Create VPC Info

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances. Mouse over a resource to highlight the related resources.

VPC settings

Resources to create Info

Create only the VPC resource or the VPC and other networking resources.

- ○ VPC only
- ◉ VPC and more

Name tag auto-generation Info

Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.

☑ Auto-generate

aws-prod

IPv4 CIDR block Info

Determine the starting IP and the size of your VPC using CIDR notation.

10.0.0.0/16 65,536 IPs

CIDR block size must be between /16 and /28.

IPv6 CIDR block Info

- ◉ No IPv6 CIDR block
- ○ Amazon-provided IPv6 CIDR block

Tenancy Info

Preview

Default

Number of Availability Zones (AZs) Info

Choose the number of AZs in which to provision subnets. We recommend at least two AZs for high availability.

1 | 2 | 3

▶ Customize AZs

Number of public subnets Info

The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.

0 | 2

Number of private subnets Info

The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.

0 | 2 | 4

▶ Customize subnets CIDR blocks

The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.

0 | 2 | 4

▶ **Customize subnets CIDR blocks**

NAT gateways ($) Info

Choose the number of Availability Zones (AZs) in which to create NAT gateways. Note that there is a charge for each NAT gateway

None | In 1 AZ | 1 per AZ

VPC endpoints Info

Endpoints can help reduce NAT gateway charges and improve security by accessing S3 directly from the VPC. By default, full access policy is used. You can customize this policy at any time.

None | S3 Gateway

DNS options Info

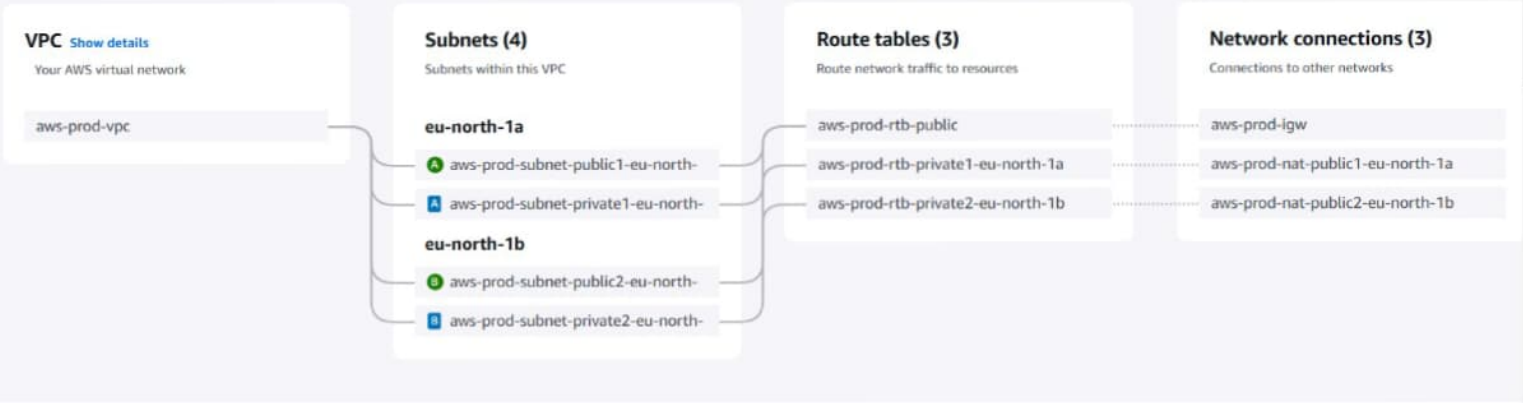
- [x] Enable DNS hostnames
- [x] Enable DNS resolution

▶ **Additional tags**

Cancel | Preview code | Create VPC

as Amazon EC2 instances. Mouse over a resource to highlight the related resources.

Preview



Success

Details

- Create VPC: vpc-091270adb9330a0e0
- Enable DNS hostnames
- Enable DNS resolution
- Verifying VPC creation: vpc-091270adb9330a0e0
- Create subnet: subnet-094eaad89cf3ce008
- Create subnet: subnet-0d773557e3752be4c
- Create subnet: subnet-0e9f33c22fa6948b4
- Create subnet: subnet-0fb9619dd1c441c3d
- Create internet gateway: igw-0aac92a30adcef5fa
- Attach internet gateway to the VPC
- Create route table: rtb-0b5b25d9c1394eb2b
- Create route
- Associate route table
- Associate route table
- Allocate elastic IP: eipalloc-02af5196e57c3d1dd
- Allocate elastic IP: eipalloc-0366e31fdc5f07b54
- Create NAT gateway: nat-0d77c51b4f6aea364
- Create NAT gateway: nat-0f9260ecfcb25f226
- Wait for NAT Gateways to activate
- Create route table: rtb-0d5d39711563f0a5e
- Create route
- Associate route table
- Create route table: rtb-03a59d4dfd90085c8
- Create route

VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

NAT gateways

Peering connections

Security

Network ACLs

Security groups

PrivateLink and Lattice

vpc-091270adb9330a0e0 / aws-prod-vpc

Actions

Details Info

VPC ID vpc-091270adb9330a0e0	**State** Available	**Block Public Access** Off	**DNS hostnames** Enabled
DNS resolution Enabled	**Tenancy** default	**DHCP option set** dopt-0b6da47d772dd5be8	**Main route table** rtb-00e68d29de9b79c67
Main network ACL acl-0a4d207abce31fd11	**Default VPC** No	**IPv4 CIDR** 10.0.0.0/16	**IPv6 pool** –
IPv6 CIDR (Network border group) –	**Network Address Usage metrics** Disabled	**Route 53 Resolver DNS Firewall rule groups** –	**Owner ID** 442042520713

Resource map | CIDRs | Flow logs | Tags | Integrations

Resource map Info

VPC Show details

Your AWS virtual network

aws-prod-vpc

Subnets (4)

Subnets within this VPC

eu-north-1a

Route tables (4)

Route network traffic to resources

rtb-00e68d29de9b79c67

Netv

Connec

aws-p

Create launch template

Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.

Launch template name and description

Launch template name - *required*

aws-prod

Must be unique to this account. Max 128 chars. No spaces or special characters like '&', '*', '@'.

Template version description

app deploy in aws private subnet

Max 255 chars

Auto Scaling guidance | Info

Select this if you intend to use this template with EC2 Auto Scaling

☑ Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

▸ **Template tags**

▸ **Source template**

Launch template contents

Specify the details of your launch template below. Leaving a field blank will result in the field not being included in the launch template.

▸ **Application and OS Images (Amazon Machine Image) - required**

▾ Summary

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...read more
ami-09a9858973b288bdd

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

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

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel | Create launch template

Amazon Linux | macOS | Ubuntu | Windows | Red Hat | SUSE Linux | Debian

Browse more AMIs
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type — Free tier eligible
ami-09a9858973b288bdd (64-bit (x86)) / ami-001e33773aec8d45f (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).

Canonical, Ubuntu, 24.04, amd64 noble image

Architecture	AMI ID	Username	
64-bit (x86)	ami-09a9858973b288bdd	ubuntu	Verified provider

Instance type Info | Get advice

Advanced

Instance type

Summary

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...read more
ami-09a9858973b288bdd

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New security group

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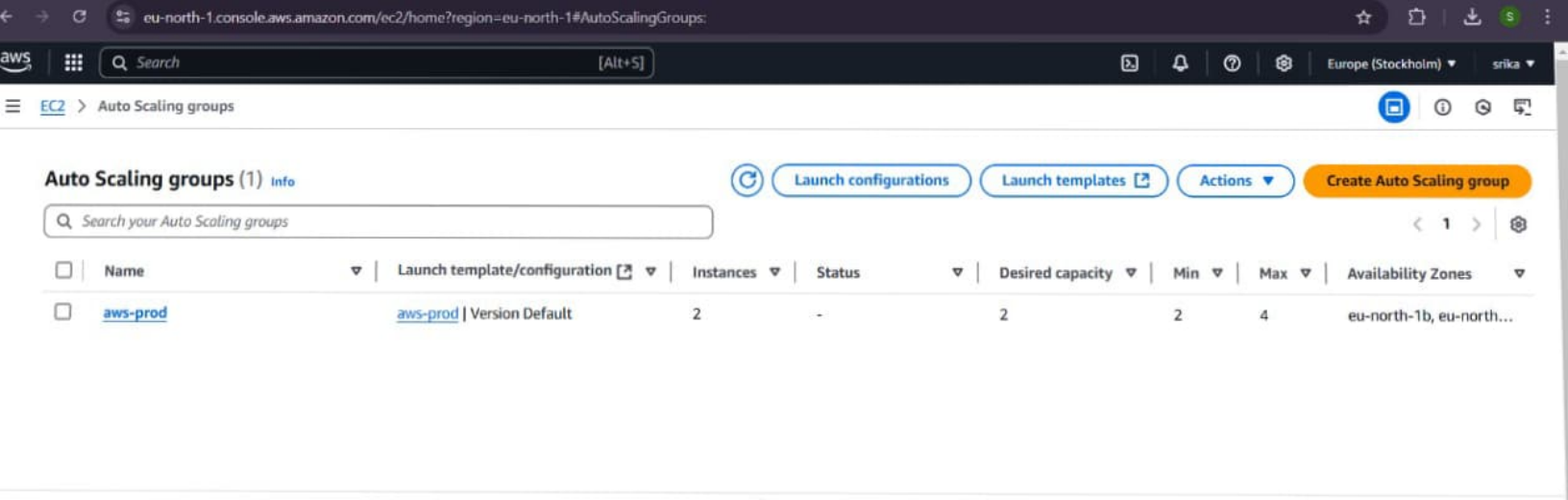
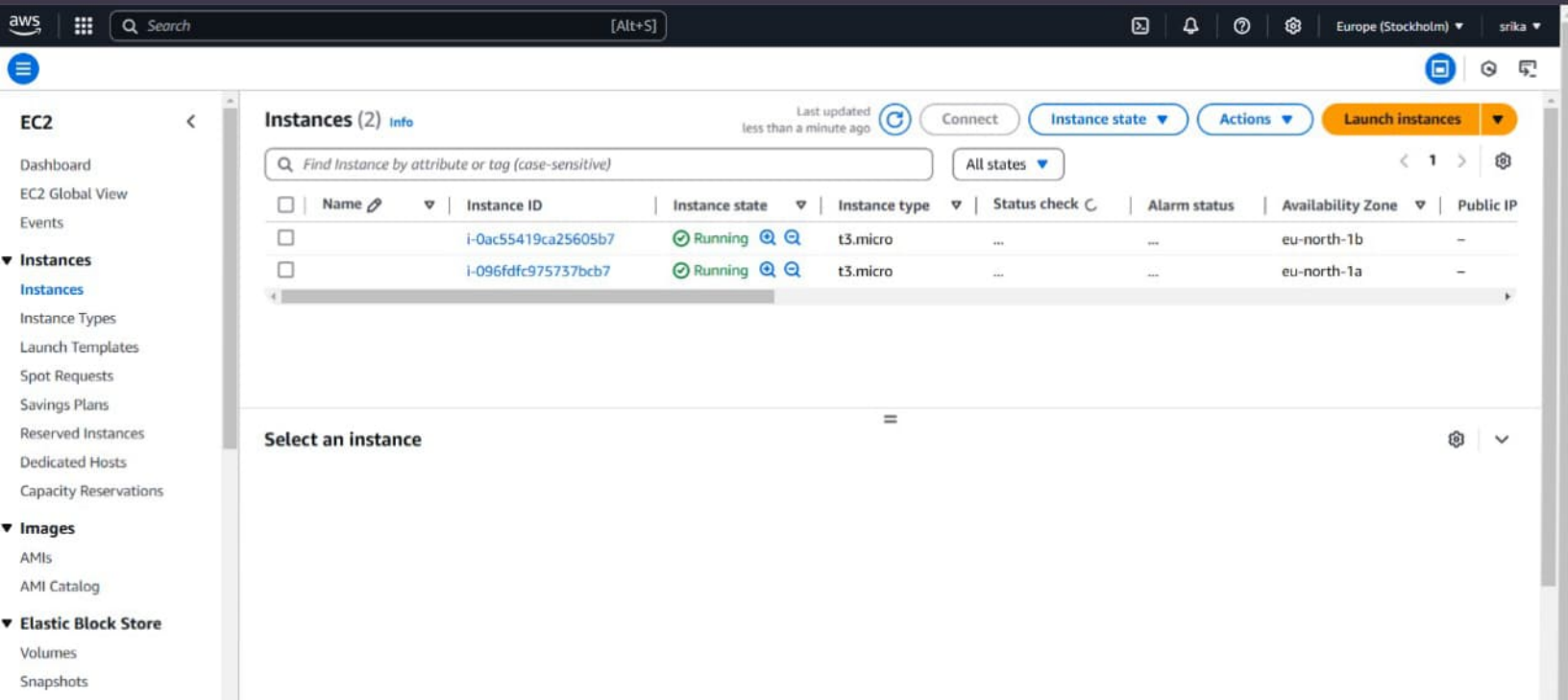
Cancel | Create launch template


eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#AutoScalingGroups:
aws
Search
[Alt+S]
Europe (Stockholm)
srika
EC2 > Auto Scaling groups
Auto Scaling groups (1) Info
Launch configurations
Launch templates
Actions
Create Auto Scaling group
Search your Auto Scaling groups
1
Name
Launch template/configuration
Instances
Status
Desired capacity
Min
Max
Availability Zones
aws-prod
aws-prod | Version Default
2
-
2
2
4
eu-north-1b, eu-north...


aws
Search
[Alt+S]
Europe (Stockholm)
srika
EC2
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Instances (2) Info
Last updated less than a minute ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IP
i-0ac55419ca25605b7
Running
t3.micro
eu-north-1b
i-096fdfc975737bcb7
Running
t3.micro
eu-north-1a
Select an instance

It seeems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices

Do not show me this message again | Take a walkthrough

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name

bastion-host

Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Recents | Quick Start

Amazon Linux | macOS | Ubuntu | Windows | Red Hat | SUSE Linux | Debian

Browse more AMIs

Summary

Number of instances Info

1

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...read more
ami-09a9858973b288bdd

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t3.micro

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New security group

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

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AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Target Groups
Trust Stores
Auto Scaling
Auto Scaling Groups
Settings

Load balancers (1)

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

Actions | Create load balancer

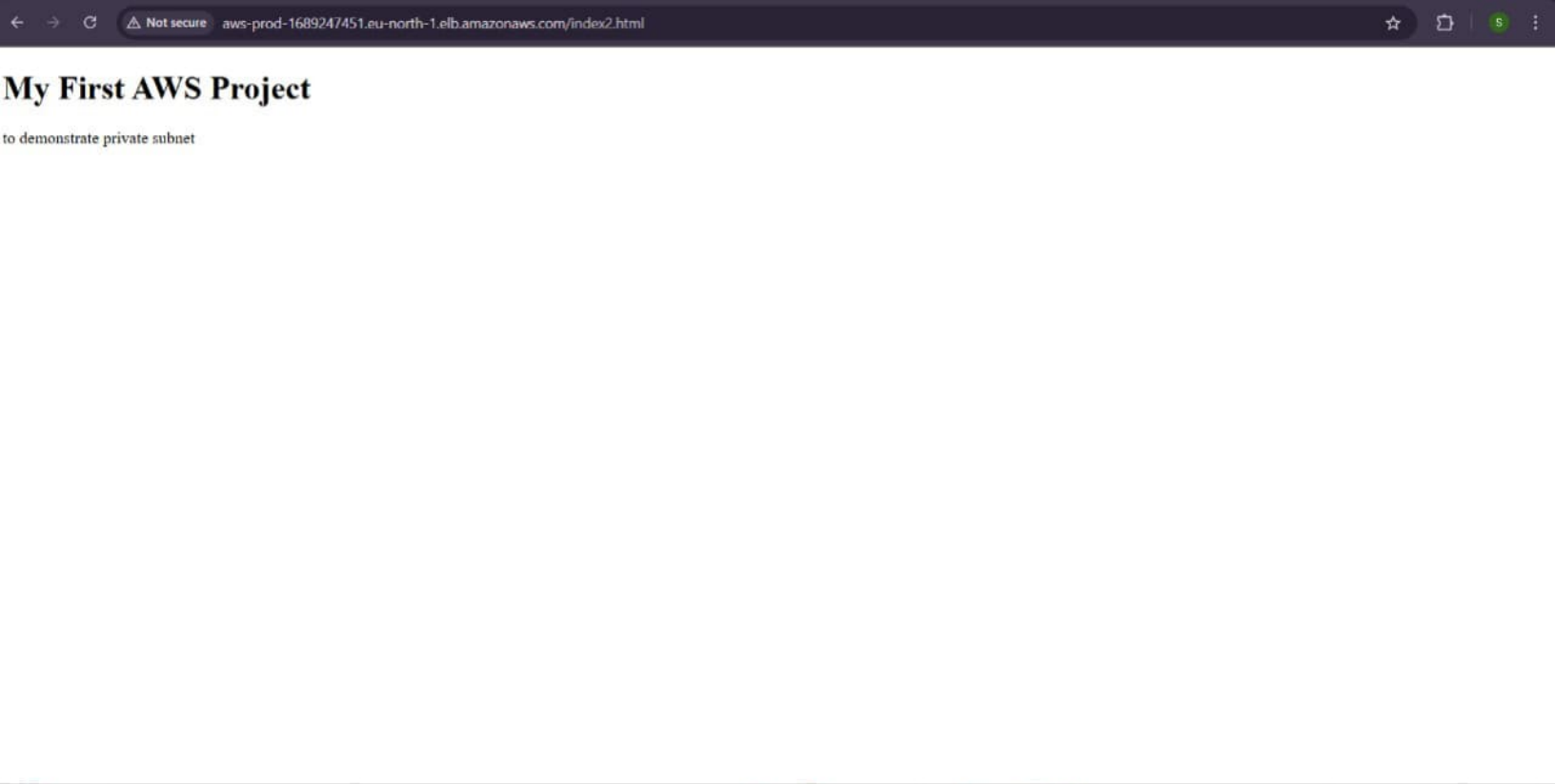
Filter load balancers

1

Name	DNS name	State	VPC ID	Availability Zones	Type	Date created
aws-prod	aws-prod-1689247451.eu-...	Active	vpc-003caac48f1b6378c	2 Availability Zones	application	February 16, 2

0 load balancers selected

Select a load balancer above.


Not secure
aws-prod-1689247451.eu-north-1.elb.amazonaws.com/index2.html
My First AWS Project
to demonstrate private subnet