

1. Utworzenie Cognito

Define your application

Choose an application type and give it a name.

Application type | [Info](#)

Choose the type of application that you're developing. Your choice determines the example application code that Cognito will display.



Traditional web application

An application hosted on a webserver. Uses redirects and separate pages to display information. Examples are Java, Python, nodeJS.



Single-page application (SPA)

Modifies the current web page based on user interaction. Examples are JavaScript, Angular, React.



Mobile app

An app built with a mobile SDK. Examples are Android, iOS.



Machine-to-machine application

Platform-independent server-to-server communications without user interaction. Authorizes API access with OAuth 2.0 scopes.

Name your application | [Info](#)

My web app - jamniczek

Names are limited to 128 characters or fewer. Names may only contain alphanumeric characters, spaces, and the following special characters: + = , . @ -

Configure options

You must make a few initial choices about the user pool that supports your application. To change these settings later, you must create a new user pool.

Options for sign-in identifiers | [Info](#)

Choose sign-in attributes. Usernames can be an email address, phone number, or a user-selected username. When you select only email and phone, users must select either email or phone as their username type. When username is an option, users can sign in with any options you select if they have provided a value for that option.



Email



Phone number



Username

[Want to set up social, SAML, or OIDC sign-in?](#)

Required attributes for sign-up | [Info](#)

Choose any attributes that you want to require users to provide. With username alone, you must set email address or phone number as a required attribute.

Select Attributes



email



User's preferred email address.

Options for sign-in identifiers and required attributes can't be changed after the app has been created.

Add a return URL - optional

Choose a return URL. Cognito redirects to this URL after successful sign-in with the managed login pages on your user pool domain. Your application can then process the resulting tokens.

Return URL | [Info](#)

https://

The length of the return URL must be between 1 and 1024 characters. Valid characters are letters, marks, numbers, symbols, and punctuations. Amazon Cognito requires HTTPS over HTTP except for `http://localhost` for testing purposes only. App return URLs such as `myapp://example` are also supported. Must not contain a fragment.

[Cancel](#)

[Create](#)

Edit verification message [Info](#)

Amazon Cognito sends MFA codes with Amazon SES for email messages and Amazon SNS for SMS messages. Amazon SES and Amazon SNS charge for message delivery independently of user pool pricing. Recipients might also be charged message and data rates.

Email

Verification type

Choose whether Cognito sends you user either a code they must enter, or a link they must click, to verify their contact attribute.

- ☐ Code
- ☒ Link

Email subject

[Reset to default](#)

Your verification link

Email message

[Reset to default](#)

Please click the link below to verify your email address. {##Verify Email##}

You can customize this message with HTML. "Verify email" is the text that will be displayed over the clickable link in the message. You can customize the "Verify email" string, but the variable - some text enclosed by "{##" and "##}" - must be kept in the message.

[Cancel](#)

[Save changes](#)

2. Utworzenie RDS









Create database [Info](#)

Choose a database creation method

- ☒ **Standard create**
You set all of the configuration options, including ones for availability, security, backups, and maintenance.
- ☐ **Easy create**
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type [Info](#)

- ☐ Aurora (MySQL Compatible)

- ☐ Aurora (PostgreSQL Compatible)

- ☐ MySQL

- ☒ PostgreSQL

- ☐ MariaDB

- ☐ Oracle

- ☐ Microsoft SQL Server

- ☐ IBM Db2


Engine version [Info](#)

View the engine versions that support the following database features.

▼ Hide filters

- ☒ Show only versions that support the Multi-AZ DB cluster [Info](#)
Create a Multi-AZ DB cluster with one primary DB instance and two readable standby DB instances. Multi-AZ DB clusters provide up to 2x faster transaction commit latency and automatic failover in typically under 35 seconds.

Engine version

PostgreSQL 14.14-R1

Engine version

PostgreSQL 14.14-R1



☐ **Enable RDS Extended Support** [Info](#)

Amazon RDS Extended Support is a [paid offering](#). By selecting this option, you consent to being charged for this offering if you are running your database major version past the RDS end of standard support date for that version. Check the end of standard support date for your major version in the [RDS for PostgreSQL documentation](#).

Templates

Choose a sample template to meet your use case.

☒ **Production**

Use defaults for high availability and fast, consistent performance.

☐ **Dev/Test**

This instance is intended for development use outside of a production environment.

☐ **Free tier**

Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS. [Info](#)

Availability and durability

Deployment options [Info](#)

The deployment options below are limited to those supported by the engine you selected above.

☐ **Multi-AZ DB Cluster**

Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.

☐ **Multi-AZ DB instance**

Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.

☒ **Single DB instance**

Creates a single DB instance with no standby DB instances.

Settings

DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

chmurki-rds-2

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ Credentials Settings

Master username [Info](#)

Type a login ID for the master user of your DB instance.

postgres

1 to 16 alphanumeric characters. The first character must be a letter.

Credentials management

You can use AWS Secrets Manager or manage your master user credentials.

☐ **Managed in AWS Secrets Manager - most secure**

RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.

☒ **Self managed**

Create your own password or have RDS create a password that you manage.

☐ **Auto generate password**

Amazon RDS can generate a password for you, or you can specify your own password.

Master password [Info](#)

Password strength Weak

Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ' " @

Confirm master password [Info](#)

Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

▼ Hide filters

- ☒ Include previous generation classes
- ☐ Standard classes (includes m classes)
- ☐ Memory optimized classes (includes r and x classes)
- ☒ Burstable classes (includes t classes)

db.t3.micro
2 vCPUs 1 GiB RAM Network: Up to 2085 Mbps

Storage

Storage type [Info](#)

Provisioned IOPS SSD (io2) storage volumes are now available.

General Purpose SSD (gp2)
Baseline performance determined by volume size

Allocated storage [Info](#)

6

GiB

Allocated storage value must be 20 GiB to 6144 GiB

[i](#) Provisioning less than 100 GiB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance. [Learn more](#)

[i](#) After you modify the storage for a DB instance, the status of the DB instance will be in storage-optimization. Your instance will remain available as the storage-optimization operation completes. [Learn more](#)

► Storage autoscaling

Connectivity [Info](#)



Compute resource

Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.



Don't connect to an EC2 compute resource

Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.



Connect to an EC2 compute resource

Set up a connection to an EC2 compute resource for this database.

Network type [Info](#)

To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.



IPv4

Your resources can communicate only over the IPv4 addressing protocol.



Dual-stack mode

Your resources can communicate over IPv4, IPv6, or both.

Virtual private cloud (VPC) [Info](#)

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-0ab16c0dfd6b065d3)

6 Subnets, 6 Availability Zones



Only VPCs with a corresponding DB subnet group are listed.



After a database is created, you can't change its VPC.

DB subnet group [Info](#)

Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

default

6 Subnets, 6 Availability Zones



Public access [Info](#)



Yes

RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.



No

RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

VPC security group (firewall) [Info](#)

Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.



Choose existing

Choose existing VPC security groups



Create new

Create new VPC security group

New VPC security group name

chmurki_rds_sg

Availability Zone [Info](#)

No preference



RDS Proxy

RDS Proxy is a fully managed, highly available database proxy that improves application scalability, resiliency, and security.



Create an RDS Proxy [Info](#)

RDS automatically creates an IAM role and a Secrets Manager secret for the proxy. RDS Proxy has additional costs. For more information, see [Amazon RDS Proxy pricing](#).

Certificate authority - optional [Info](#)

Using a server certificate provides an extra layer of security by validating that the connection is being made to an Amazon database. It does so by checking the server certificate that is automatically installed on all databases that you provision.

rds-ca-rsa2048-g1 (default)
Expiry: May 26, 2061

If you don't select a certificate authority, RDS chooses one for you.

► Additional configuration

Tags - optional

A tag consists of a case-sensitive key-value pair.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Database authentication

Database authentication options [Info](#)

- ☒ Password authentication
Authenticates using database passwords.
- ☐ Password and IAM database authentication
Authenticates using the database password and user credentials through AWS IAM users and roles.
- ☐ Password and Kerberos authentication
Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

Monitoring

☒ Enable Performance Insights

Retention period for Performance Insights [Info](#)

7 days (free tier)

AWS KMS key [Info](#)

(default) aws/rds

Account

255603266792

KMS key ID

633a6be8-6902-4834-bba9-deecbbe57396

3. Utworzenie VPC

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

IPv4 CIDR block [Info](#)

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

10.0.0.0/1665 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](#)

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.

123

► 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.

01

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.

012

► Customize subnets CIDR blocks

Preview

VPC [Show details](#)

Your AWS virtual network

chmurki-2-vpc

Subnets (1)

Subnets within this VPC

us-east-1a

chmurki-2-subnet

Route tables (1)

Route network traffic to resources

chmurki-2-route

Network connections (2)

Connections to other networks

chmurki-2-gateway

chmurki-2-endpoint

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
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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](#)

- ☒ Enable DNS hostnames
- ☒ Enable DNS resolution

► Additional tags

Cancel

 Preview code

Create VPC

4. Utworzenie EC2 dla Backend oraz Frontend, które różnią się jedynie userdata

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

chmurki_ec2_back_2

[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

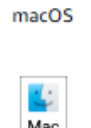
Recents

My AMIs

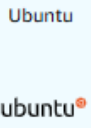
Quick Start




Amazon Linux



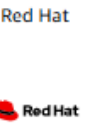
macOS




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
ami-0866a3c8686eaebeba (64-bit (x86)) / ami-0325498274077fac5 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

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

64-bit (x86)

AMI ID

ami-0866a3c8686eaebeba

Username

ubuntu



Verified provider

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64...[read more](#)
ami-0866a3c8686eaebeba

Virtual server type (instance type)



t2.micro

Firewall (security group)

chmurki-2-vpc-2-2

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](#)

[Launch instance](#)

 [Preview code](#)

▼ Instance type [Info](#) | [Get advice](#)

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand Ubuntu Pro base pricing: 0.0134 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour On-Demand RHEL base pricing: 0.026 USD per Hour

On-Demand Linux base pricing: 0.0116 USD per Hour

Free tier eligible

☐ All generations

[Compare instance types](#)

Additional costs apply for AMIs with pre-installed software

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

vockey

[Create new key pair](#)

▼ Network settings [Info](#)

VPC - *required* | [Info](#)

vpc-09a426af4c7ccf551 (chmurki-2-vpc)
10.0.0.0/16

[Create new VPC](#)

Subnet | [Info](#)

subnet-0ce2530bbc23c3ac9 chmurki-2-subnet
VPC: vpc-09a426af4c7ccf551 Owner: 255603266792 Availability Zone: us-east-1a
Zone type: Availability Zone IP addresses available: 4091 CIDR: 10.0.0.0/20

[Create new subnet](#)

Auto-assign public IP | [Info](#)

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) | [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☐ Create security group

☒ Select existing security group

Common security groups | [Info](#)

Select security groups

chmurki-2-vpc-2-2 sg-0d9cc03313596a306 X
VPC: vpc-09a426af4c7ccf551

[Compare security group rules](#)

Security groups that you add or remove here will be added to or removed from all your network interfaces.

► **Advanced network configuration**

▼ Summary

Number of instances | [Info](#)

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64...[read more](#)
ami-0866a3c8686eaebea

Virtual server type (instance type)

t2.micro

Firewall (security group)

chmurki-2-vpc-2-2

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 I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#)

[Launch instance](#)

[Preview code](#)