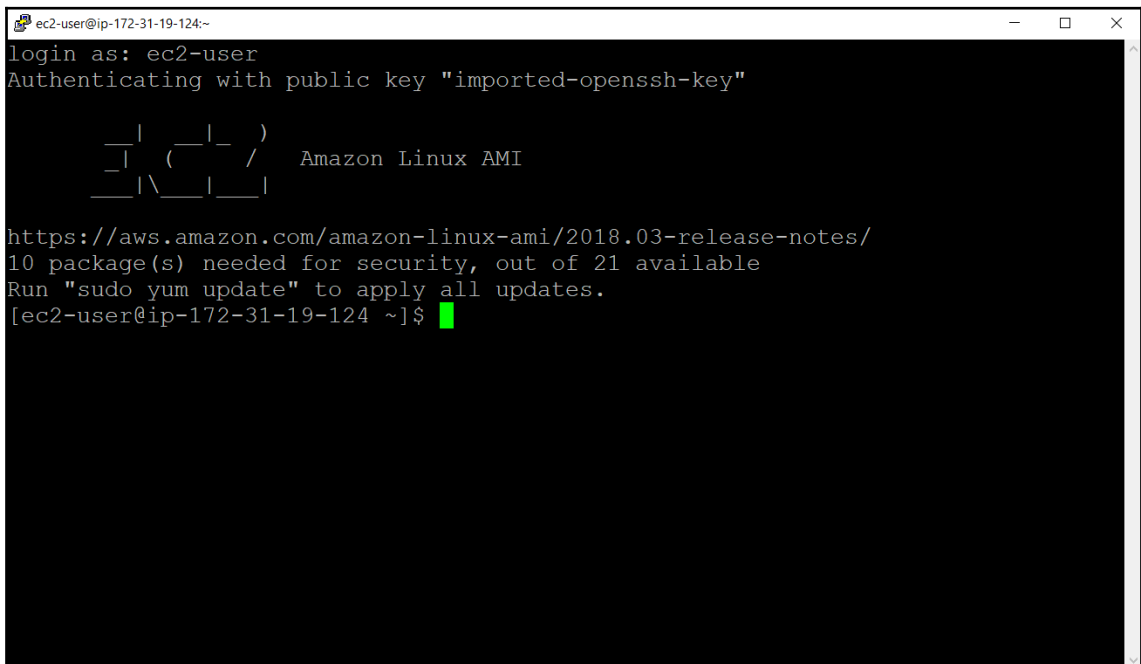
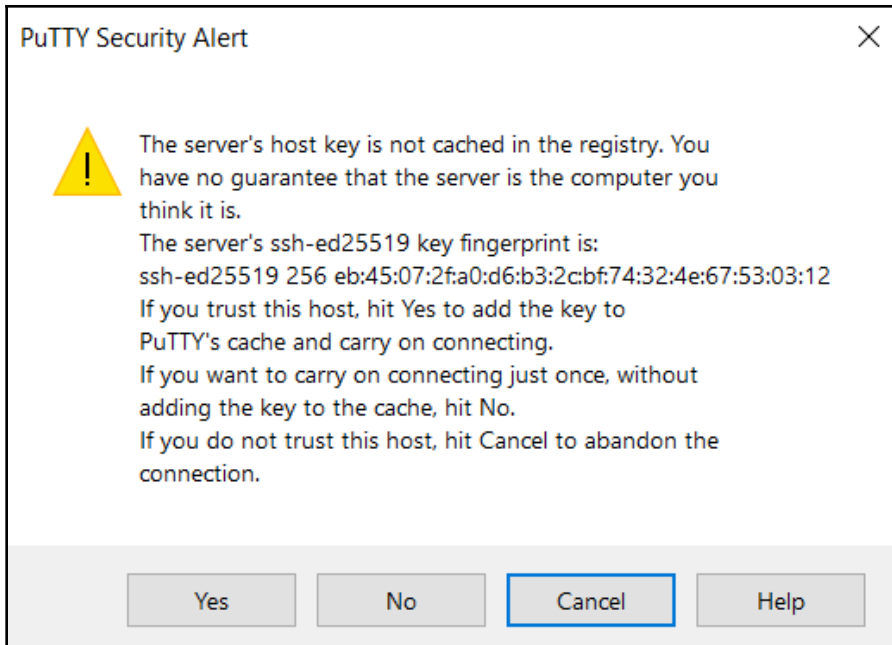
Name	Date modified	Type	Size
LICENCE	04-07-2017 19:31	File	2 KB
pageant.exe	04-07-2017 19:34	Application	307 KB
plink.exe	04-07-2017 19:34	Application	603 KB
pscp.exe	04-07-2017 19:34	Application	613 KB
psftp.exe	04-07-2017 19:34	Application	629 KB
putty.chm	04-07-2017 19:31	Compiled HTML H...	277 KB
putty.exe	04-07-2017 19:34	Application	835 KB
<input checked="" type="checkbox"/> puttygen.exe	04-07-2017 19:35	Application	398 KB
README.txt	04-07-2017 19:30	TXT File	2 KB
website	04-07-2017 19:30	Internet Shortcut	1 KB











ec2-user@ip-172-31-19-124:~

```
kernel x86_64 4.14.70-67.55.amzn1 amzn-updates 21 M
Updating:
amazon-ssm-agent x86_64 2.3.68.0-1.amzn1 amzn-updates 17 M
aws-cli noarch 1.15.83-1.49.amzn1 amzn-updates 1.2 M
e2fsprogs x86_64 1.43.5-2.42.amzn1 amzn-updates 1.5 M
e2fsprogs-libs x86_64 1.43.5-2.42.amzn1 amzn-updates 208 k
gnupg2 x86_64 2.0.28-2.33.amzn1 amzn-updates 2.6 M
java-1.7.0-openjdk x86_64 1:1.7.0.191-2.6.15.4.82.amzn1 amzn-updates 32 M
kernel-tools x86_64 4.14.70-67.55.amzn1 amzn-updates 126 k
krb5-libs x86_64 1.15.1-19.43.amzn1 amzn-updates 861 k
libcom_err x86_64 1.43.5-2.42.amzn1 amzn-updates 47 k
libss x86_64 1.43.5-2.42.amzn1 amzn-updates 52 k
libxml2 x86_64 2.9.1-6.3.52.amzn1 amzn-updates 723 k
libxml2-python27 x86_64 2.9.1-6.3.52.amzn1 amzn-updates 331 k
ntp x86_64 4.2.8p12-1.39.amzn1 amzn-updates 1.0 M
ntpd x86_64 4.2.8p12-1.39.amzn1 amzn-updates 89 k
openssh x86_64 7.4p1-16.71.amzn1 amzn-updates 639 k
openssh-clients x86_64 7.4p1-16.71.amzn1 amzn-updates 1.1 M
openssh-server x86_64 7.4p1-16.71.amzn1 amzn-updates 511 k
openssl x86_64 1:1.0.2k-12.110.amzn1 amzn-updates 1.8 M
procps x86_64 3.2.8-45.16.amzn1 amzn-updates 250 k
python27-boto noarch 1.10.82-1.67.amzn1 amzn-updates 4.5 M
Installing for dependencies:
copy-jdk-configs noarch 3.3-10.3.amzn1 amzn-updates 21 k
fuse-libs x86_64 2.9.4-1.17.amzn1 amzn-main 98 k
```

Transaction Summary

```
=====
Install 1 Package (+2 Dependent packages)
Upgrade 20 Packages
```

```
Total download size: 87 M
Is this ok [y/d/N]: 
```

Retrieve Default Windows Administrator Password

To access this instance remotely (e.g. Remote Desktop Connection), you will need your Windows Administrator password. A default password was created when the instance was launched and is available encrypted in the system log.

To decrypt your password, you will need your key pair for this instance. Browse to your key pair, or copy and paste the contents of your private key file into the text area below, then click Decrypt Password.

The following Key Pair was associated with this instance when it was created.

Key Name awsbook


In order to retrieve your password you will need to specify the path of this Key Pair on your local machine:


Key Pair Path awsbook.pem

Or you can copy and paste the contents of the Key Pair below:

```
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAIzQlibf8e3GF6p0CeqZDCM7SOXARJZAs5qEKxD4PUlgzmeqzStCiluEkHi
X1R56AIR/heBYRFvURfXzv6+ZkbNJRKVF3tYgkoWJqqOQxbKod7O0ypr6glwvS9htxBq7k7iyBD
/thhdJv5cXK4XyCnFv9HHQo21URvqvJLvVRvNgjDBFfhnvLQ7yla6xSGNSf5JIGZov8Mw+PTWAle
vs/sRuT1nqZ5XmZnK05eQZ2gkKQxCG5s9U/bTvG9jW8jS/26Ru5jKrmOyXfOQd0TtpWnVju0m64
PK2thCIHYJS/scy7aOhFsnV61UMVizUOnEcBylPjg+JtnP7WjV3uwIDAQABoIBAQC/MhhOTSLKt
```

Retrieve Default Windows Administrator Password

 **Password Decryption Successful**
The password for instance i-0595628fbd9f145 was successfully decrypted.

 **Password change recommended**
We recommend that you change your default password. Note: If a default password is changed, it cannot be retrieved through this tool. It's important that you change your password to one that you will remember.

You can connect remotely using this information:

Public DNS ec2-18-220-198-61.us-east-2.compute.amazonaws.com

User name Administrator

Password [w1DHcttg7n](#)

aws Services Resource Groups cleanclouds Ohio Support

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Launch Templates

Spot Requests

Reserved Instances

Dedicated Hosts

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

Create Security Group Actions

Group ID : sg-08e1cb4f6c23cc3ef Add filter

Name	Group ID	Group Name	VPC ID	Description
	sg-08e1cb4f6c23cc3ef	launch-wizard-2	vpc-48023d20	launch-wizard-2 created 2018-...

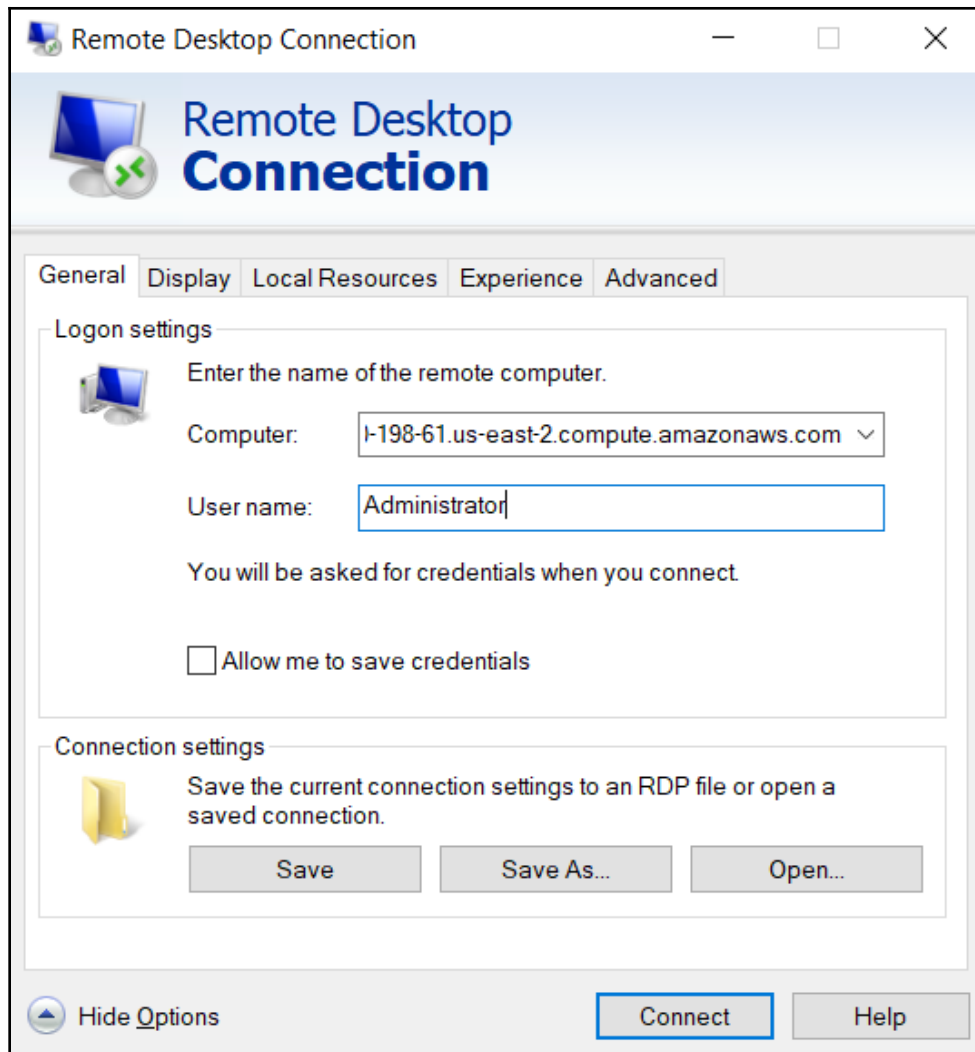
Security Group: sg-08e1cb4f6c23cc3ef

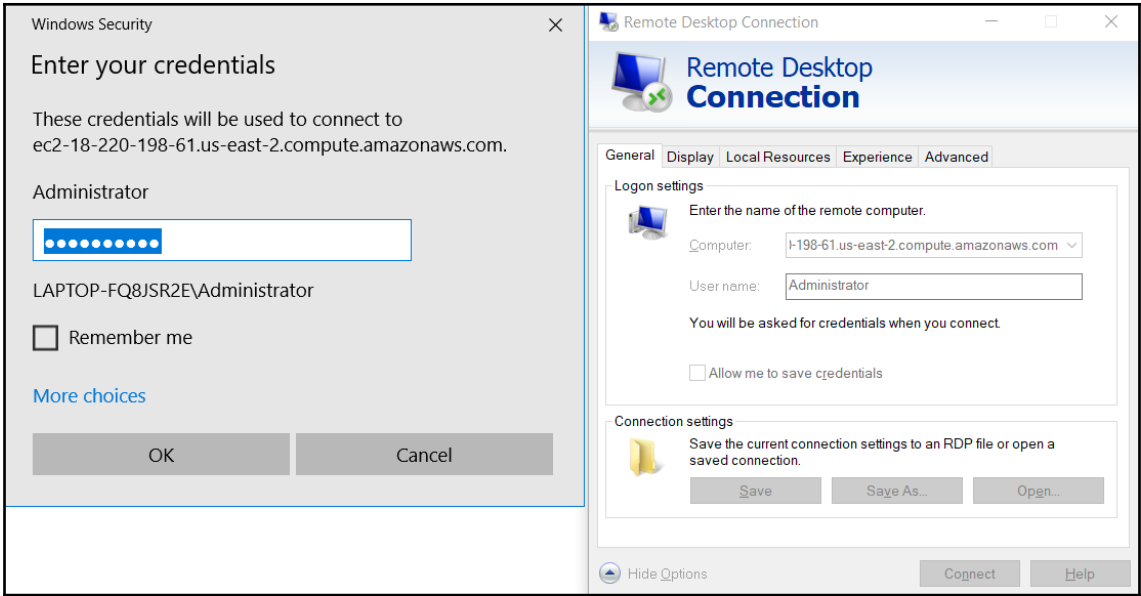
Description Inbound Outbound Tags

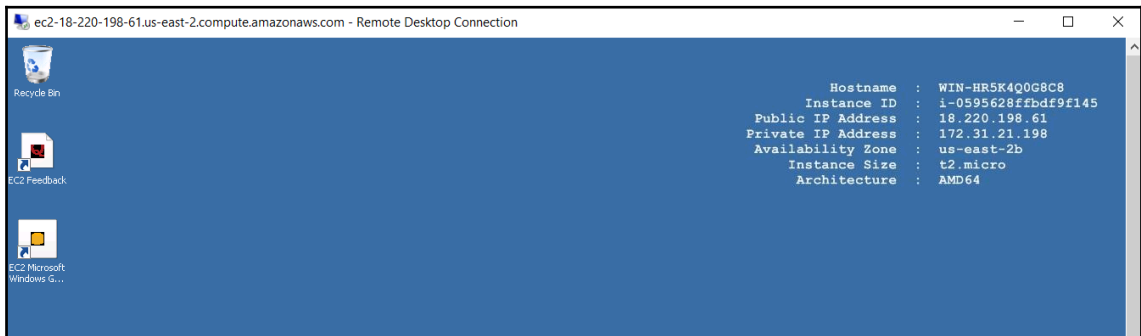
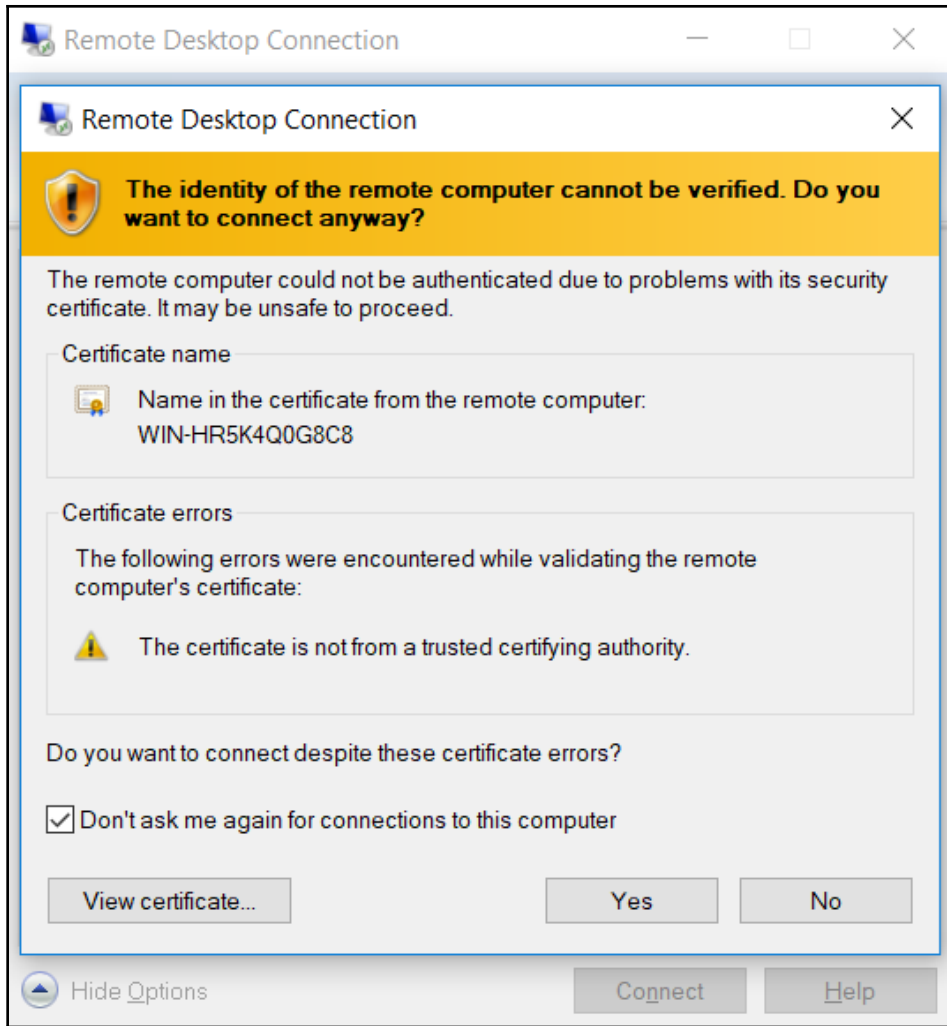
Edit

Type	Protocol	Port Range	Source	Description
RDP	TCP	3389	0.0.0.0/0	

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Chapter 04: Networking on AWS

CIDR Block	IP Range	Subnet Mask	IP Quantity
10.0.0.0/32	10.0.0.0 - 10.0.0.0	255.255.255.255	1
10.0.0.0/31	10.0.0.0 - 10.0.0.1	255.255.255.254	2
10.0.0.0/30	10.0.0.0 - 10.0.0.3	255.255.255.252	4
10.0.0.0/29	10.0.0.0 - 10.0.0.7	255.255.255.248	8
10.0.0.0/28	10.0.0.0 - 10.0.0.15	255.255.255.240	16
10.0.0.0/27	10.0.0.0 - 10.0.0.31	255.255.255.224	32
10.0.0.0/26	10.0.0.0 - 10.0.0.63	255.255.255.192	64
10.0.0.0/25	10.0.0.0 - 10.0.0.127	255.255.255.128	128
10.0.0.0/24	10.0.0.0 - 10.0.0.255	255.255.255.0	256

```
10.0.0.0 - 10.255.255.255 (16,777,216 addresses)
172.16.0.0 - 172.31.255.255 (1,048,576 addresses)
192.168.0.0 - 192.168.255.255 (65,536 addresses)
```

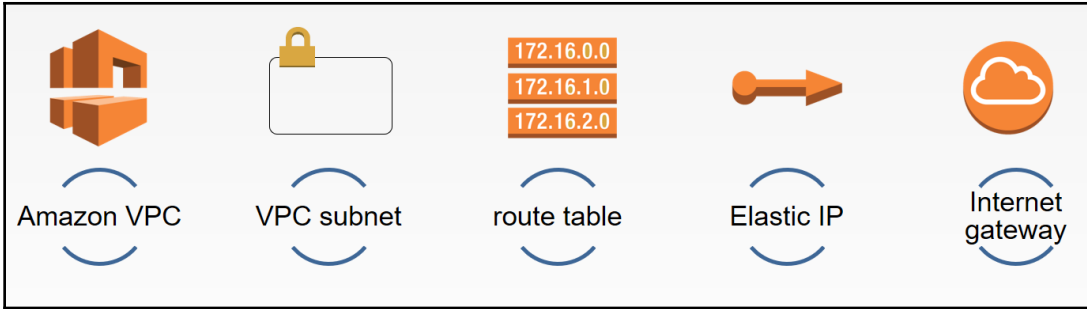
IP Addresses	Reserved for
10.0.0.0	Network address
10.0.0.1	Reserved by AWS for the VPC router
10.0.0.2	Reserved by AWS
10.0.0.3	Reserved by AWS for future use
10.0.0.255	Network broadcast address

The screenshot shows the AWS Management Console interface for an EC2 instance. The instance is named 'i-0899a2dcf09ae1b3d' and is in a 'running' state. The 'Description' tab is selected, displaying various instance attributes. The 'Private IPs' field is highlighted with a red box, showing the address '172.31.19.124'. Other visible attributes include Instance ID, Instance Type (t2.micro), Availability Zone (us-east-2b), Public DNS, and VPC ID.

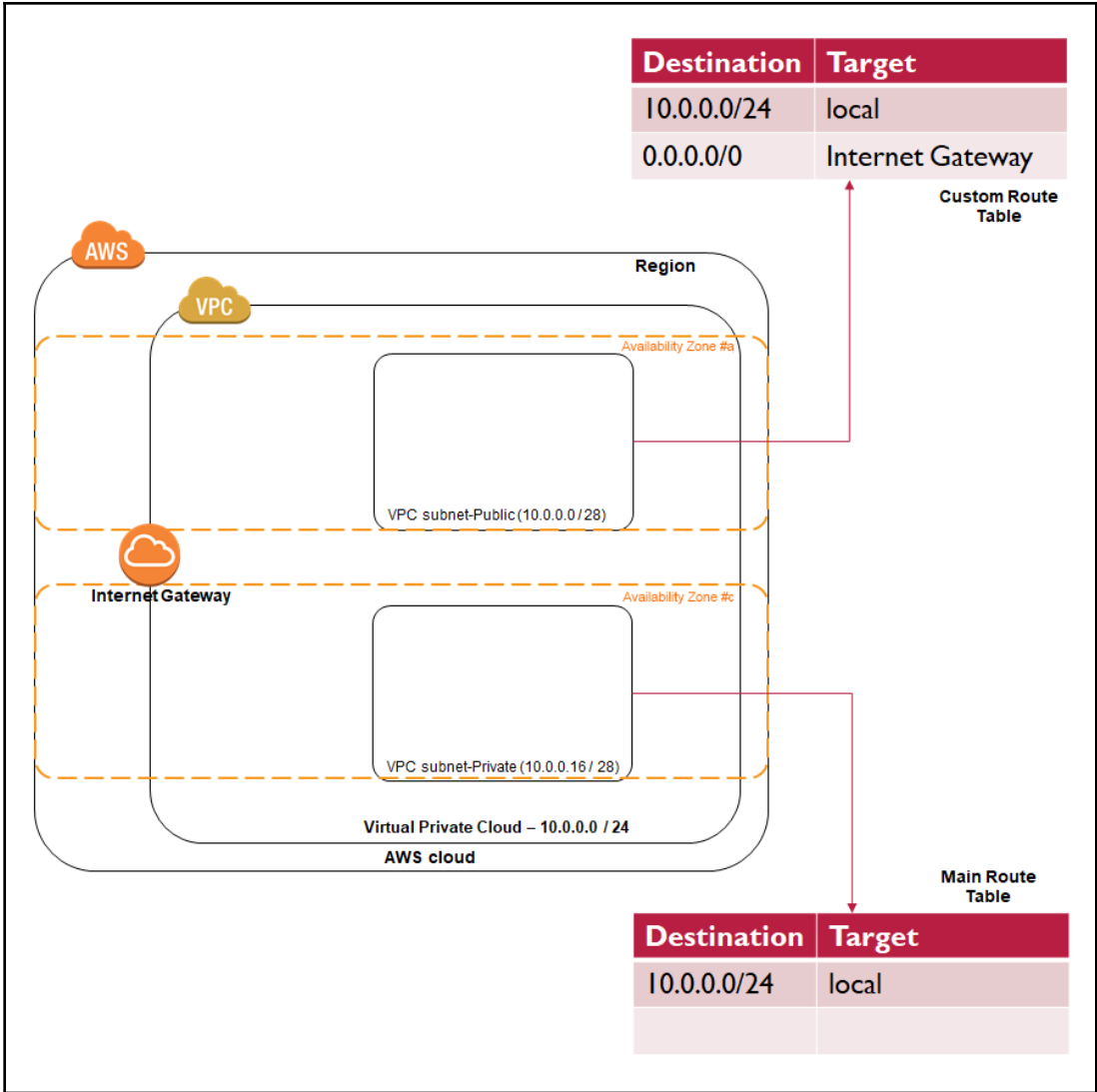
Attribute	Value
Instance ID	i-0899a2dcf09ae1b3d
Instance state	running
Instance type	t2.micro
Elastic IPs	-
Availability zone	us-east-2b
Private IPs	172.31.19.124
Public DNS (IPv4)	ec2-18-191-182-114.us-east-2.compute.amazonaws.com
IPv4 Public IP	-
Private DNS	ip-172-31-19-124.us-east-2.compute.internal
VPC ID	vpc-48023d20
Subnet ID	subnet-1c049966

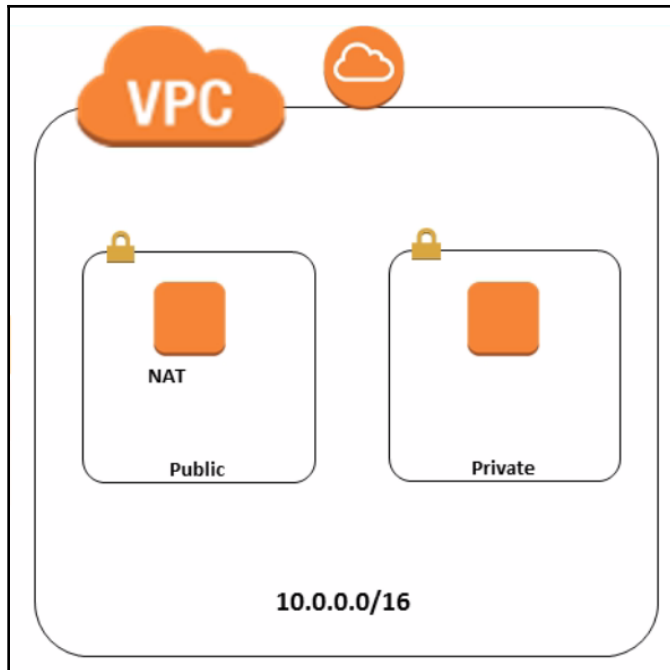
This screenshot shows the same AWS Management Console interface for the EC2 instance 'i-0899a2dcf09ae1b3d'. In this view, the 'IPv4 Public IP' field is highlighted with a red box, showing the address '18.191.182.114'. The instance is still in a 'running' state. The 'Description' tab is active, and other attributes like Instance ID, Instance Type, and Availability Zone are visible.

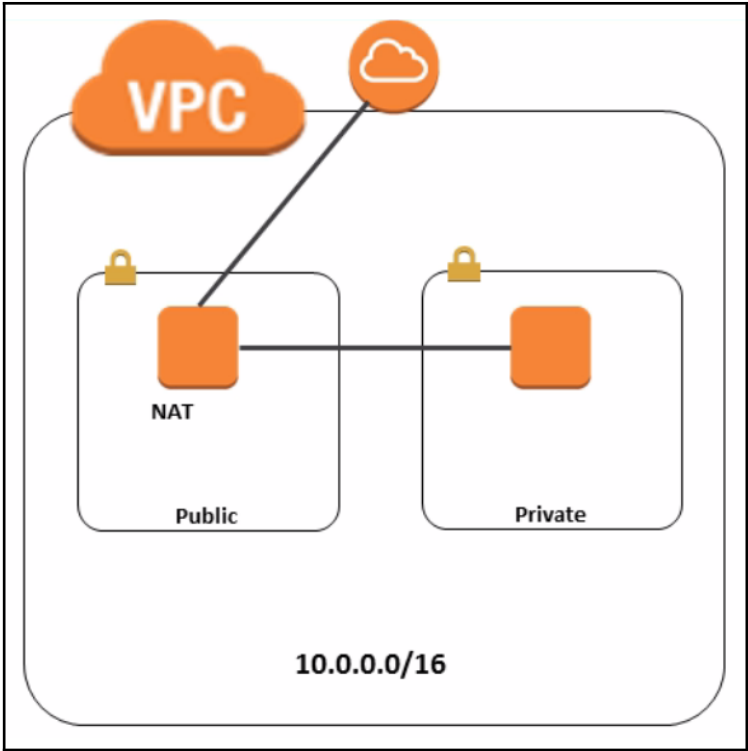
Attribute	Value
Instance ID	i-0899a2dcf09ae1b3d
Instance state	running
Instance type	t2.micro
IPv4 Public IP	18.191.182.114
Private IPs	172.31.19.124
Public DNS (IPv4)	ec2-18-191-182-114.us-east-2.compute.amazonaws.com
Private DNS	ip-172-31-19-124.us-east-2.compute.internal
VPC ID	vpc-48023d20
Subnet ID	subnet-1c049966

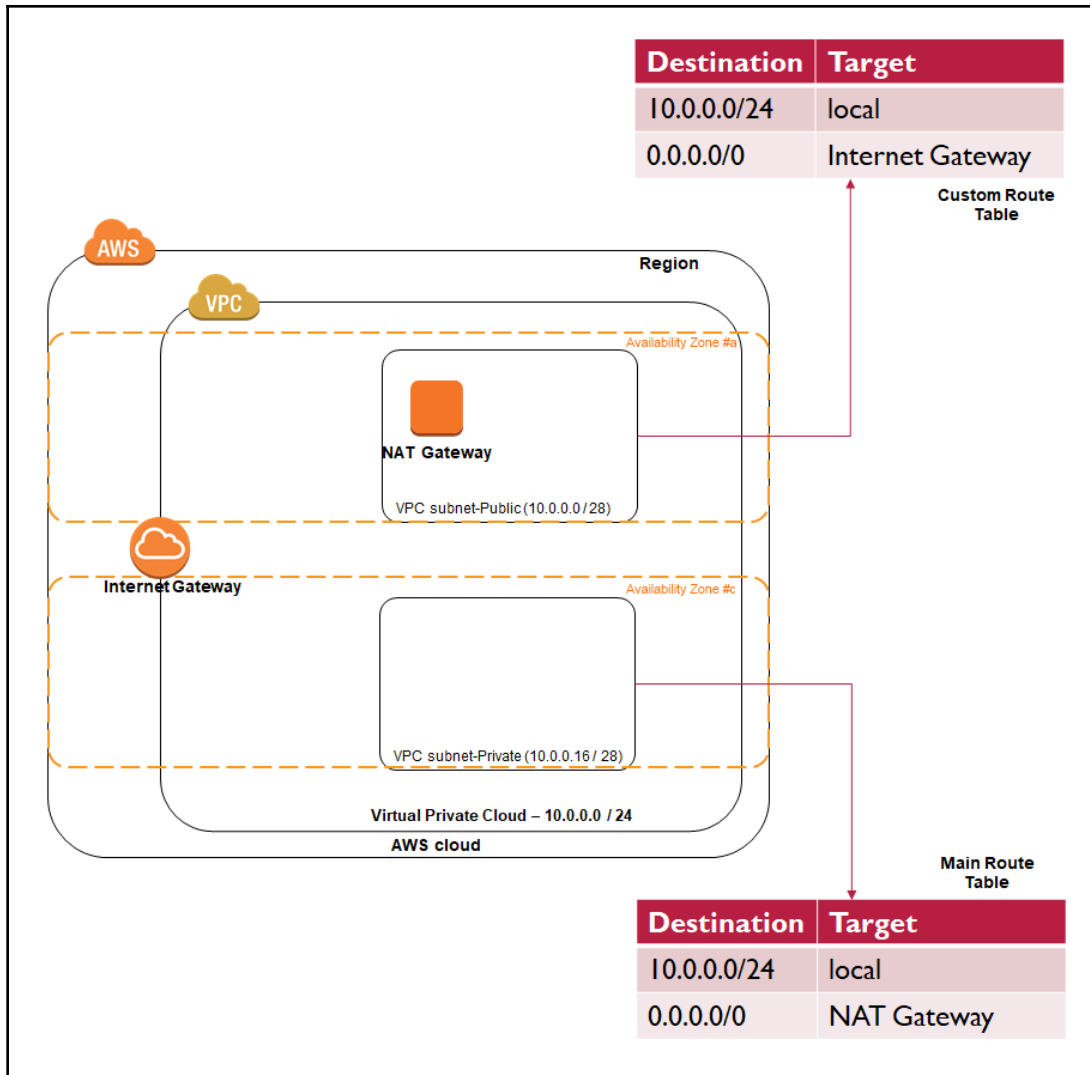


Destination	Target
10.0.0.0/16	Local
192.168.0.0/20	pcx-1234abcd
0.0.0.0/0	igw-1a2b3c4d

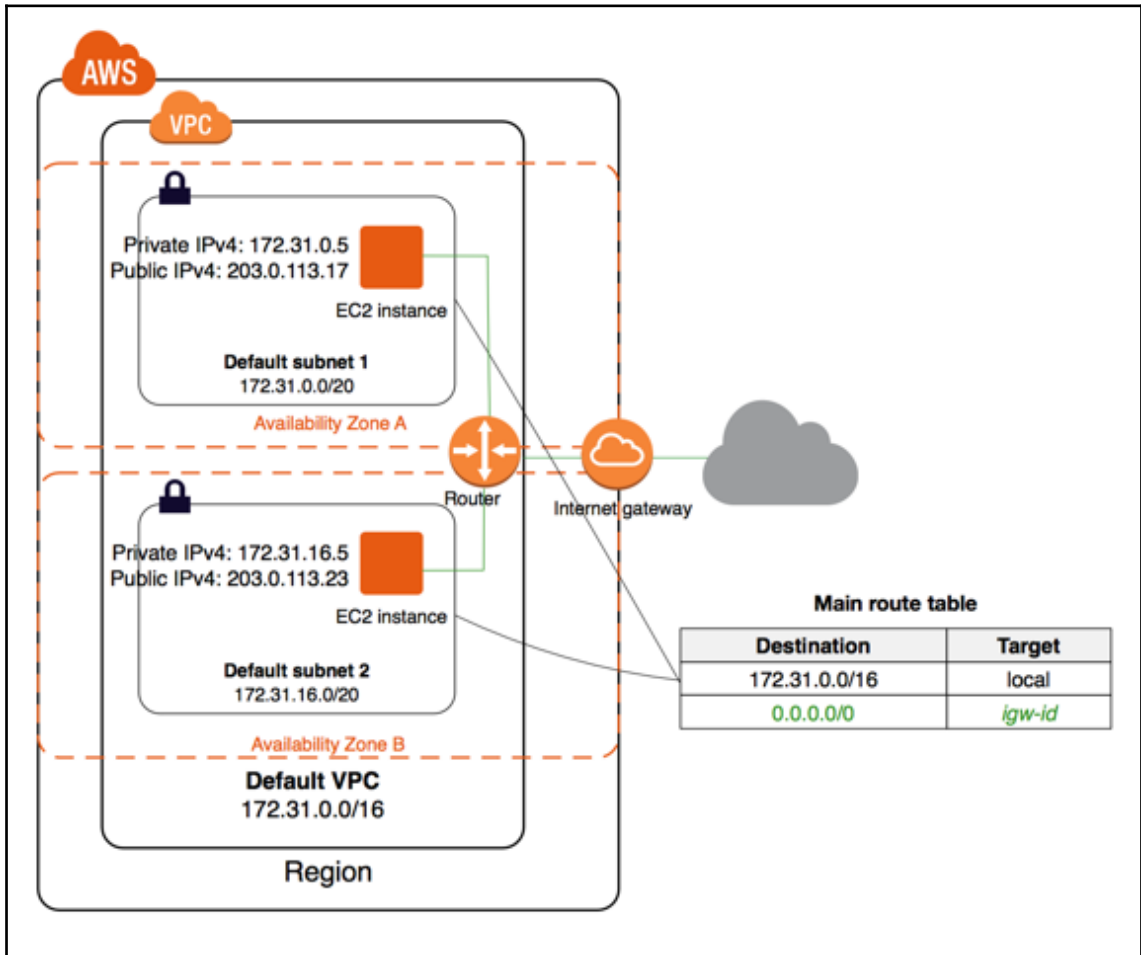








Chapter 05: Creating a VPC



aws Services Resource Groups cleanclouds Ohio Support

VPC Dashboard

Filter by VPC:

Search VPCs and their properties

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP options set	Route table
<input checked="" type="checkbox"/>	vpc-48023d20	available	172.31.0.0/16		dopt-6a495902	rtb-b46ca8df

vpc-48023d20

Summary | CIDR Blocks | Flow Logs | Tags

VPC ID: vpc-48023d20	Network ACL: acl-f7f2e89f
State: available	Tenancy: Default
IPv4 CIDR: 172.31.0.0/16	DNS resolution: yes
IPv6 CIDR:	DNS hostnames: yes
DHCP options set: dopt-6a495902	
Route table: rtb-b46ca8df	

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VPC Dashboard

Filter by VPC:

Filter by tags and attributes or search by keyword

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CID
<input checked="" type="checkbox"/>	subnet-1c049966	available	vpc-48023d20	172.31.16.0/20	4091	-
<input type="checkbox"/>	subnet-2edafd46	available	vpc-48023d20	172.31.0.0/20	4091	-
<input type="checkbox"/>	subnet-32d5117e	available	vpc-48023d20	172.31.32.0/20	4091	-

Subnet: subnet-1c049966

Description | Flow Logs | Route Table | Network ACL | Tags

Subnet ID: subnet-1c049966	State: available
VPC: vpc-48023d20	IPv4 CIDR: 172.31.16.0/20
Available IPv4 Addresses: 4091	IPv6 CIDR: -
Availability Zone: us-east-2b	Route Table: rtb-b46ca8df
Network ACL: acl-f7f2e89f	Default subnet: Yes
Auto-assign public IPv4 address: Yes	Auto-assign IPv6 address: No

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VPC Dashboard

Filter by VPC: Select a VPC

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Create Route Table Delete Route Table Set As Main Table

Search Route Tables and thei X

<< 1 to 1 of 1 Route Table >>

Name	Route Table ID	Explicitly Associat*	Main	VPC
	rtb-b46ca8df	0 Subnets	Yes	vpc-48023d20

rtb-b46ca8df

Summary Routes Subnet Associations Route Propagation Tags

Edit

View: All rules

Destination	Target	Status	Propagated
172.31.0.0/16	local	Active	No
0.0.0.0/0	igw-e25e878a	Active	No

aws Services Resource Groups cleanclouds Ohio Support

VPC Dashboard

Filter by VPC: Select a VPC

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Create internet gateway Actions

Filter by tags and attributes or search by keyword

< 1 to 1 of 1 >

Name	ID	State	VPC
	igw-e25e878a	attached	vpc-48023d20

Internet gateway: igw-e25e878a

Description Tags

ID	Attached VPC ID
igw-e25e878a	vpc-48023d20

State attached

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VPC Dashboard

Filter by VPC: Select a VPC

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Create Network ACL Delete

Search Network ACLs and the X << 1 to 1 of 1 Network ACL >>

Name	Network ACL ID	Associated With	Default	VPC
	acl-f7f2e89f	3 Subnets	Yes	vpc-48023d20

acl-f7f2e89f

Summary Inbound Rules Outbound Rules Subnet Associations Tags

Allows inbound traffic. Because network ACLs are stateless, you must create inbound and outbound rules.

Edit

View: All rules

Rule #	Type	Protocol	Port Range	Source	Allow / Deny
100	ALL Traffic	ALL	ALL	0.0.0.0/0	ALLOW
*	ALL Traffic	ALL	ALL	0.0.0.0/0	DENY

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VPC Dashboard

Filter by VPC: Select a VPC

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Launch VPC Wizard Launch EC2 Instances

Note: Your Instances will launch in the US East (Ohio) region.

Resources by Region Refresh Resources

You are using the following Amazon VPC resources

VPCs See all regions	Ohio 1	Nat Gateways See all regions	Ohio 0
Subnets See all regions	Ohio 3	VPC Peering Connections See all regions	Ohio 0
Route Tables See all regions	Ohio 1	Network ACLs See all regions	Ohio 1
Internet Gateways See all regions	Ohio 1	Security Groups See all regions	Ohio 3
Egress-only Internet	Ohio 0		

Service Health

Current Status	Details
Amazon EC2 - US East (Ohio)	Service is operating normally

View complete service health details

Account Attributes

Resource ID length management

Additional Information

VPC Documentation

All VPC Resources

Forums

Report an Issue

VPN Connections

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aws Services Resource Groups cleanclouds Ohio Support

Step 1: Select a VPC Configuration

VPC with a Single Public Subnet

VPC with Public and Private Subnets

VPC with Public and Private Subnets and Hardware VPN Access

VPC with a Private Subnet Only and Hardware VPN Access

Your instances run in a private, isolated section of the AWS cloud with direct access to the Internet. Network access control lists and security groups can be used to provide strict control over inbound and outbound network traffic to your instances.

Creates:

A /16 network with a /24 subnet. Public subnet instances use Elastic IPs or Public IPs to access the Internet.

[Select](#)

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aws Services Resource Groups cleanclouds Ohio Support

Step 1: Select a VPC Configuration

VPC with a Single Public Subnet

VPC with Public and Private Subnets

VPC with Public and Private Subnets and Hardware VPN Access

VPC with a Private Subnet Only and Hardware VPN Access

In addition to containing a public subnet, this configuration adds a private subnet whose instances are not addressable from the Internet. Instances in the private subnet can establish outbound connections to the Internet via the public subnet using Network Address Translation (NAT).

Creates:

A /16 network with two /24 subnets. Public subnet instances use Elastic IPs to access the Internet. Private subnet instances access the Internet via Network Address Translation (NAT). (Hourly charges for NAT devices apply.)

[Select](#)

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aws Services Resource Groups cleanclouds Ohio Support

Step 1: Select a VPC Configuration

VPC with a Single Public Subnet

VPC with Public and Private Subnets

VPC with Public and Private Subnets and Hardware VPN Access

VPC with a Private Subnet Only and Hardware VPN Access

This configuration adds an IPsec Virtual Private Network (VPN) connection between your Amazon VPC and your data center - effectively extending your data center to the cloud while also providing direct access to the Internet for public subnet instances in your Amazon VPC.

Creates:

A /16 network with two /24 subnets. One subnet is directly connected to the Internet while the other subnet is connected to your corporate network via IPsec VPN tunnel. (VPN charges apply.)

[Select](#)

Internet, S3, DynamoDB, SNS, SQS, etc.

Amazon Virtual Private Cloud

Public Subnet Private Subnet

VPN

Corporate Data Center

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aws Services Resource Groups cleanclouds Ohio Support

Step 1: Select a VPC Configuration

VPC with a Single Public Subnet

VPC with Public and Private Subnets

VPC with Public and Private Subnets and Hardware VPN Access

VPC with a Private Subnet Only and Hardware VPN Access

Your instances run in a private, isolated section of the AWS cloud with a private subnet whose instances are not addressable from the Internet. You can connect this private subnet to your corporate data center via an IPsec Virtual Private Network (VPN) tunnel.

Creates:

A /16 network with a /24 subnet and provisions an IPsec VPN tunnel between your Amazon VPC and your corporate network. (VPN charges apply.)

[Select](#)

Amazon Virtual Private Cloud

Subnet

VPN

Corporate Data Center

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Step 2: VPC with Public and Private Subnets

IPv4 CIDR block:* (65531 IP addresses available)

IPv6 CIDR block: No IPv6 CIDR Block
 Amazon provided IPv6 CIDR block

VPC name:

Public subnet's IPv4 CIDR:* (251 IP addresses available)

Availability Zone:*

Public subnet name:

Private subnet's IPv4 CIDR:* (251 IP addresses available)

Availability Zone:*

Private subnet name:

You can add more subnets after AWS creates the VPC.

Specify the details of your NAT gateway (NAT gateway rates apply). [Use a NAT instance instead](#)

Elastic IP Allocation ID:*

Service endpoints

Enable DNS hostnames:* Yes No

Hardware tenancy:*

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Specify the details of your NAT instance (Instance rates apply). [Use a NAT gateway instead](#)

Instance type:*

Key pair name:

Service endpoints

Enable DNS hostnames:* Yes No

Hardware tenancy:*

Service endpoints

aws Services Resource Groups cleanclouds

Service endpoints

Service: ⓘ

⚠ Currently supported for gateway endpoints only. You can create an interface endpoint on the [Endpoints page](#) after you create your VPC.

Subnet:

Policy* Full Access - Allow access by any user or service within the VPC using credentials from any AWS accounts to any resources in this AWS service. All policies — IAM user policies, VPC endpoint policies, and AWS service-specific policies (e.g. Amazon S3 bucket policies, any S3 ACL policies) — must grant the necessary permissions for access to succeed. ⓘ

Custom

Use the [policy creation tool](#) to generate a policy, then paste the generated policy below.

```
{
  "Statement": [
    {
      "Action": "*",
      "Effect": "Allow",
      "Resource": "*",
      "Principal": "*"
    }
  ]
}
```

Enable DNS hostnames: Yes No

Hardware tenancy:

[Cancel and Exit](#) [Back](#) [Create VPC](#)

VPC Successfully Created

Your VPC has been successfully created.

You can launch instances into the subnets of your VPC. For more information, see [Launching an Instance into Your Subnet](#).

[OK](#)

The screenshot shows the AWS VPC Dashboard. On the left is a navigation menu with categories like 'Virtual Private Cloud', 'Your VPCs', 'Subnets', 'Route Tables', etc. The main area displays a table of VPCs with a search filter set to 'Training'. One VPC, 'TrainingDemo', is listed with details: VPC ID: vpc-0af77788..., State: available, IPv4 CIDR: 10.0.0.0/16, DHCP options set: dopt-6a495902, and Route table: rtb-0ae25cce14... Below the table, the 'Summary' tab for 'vpc-0af777887a1118bef | TrainingDemo' is active, showing: VPC ID: vpc-0af777887a1118bef | TrainingDemo, State: available, IPv4 CIDR: 10.0.0.0/16, IPv6 CIDR: (empty), DHCP options set: dopt-6a495902, Route table: rtb-0ae25cce140bb2269, Network ACL: acl-06d5bcc42ed518f33, Tenancy: Default, DNS resolution: yes, and DNS hostnames: yes.

The screenshot shows the same AWS VPC Dashboard, but with a 'Create VPC' modal dialog open in the foreground. The dialog contains the following information:

- Description:** A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. You must specify an IPv4 address range for your VPC. Specify the IPv4 address range as a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16. You cannot specify an IPv4 CIDR block larger than /16. You can optionally associate an Amazon-provided IPv6 CIDR block with the VPC.
- Name tag:** ScartchVPC
- IPv4 CIDR block*:** 192.168.0.0/16
- IPv6 CIDR block*:** No IPv6 CIDR Block, Amazon provided IPv6 CIDR block
- Tenancy:** Default

 At the bottom of the dialog are 'Cancel' and 'Yes, Create' buttons.

aws Services Resource Groups cleanclouds Ohio Support

VPC Dashboard

Filter by VPC: Select a VPC

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Create VPC Actions

Search VPCs and their properties

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP options set	Route table
	vpc-48023d20	available	172.31.0.0/16		dopt-6a495902	rtb-b46ca8df
ScratchVPC	vpc-00999c48...	available	192.168.0.0/16		dopt-6a495902	rtb-065ac615f7...
TrainingDemo	vpc-0af77788...	available	10.0.0.0/16		dopt-6a495902	rtb-0ae25cce14...

vpc-00999c48787d5e681 | ScratchVPC

Summary CIDR Blocks Flow Logs Tags

VPC ID: vpc-00999c48787d5e681 | ScratchVPC

State: available

IPv4 CIDR: 192.168.0.0/16

IPv6 CIDR:

DHCP options set: dopt-6a495902

Route table: rtb-065ac615f7dcf78tc

Network ACL: acl-080850d72e13cd7dd

Tenancy: Default

DNS resolution: yes

DNS hostnames: no

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Internet gateways > Create internet gateway

Create internet gateway

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Name tag

* Required Cancel Create

aws Services Resource Groups cleanclouds Ohio Support

Internet gateways > Attach to VPC

Attach to VPC

Attach an internet gateway to a VPC to enable communication with the internet. Specify the VPC you would like to attach below.

VPC*

Filter by attributes

VPC ID	Name
vpc-00999c48787d5e681	ScratchVPC

* Required Cancel Attach

aws Services Resource Groups cleanclouds Ohio Support

Subnets > Create subnet

Create subnet

Specify your subnet's IP address block in CIDR format; for example, 10.0.0.0/24. IPv4 block sizes must be between a /16 netmask and /28 netmask, and can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

Name tag

VPC*

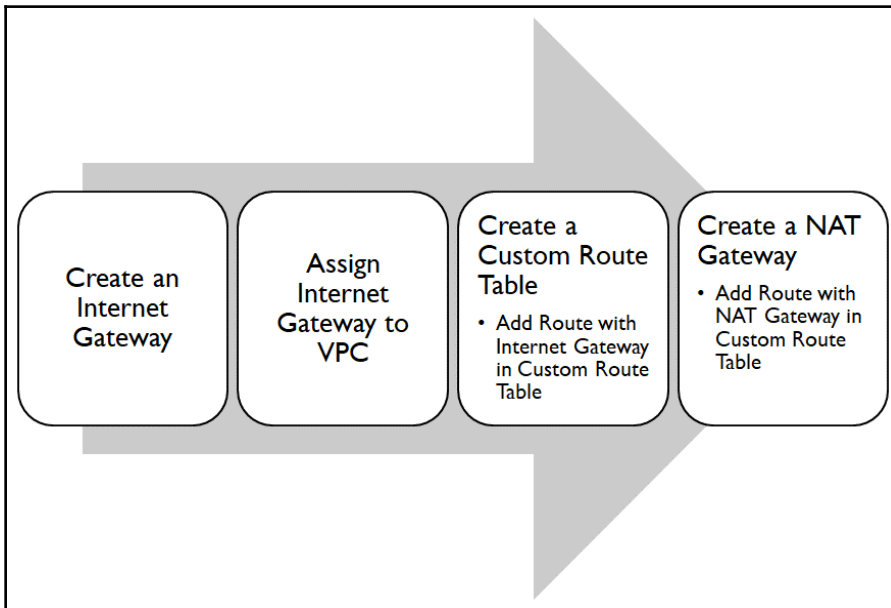
VPC CIDRs	CIDR	Status	Status Reason
	192.168.0.0/16	associated	

Availability Zone

IPv4 CIDR block*

* Required Cancel Create

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Create Route Table ✕

A route table specifies how packets are forwarded between the subnets within your VPC, the Internet, and your VPN connection.

Name tag i

VPC i

[Cancel](#) [Yes, Create](#)

The screenshot shows the AWS Management Console interface. On the left is a navigation sidebar with categories like Virtual Private Cloud, Your VPCs, Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Endpoints, Endpoint Services, and NAT Gateways. The main content area is titled 'VPC Dashboard' and contains a 'Create Route Table' button, a search bar, and a table of route tables. The table has columns for Name, Route Table ID, Explicitly Associated, Main, and VPC. One route table, 'PublicRouteTable', is selected. Below the table, the details for 'rtb-0896cf35d0bbfb0a1 | PublicRouteTable' are shown, including tabs for Summary, Routes, Subnet Associations, Route Propagation, and Tags. The 'Routes' tab is active, showing a table with columns for Destination, Target, Status, and Propagated. A single route is listed with Destination '192.168.0.0/16', Target 'local', Status 'Active', and Propagated 'No'.

Name	Route Table ID	Explicitly Associated	Main	VPC
	rtb-065ac615f7dcf...	0 Subnets	Yes	vpc-00999c48787d5e681 ScartchVPC
PublicRouteTable	rtb-0896cf35d0bbfb...	0 Subnets	No	vpc-00999c48787d5e681 ScartchVPC
	rtb-b46ca8df	0 Subnets	Yes	vpc-48023d20
	rtb-00734dhe24447	1 Subnet	No	vpc-0af777887a1118bef1.TrainingDe

Destination	Target	Status	Propagated
192.168.0.0/16	local	Active	No

rtb-054a47c242ed87df5 | PublicRouteTable

Summary Routes Subnet Associations Route Propagation Tags

Cancel Save

View: All rules

Destination	Target	Status	Propagated	Remove
192.168.0.0/16	local	Active	No	
<input type="text" value="0.0.0.0/0"/>	<input type="text" value="igw-05eb8e92087173726"/>		No	<input type="button" value="x"/>

Add another route

rtb-054a47c242ed87df5 | PublicRouteTable

Summary Routes Subnet Associations Route Propagation Tags

Edit

Subnet	IPv4 CIDR	IPv6 CIDR
You do not have any subnet associations.		

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

rtb-054a47c242ed87df5 | PublicRouteTable

Summary Routes Subnet Associations Route Propagation Tags



Cancel Save



Associate	Subnet	IPv4 CIDR	IPv6 CIDR	Current Route Table
<input checked="" type="checkbox"/>	subnet-00c64b67d84399200 Public1	192.168.0.0/24	-	Main

NAT Gateways > Create NAT Gateway

Create NAT Gateway

Create a NAT gateway and assign it an Elastic IP address. [Learn more.](#)

Subnet*  


Elastic IP Allocation ID*  

New EIP (52.71.84.72) creation successful.

* Required

NAT Gateways > Create NAT Gateway

Create NAT Gateway


 **Your NAT gateway has been created.**
 Note: In order to use your NAT gateway, ensure that you [edit your route tables](#) to include a route with the following NAT gateway.
[Find out more.](#)


NAT Gateway ID `nat-02180bb8e40cd1a5`

Subnets > Create subnet


Create subnet


Specify your subnet's IP address block in CIDR format; for example, 10.0.0.0/24. IPv4 block sizes must be between a /16 netmask and /28 netmask, and can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

Name tag 

VPC* 

VPC CIDRs	CIDR	Status	Status Reason
	192.168.0.0/16	associated	

Availability Zone 

IPv4 CIDR block* 

* Required

rtb-02c4c8f0ac6840b18 | PrivateRouteTable

Summary Routes Subnet Associations Route Propagation Tags

Cancel Save

View: All rules

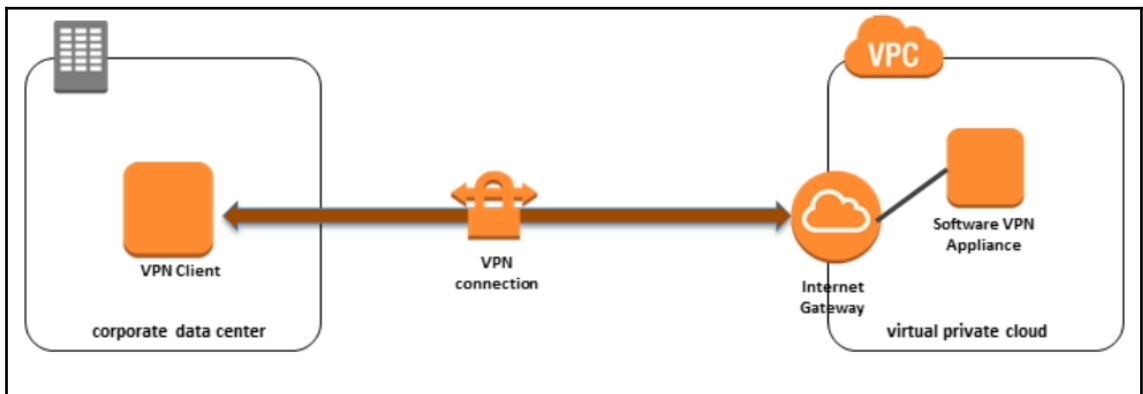
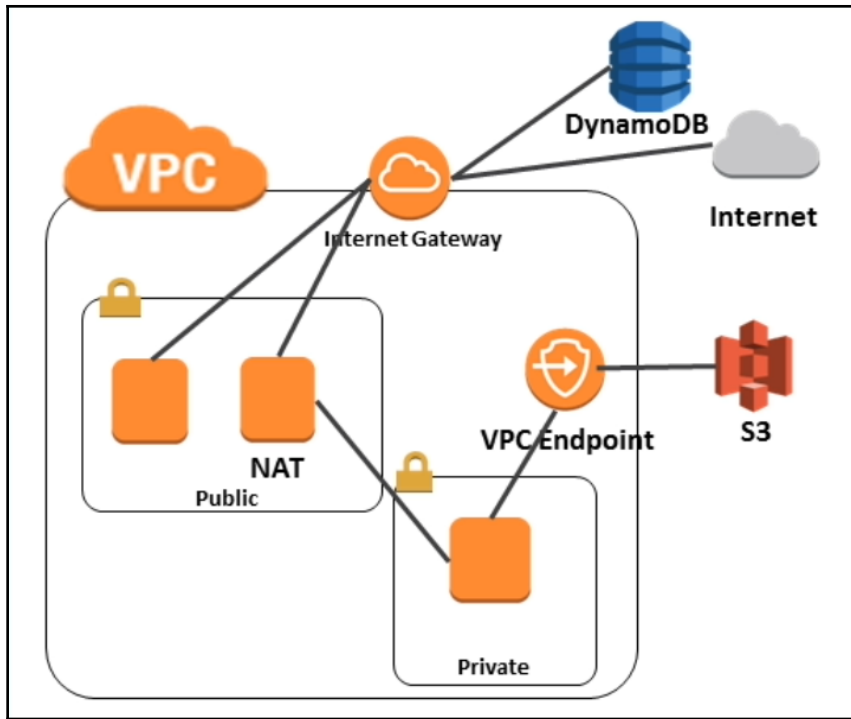
Destination	Target	Status	Propagated	Remove
192.168.0.0/16	local	Active	No	
<input type="text" value="0.0.0.0/0"/>	<input type="text" value="nat-02180bbb8e40cd1a5"/>		No	<input type="button" value="✕"/>

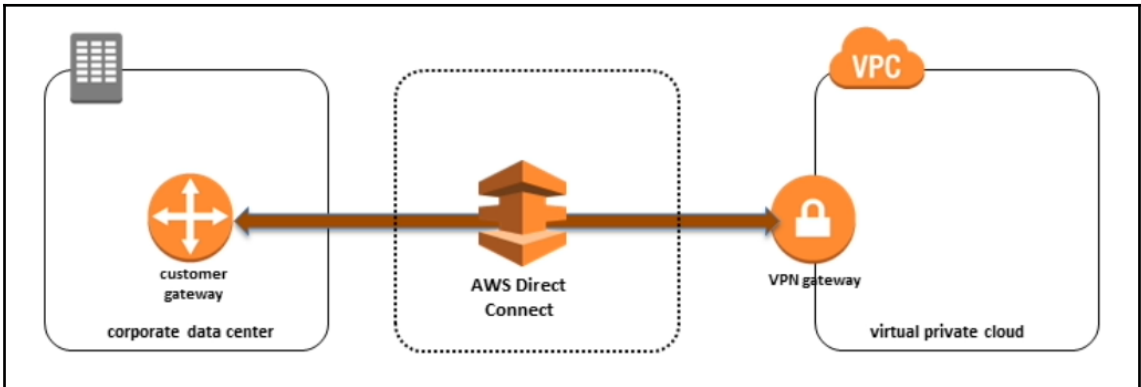
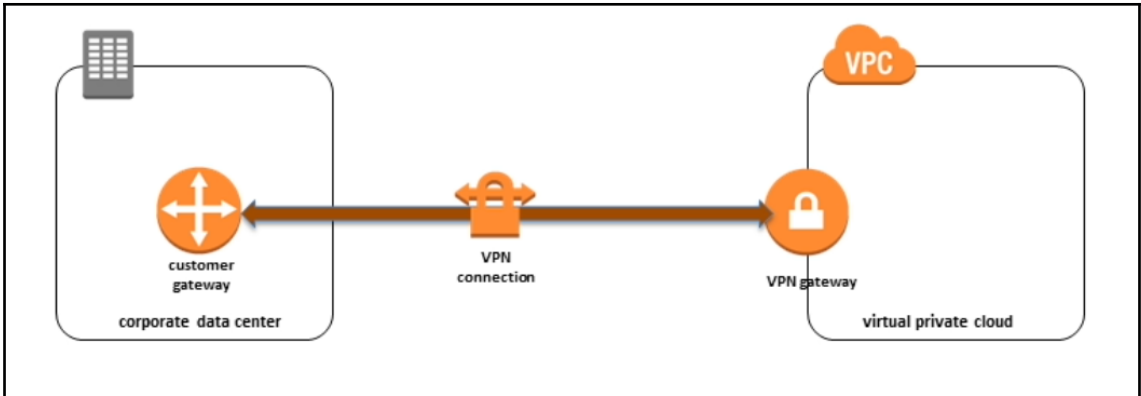
rtb-02c4c8f0ac6840b18 | PrivateRouteTable

Summary Routes Subnet Associations Route Propagation Tags

Cancel Save

Associate	Subnet	IPv4 CIDR	IPv6 CIDR	Current Route Table
<input type="checkbox"/>	subnet-00c64b67d84399200 Public1	192.168.0.0/24	-	Main
<input checked="" type="checkbox"/>	subnet-0b89925cd6dbace61 Private1	192.168.1.0/24	-	Main





Destination	Target
172.16.0.0/16	Local
10.0.0.0/16	PCX-1

Destination	Target
10.0.0.0/16	Local
172.16.0.0/16	PCX-1

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

Security

Network ACLs

Security Groups

<input type="checkbox"/>	Name	Network ACL ID	Associated With	Default	VPC
<input type="checkbox"/>		acl-0951a487729e4c...	2 Subnets	Yes	vpc-0fb97ec0046229caa TrainingDemo
<input type="checkbox"/>		acl-39c0ba41	6 Subnets	Yes	vpc-534b882b
<input type="checkbox"/>		acl-010144a495aa4c...	2 Subnets	Yes	vpc-080d822b0553327a2 ScratchVPC

aci-0951a487729e4c046

Summary **Inbound Rules** Outbound Rules Subnet Associations Tags

Allows inbound traffic. Because network ACLs are stateless, you must create inbound and outbound rules.

Edit

View: All rules ▾

Rule #	Type	Protocol	Port Range	Source	Allow / Deny
100	ALL Traffic	ALL	ALL	0.0.0.0/0	ALLOW
*	ALL Traffic	ALL	ALL	0.0.0.0/0	DENY

aci-0951a487729e4c046

Summary Inbound Rules Outbound Rules **Subnet Associations** Tags

Edit

Subnet	IPv4 CIDR	IPv6 CIDR
subnet-0e1d363df0c0ac07a Public1	10.0.0.0/24	-
subnet-04388fa895808cbe1 Private1	10.0.1.0/24	-

Create Network ACL ✕

A network ACL is an optional layer of security that acts as a firewall for controlling traffic in and out of a subnet.

Name tag ⓘ

VPC ⓘ

Cancel **Yes, Create**

aci-098a163c73454d822 | PrivateNACL

Summary **Inbound Rules** Outbound Rules Subnet Associations Tags

Allows inbound traffic. Because network ACLs are stateless, you must create inbound and outbound rules.

Cancel **Save**

View: All rules

Rule #	Type	Protocol	Port Range	Source	Allow / Deny	Remove
100	Oracle (1521)	TCP (6)	1521	192.168.1.0/24	ALLOW	

Add another rule

aci-098a163c73454d822 | PrivateNACL

Summary **Inbound Rules** Outbound Rules Subnet Associations Tags

Allows inbound traffic. Because network ACLs are stateless, you must create inbound and outbound rules.

Edit

View: All rules

Rule #	Type	Protocol	Port Range	Source	Allow / Deny
100	Oracle (1521)	TCP (6)	1521	192.168.1.0/24	ALLOW
*	ALL Traffic	ALL	ALL	0.0.0.0/0	DENY

aci-098a163c73454d822 | PrivateNACL

Summary Inbound Rules **Outbound Rules** Subnet Associations Tags

Allows outbound traffic. Because network ACLs are stateless, you must create inbound and outbound rules.

Cancel **Save**

View: All rules

Rule #	Type	Protocol	Port Range	Destination	Allow / Deny	Remove
100	Custom TCP Rule	TCP (6)	1024-65535	192.168.0.0/24	ALLOW	

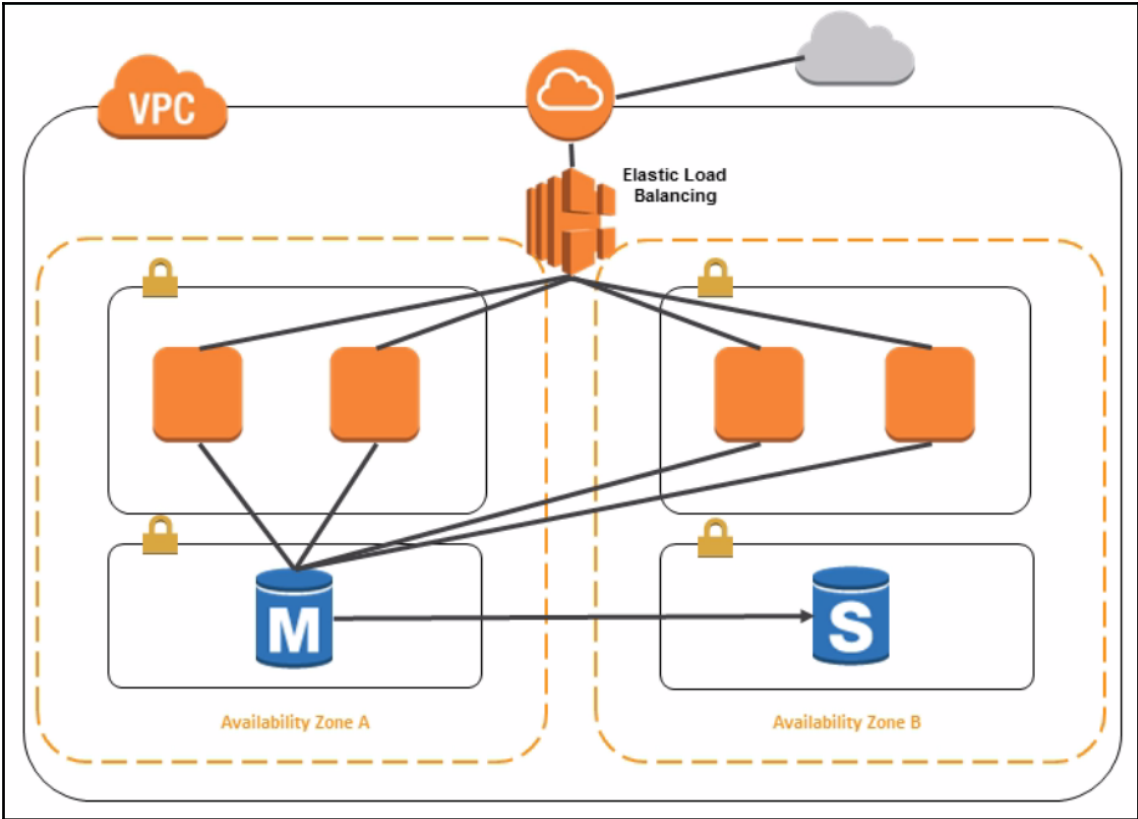
Add another rule

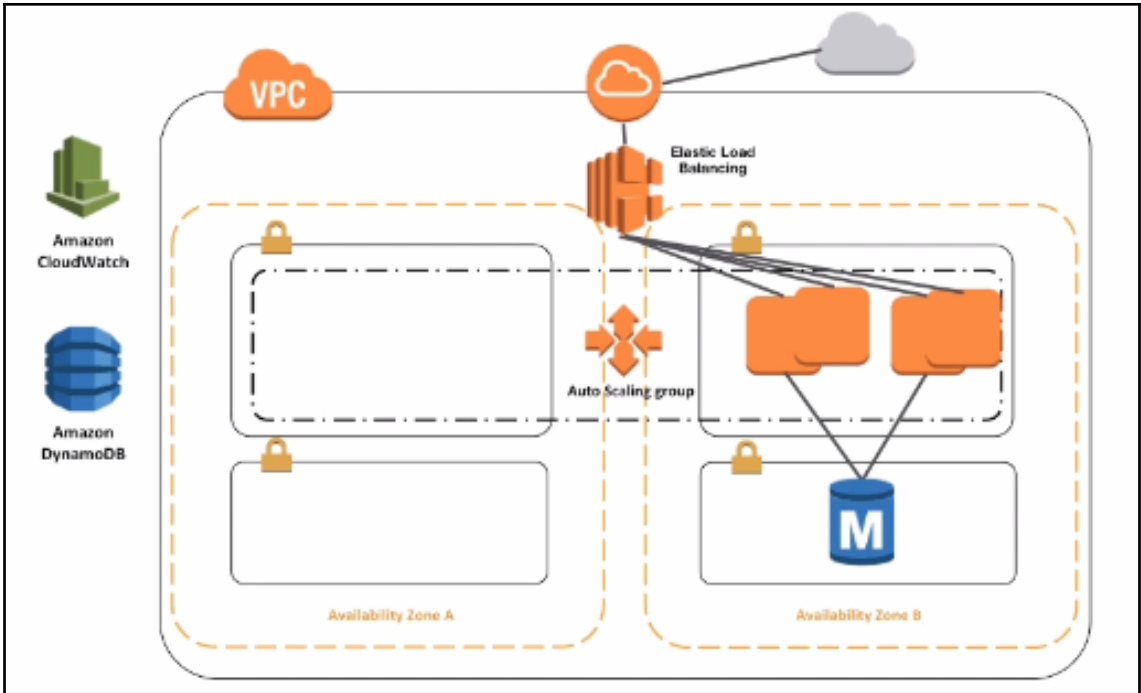
acl-098a163c73454d822 | PrivateNACL

Summary Inbound Rules Outbound Rules **Subnet Associations** Tags

Cancel Save

Associate	Subnet	IPv4 CIDR	IPv6 CIDR	Current Network ACL
<input type="checkbox"/>	subnet-00c64b67d84399200 Public1	192.168.0.0/24	-	acl-010144a495aa4c6e8
<input checked="" type="checkbox"/>	subnet-0b89925cd6dbace61 Private1	192.168.1.0/24	-	acl-010144a495aa4c6e8





aws Services Resource Groups cleanclouds Ohio Support

VPC Dashboard

Filter by VPC: Select a VPC

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Endpoint Services

NAT Gateways

Direct Connect

Create subnet Actions

Filter by tags and attributes or search by keyword

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 C
Public2	subnet-026f48454da16e44a	available	vpc-00999c48787d5e681 ...	192.168.2.0/24	251	-
Public1	subnet-02258387369d1217d	available	vpc-00999c48787d5e681 ...	192.168.0.0/24	250	-
Private1	subnet-0c85c728450812b17	available	vpc-00999c48787d5e681 ...	192.168.1.0/24	251	-
Private2	subnet-032788b49432e20f3	available	vpc-00999c48787d5e681 ...	192.168.3.0/24	251	-

Subnet: subnet-032788b49432e20f3

Description

Subnet ID	subnet-032788b49432e20f3	State	available
VPC	vpc-00999c48787d5e681 SearchVPC	IPv4 CIDR	192.168.3.0/24
Available IPv4 Addresses	251	IPv6 CIDR	-
Availability Zone	us-east-2b	Route Table	rtb-065ac6157dcf78fc
Network ACL	acl-080850d72e13cd7dd	Default subnet	No
Auto-assign public IPv4	No	Auto-assign IPv6 address	No


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Select load balancer type

Elastic Load Balancing supports three types of load balancers: Application Load Balancers, Network Load Balancers (new), and Classic Load Balancers. Choose the load balancer type that meets your needs. [Learn more about which load balancer is right for you](#)

Application Load Balancer




HTTP
HTTPS

Create

Choose an Application Load Balancer when you need a flexible feature set for your web applications with HTTP and HTTPS traffic. Operating at the request level, Application Load Balancers provide advanced routing and visibility features targeted at application architectures, including microservices and containers.

Network Load Balancer



TCP

Create

Choose a Network Load Balancer when you need ultra-high performance and static IP addresses for your application. Operating at the connection level, Network Load Balancers are capable of handling millions of requests per second while maintaining ultra-low latencies.

Classic Load Balancer

PREVIOUS GENERATION
for HTTP, HTTPS, and TCP

Create

[Learn more >](#)

Choose a Classic Load Balancer when you have an existing application running in the EC2-Classical network.

Cancel

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Step 1: Define Load Balancer

Basic Configuration

This wizard will walk you through setting up a new load balancer. Begin by giving your new load balancer a unique name so that you can identify it from other load balancers you might create. You will also need to configure ports and protocols for your load balancer. Traffic from your clients can be routed from any load balancer port to any port on your EC2 instances. By default, we've configured your load balancer with a standard web server on port 80.

Load Balancer name:

Create LB Inside:

Create an internal load balancer: (what's this?)

Enable advanced VPC configuration:

Listener Configuration:

Load Balancer Protocol	Load Balancer Port	Instance Protocol	Instance Port
HTTP	80	HTTP	80

Add

Select Subnets

You will need to select a Subnet for each Availability Zone where you wish traffic to be routed by your load balancer. If you have instances in only one Availability Zone, please select at least two Subnets in different Availability Zones to provide higher availability for your load balancer.

VPC vpc-080d822b0553327a2 (192.168.0.0/16) | ScratchVPC

Please select at least two Subnets in different Availability Zones to provide higher availability for your load balancer.

Cancel Next: Assign Security Groups

Step 2: Assign Security Groups

You have selected the option of having your Elastic Load Balancer inside of a VPC, which allows you to assign security groups to your load balancer. Please select the security groups to assign to this load balancer. This can be changed at any time.

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

Filter | VPC security groups

Security Group ID	Name	Description	Actions
sg-0c41bb45da5c7de0	default	default VPC security group	Copy to new

1. Define Load Balancer 2. Assign Security Groups 3. Configure Security Settings 4. **Configure Health Check** 5. Add EC2 Instances 6. Add Tags 7. Review

Step 4: Configure Health Check

Your load balancer will automatically perform health checks on your EC2 instances and only route traffic to instances that pass the health check. If an instance fails the health check, it is automatically removed from the load balancer. the health check to meet your specific needs.

Ping Protocol:

Ping Port:

Ping Path:

Advanced Details

Response Timeout: seconds

Interval: seconds

Unhealthy threshold:

Healthy threshold:

1. Define Load Balancer 2. Assign Security Groups 3. Configure Security Settings 4. Configure Health Check 5. Add EC2 Instances 6. Add Tags 7. **Review**

Step 7: Review

Define Load Balancer [Edit load balancer definition](#)

Load Balancer name: AutoscalingELB
 Scheme: internet-facing
 Port Configuration: 80 (HTTP) forwarding to 80 (HTTP)

Configure Health Check [Edit health check](#)

Ping Target: HTTP:80/index.html
 Timeout: 5 seconds
 Interval: 30 seconds
 Unhealthy threshold: 2
 Healthy threshold: 10

Add EC2 Instances [Edit instances](#)

Cross-Zone Load Balancing: Enabled
 Connection Draining: Enabled, 300 seconds
 Instances:


VPC Information [Edit subnets](#)

VPC: vpc-080d822b0553327a2 (ScratchVPC)
 Subnets: subnet-0b89925cd6dbace61 (Private1)

Security groups [Edit security groups](#)

[Cancel](#) [Previous](#) [Create](#)

Load Balancer Creation Status

 **Successfully created load balancer**

Load balancer [AutoscalingELB](#) was successfully created.

Note: It may take a few minutes for your instances to become active in the new load balancer.

[Close](#)

Create Security Group X

Security group name

Description

VPC

Security group rules:

Inbound | Outbound

Type	Protocol	Port Range	Source	Description
HTTP	TCP	80	Custom 0.0.0.0/0, :::0	sg-c615e9bb

Create Auto Scaling Group Cancel and Exit

Complete this wizard to create your Auto Scaling group. First, choose either a launch configuration or a launch template to specify the parameters that your Auto Scaling group uses to launch instances.

Launch Configuration

You can continue to use your launch configurations if they support the Amazon EC2 features you need. [Learn more](#)

Launch Template New

Launch templates can be updated and versioned, and include support for the latest features of Amazon EC2. [Learn more](#)

[Create new launch template](#)

Create a new launch configuration

Use an existing launch configuration

Filter launch configurations... |< < 1 to 1 of 1 Launch Configurations > >|

Name	AMI ID	Instance Type	Spot Price	Security Groups
test1	ami-1853ac65	t2.micro		sg-67570011

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

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace, or you can select one of your own AMIs.

Q ami-030e6d48f715d9498

Quick Start (0) 1 to 1 of 1 AMIs

My AMIs (1)

VPC Image - ami-030e6d48f715d9498

Image for Instance

Root device type: ets Virtualization type: hvm Owner: 019859648260 ENA Enabled: Yes

Select 64-bit

AWS Marketplace (3107)

Community AMIs (0)

Ownership

Owned by me

Shared with me

Architecture

32-bit

64-bit

Root device type

The following results for "ami-030e6d48f715d9498" were found in other catalogs:

3107 results in AWS Marketplace

AWS Marketplace provides partnered Software that is pre-configured to run on AWS

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

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous **Review and Launch** Next: Configure Instance Details

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

Number of Instances [Launch into Auto Scaling Group](#)

Purchasing option Request Spot Instances

Network [Create new VPC](#)

Subnet [Create new subnet](#)

Auto-assign Public IP

Placement group Add instance to placement group.

IAM role [Create new IAM role](#)

Shutdown behavior

Enable termination protection Protect against accidental termination

Monitoring Enable CloudWatch detailed monitoring
[Additional charges apply.](#)

Tenancy
[Additional charges will apply for dedicated tenancy.](#)

T2/T3 Unlimited Enable

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

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 ID	Name	Description	Actions
sg-67570011	AutoScaling-Security-Group-1	AutoScaling-Security-Group-1 (2018-03-22 23:47:21.944+05:30)	Copy to clipboard
sg-a5aafed3	AWS-OpsWorks-AWS-Flow-Ruby-Server	AWS Flow Ruby server - do not change or delete	Copy to clipboard
sg-0bde8a7d	AWS-OpsWorks-Blank-Server	AWS OpsWorks blank server - do not change or delete	Copy to clipboard
sg-c0dd89b6	AWS-OpsWorks-Custom-Server	AWS OpsWorks custom server - do not change or delete	Copy to clipboard
sg-bed387c8	AWS-OpsWorks-DB-Master-Server	AWS OpsWorks database master server - do not change or delete	Copy to clipboard
sg-19d3876f	AWS-OpsWorks-Default-Server	AWS OpsWorks Default server - do not change or delete	Copy to clipboard
sg-7ac7930c	AWS-OpsWorks-ECS-Cluster	AWS OpsWorks ECS cluster - do not change or delete	Copy to clipboard

Inbound rules for sg-67570011 (Selected security groups: sg-67570011)

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	

[Cancel](#) [Previous](#) [Review and Launch](#)

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

Step 7: Review Instance Launch

AMI Details [Edit AMI](#)

VPC Image - ami-030e6d48f715d9498
Image for Instance
Root Device Type: ebs Virtualization type: hvm

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Security Groups [Edit security groups](#)

Security Group ID	Name	Description
sg-67570011	AutoScaling-Security-Group-1	AutoScaling-Security-Group-1 (2018-03-22 23:47:21.944+05:30)

All selected security groups inbound rules

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	

[Cancel](#) [Previous](#) [Launch](#)

Select an existing key pair or create a new key pair

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.

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](#).

Choose an existing key pair

Select a key pair

DemoKeyPair

I acknowledge that I have access to the selected private key file (DemoKeyPair.pem), and that without this file, I won't be able to log into my instance.

[Cancel](#) [Launch Instances](#)

1. Configure Auto Scaling group details 2. Configure scaling policies 3. Configure Notifications 4. Configure Tags 5. Review

Create Auto Scaling Group Cancel and Exit

Launch Configuration ⓘ test1

Group name ⓘ AutoscaleDemoGroup

Group size ⓘ Start with Instances

Network ⓘ vpc-080d822b0553327a2 (192.168.0.0/16) | ScratchV... ⊞ Create new VPC

Subnet ⓘ

- subnet-0b89925cd6dbace61(192.168.1.0/24) | Private1 | us-east-1a ✕
- subnet-00c64b67d84399200(192.168.0.0/24) | Public1 | us-east-1a ✕

[Create new subnet](#)

⚠ No public IP addresses will be assigned

None of the instances in this Auto Scaling group will be assigned a public IP address because you have not chosen to launch in your default VPC and subnet.

You can ensure a public IP address is assigned to instances launched with this configuration by selecting only default subnets of your default VPC.

[Learn more](#) about IP addressing in an Amazon VPC.

[Cancel](#) Next: Configure scaling policies

▼ Advanced Details

Load Balancing ⓘ Receive traffic from one or more load balancers [Learn about Elastic Load Balancing](#)

Classic Load Balancers ⓘ AutoscalingELB ✕

Target Groups ⓘ

Health Check Type ⓘ ELB EC2

Health Check Grace Period ⓘ seconds

Monitoring ⓘ Amazon EC2 Detailed Monitoring metrics, which are provided at 1 minute frequency, are not enabled for the launch configuration test1. Instances launched from it will use Basic Monitoring metrics, provided at 5 minute frequency.
[Learn more](#)

Instance Protection ⓘ

Service-Linked Role ⓘ AWSServiceRoleForAutoScaling ⊞ View Role in IAM

1. Configure Auto Scaling group details 2. **Configure scaling policies** 3. Configure Notifications 4. Configure Tags 5. Review

Create Auto Scaling Group

You can optionally add scaling policies if you want to adjust the size (number of instances) of your group automatically. A scaling policy is a set of instructions for making such adjustments in response to an Amazon CloudWatch alarm that you assign to it. In each policy, you can choose to add or remove a specific number of instances or a percentage of the existing group size, or you can set the group to an exact size. When the alarm triggers, it will execute the policy and adjust the size of your group accordingly. [Learn more](#) about scaling policies.

Keep this group at its initial size
 Use scaling policies to adjust the capacity of this group

Scale between and instances. These will be the minimum and maximum size of your group.

Increase Group Size ✕

Name:

Execute policy when: [Edit](#) [Remove](#)
 breaches the alarm threshold: CPUUtilization <= 20 for 3 consecutive periods of 300 seconds for the metric dimensions AutoScalingGroupName = AutoscaleDemoGroup

Take the action:

And then wait: seconds before allowing another scaling activity

[Create a scaling policy with steps](#) ⓘ

Decrease Group Size ✕

[Cancel](#) [Previous](#) [Review](#) [Next: Configure Notifications](#)

Create Alarm

You can use CloudWatch alarms to be notified automatically whenever metric data reaches a level you define. To edit an alarm, first choose whom to notify and then define when the notification should be sent.

Send a notification to:

Whenever: of

Is: Percent

For at least: consecutive period(s) of

Name of alarm:

CPU Utilization Percent

AutoscaleDemoGroup

[Cancel](#) [Create Alarm](#)

Create Alarm X

You can use CloudWatch alarms to be notified automatically whenever metric data reaches a level you define.
 To edit an alarm, first choose whom to notify and then define when the notification should be sent.

Send a notification to:

Whenever: of

Is: Percent

For at least: consecutive period(s) of

Name of alarm:

CPU Utilization Percent

AutoscaleDemoGroup

[Cancel](#) [Create Alarm](#)

Increase Group Size

Name:

Execute policy when: [Edit](#) [Remove](#)
 breaches the alarm threshold: CPUUtilization <= 20 for 3 consecutive periods of 300 seconds
 for the metric dimensions AutoScalingGroupName = AutoscaleDemoGroup

Take the action:

And then wait: seconds before allowing another scaling activity

[Create a scaling policy with steps](#) ⓘ

Decrease Group Size

Name:

Execute policy when: [Edit](#) [Remove](#)
 breaches the alarm threshold: CPUUtilization <= 20 for 3 consecutive periods of 300 seconds
 for the metric dimensions AutoScalingGroupName = AutoscaleDemoGroup

Take the action:

And then wait: seconds before allowing another scaling activity

[Create a scaling policy with steps](#) ⓘ

Load balancer: AutoscalingELB

Description

Instances

Health Check

Listeners

Monitoring

Tags

Connection Draining: Enabled, 300 seconds (Edit)

Edit Instances

Instance ID	Name	Availability Zone	Status	Actions
i-f524146c		us-east-1a	InService ⓘ	Remove from Load Balancer
i-fbc1b668		us-east-1b	InService ⓘ	Remove from Load Balancer

Edit Availability Zones