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Wstęp do informatyki [04-S3INK01-P00315]  
Semestr zimowy 2024/2025  
Ćwiczenia w sali komputerowej, grupa nr 1  
Moodle ID: 481289\_1

#### 1.4 Zadanie domowe

**Załącz konto AWS (1 dolar na identyfikację, zwracają po tygodniu). Uruchom i połącz się z maszyną wirtualną za pomocą aplikacji przeglądarkowej.**

Aby założyć konto na AWS udajemy się pod stronę [https://signin.aws.amazon.com/signup?request\\_type=register](https://signin.aws.amazon.com/signup?request_type=register).



**Explore Free Tier products with a new AWS account.**

To learn more, visit [aws.amazon.com/free](https://aws.amazon.com/free).



## Sign up for AWS

Root user email address

Used for account recovery and some administrative functions

AWS account name

Choose a name for your account. You can change this name in your account settings after you sign up.

**Verify email address**

OR

**Sign in to an existing AWS account**

Po wpisaniu wymaganych danych, otrzymujemy kod weryfikacyjny i wprowadzamy w wyznaczone miejsce.



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## Sign up for AWS

### Confirm you are you

Making sure you are secure -- it's what we do.

We sent an email with a verification code to [sebdol@st.amu.edu.pl](mailto:sebdol@st.amu.edu.pl). (not you?)

Enter it below to confirm your email.

Verification code

Verify

Resend Code 46

Didn't get the code?

- Codes can take up to 5 minutes to arrive.
- Check your spam folder.

Następnym krokiem jest ustawienie hasła.



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## Sign up for AWS

### Create your password

✔ It's you! Your email address has been successfully verified. ✕

Your password provides you with sign in access to AWS, so it's important we get it right.

Root user password

Confirm root user password

Continue (step 1 of 5)

OR

Sign in to an existing AWS account

Następnie podajemy swoje dane.



### Free Tier offers

All AWS accounts can explore 3 different types of free offers, depending on the product used.



**Always free**  
Never expires



**12 months free**  
Start from initial sign-up date



**Trials**  
Start from service activation date

## Sign up for AWS

### Contact Information

How do you plan to use AWS?

- Business - for your work, school, or organization
- Personal - for your own projects

Who should we contact about this account?

Full Name

Sebastian Dolata

Organization name

Uniwersytet im. Adama Mickiewicza w Pozn.

Country Code Phone Number



+1



222-333-4444

Country or Region

United States



Address line 1

Address line 2

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

City

State, Province, or Region

A state, province, or region is required.

Postal Code

- I have read and agree to the terms of the [AWS Customer Agreement](#).

Continue (step 2 of 5)

Potem dokonujemy płatności 1\$.



### Secure verification

**i** We will not charge you for usage below AWS Free Tier limits. We may temporarily hold up to \$1 USD (or an equivalent amount in local currency) as a pending transaction for 3-5 days to verify your identity.



## Sign up for AWS

### Billing Information

#### Billing country

Your billing country determines the payment methods available to you to pay for AWS services.

Poland ▼

#### Credit or Debit card number



AWS accepts most major credit and debit cards. To learn more about payment options, review our [FAQ](#)

#### Expiration date

Month ▼ Year ▼

#### Security code **i**

CVV/CVC

#### Cardholder's name

#### Billing address

Use my contact address

Use a new address

**Verify and Continue (step 3 of 5)**

You might be redirected to your bank's website to authorize the verification charge.

W kolejnym kroku potwierdzamy tożsamość.



## Sign up for AWS

### Confirm your identity

Before you can use your AWS account, you must verify your phone number. When you continue, the AWS automated system will contact you with a verification code.

How should we send you the verification code?

- Text message (SMS)
- Voice call

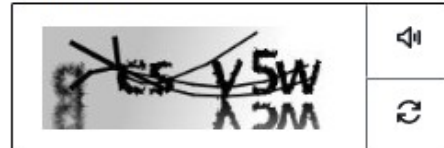
Country or region code

Poland (+48)

Mobile phone number

 A phone number is required.

Security check



Type the characters as shown above

Send SMS (step 4 of 5)



## Sign up for AWS

### Confirm your identity

Verify code

Continue (step 4 of 5)

Having trouble? Sometimes it takes up to 10 minutes to retrieve a verification code. If it's been longer than that, [return to the previous page](#) and try again.




Na koniec wybieramy najtańszą opcję.



## Sign up for AWS

### Select a support plan

Choose a support plan for your business or personal account. [Compare plans and pricing examples](#)  
 You can change your plan anytime in the AWS Management Console.

<p><input checked="" type="radio"/> <b>Basic support - Free</b></p> <ul style="list-style-type: none"><li>Recommended for new users just getting started with AWS</li><li>24x7 self-service access to AWS resources</li><li>For account and billing issues only</li><li>Access to Personal Health Dashboard &amp; Trusted Advisor</li></ul> 	<p><input type="radio"/> <b>Developer support - From \$29/month</b></p> <ul style="list-style-type: none"><li>Recommended for developers experimenting with AWS</li><li>Email access to AWS Support during business hours</li><li>12 (business)-hour response times</li></ul> 	<p><input type="radio"/> <b>Business support - From \$100/month</b></p> <ul style="list-style-type: none"><li>Recommended for running production workloads on AWS</li><li>24x7 tech support via email, phone, and chat</li><li>1-hour response times</li><li>Full set of Trusted Advisor best-practice recommendations</li></ul> 
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#### Need Enterprise level support?

From \$15,000 a month you will receive 15-minute response times and concierge-style experience with an assigned Technical Account Manager. [Learn more](#)

[Complete sign up](#)



## Congratulations!

Thank you for signing up with AWS.

We are activating your account, which should take a few minutes. You will receive an email when this is complete.

[Go to the AWS Management Console](#)

[Sign up for another account](#) or [Contact Sales](#)

Aby utworzyć maszynę wirtualną, użyjemy serwisu EC2.

### Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

[Launch instance](#) ▼ [Migrate a server](#) ↗

Note: Your instances will launch in the Europe (Frankfurt) Region

Potem przeklikujemy różne ustawienia.

## 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](#)

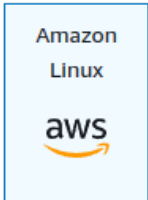


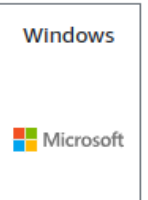



Name

 [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

#### Quick Start

						 <a href="#">Browse more AMIs</a> Including AMIs from AWS, Marketplace and the Community
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#### Amazon Machine Image (AMI)

Amazon Linux 2023 AMI ami-00f07845aed8r0ee7 (64-bit (x86) uefi-preferred) / ami-0a0d2ca99b40eb592 (64-bit (Arm) uefi)	Free tier eligible ▼
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### Description

Amazon Linux 2023 is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications.

Architecture

64-bit (x86) ▼

Boot mode

uefi-preferred

AMI ID

ami-00f07845aed8c0ee7

Username

ec2-user



Verified provider

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

Instance type

**t2.micro** Free tier eligible

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

On-Demand Windows base pricing: 0.018 USD per Hour

On-Demand SUSE base pricing: 0.0134 USD per Hour

On-Demand Linux base pricing: 0.0134 USD per Hour

On-Demand RHEL base pricing: 0.0278 USD per Hour

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*

algorytmy-uam-ec2 ▼

[Create new key pair](#)



Subnet [Info](#)

No preference (Default subnet in any availability zone)

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

We'll create a new security group called 'launch-wizard-1' with the following rules:


- Allow SSH traffic from Anywhere  
0.0.0.0/0  
Helps you connect to your instance
- Allow HTTPS traffic from the internet  
To set up an endpoint, for example when creating a web server
- Allow HTTP traffic from the internet  
To set up an endpoint, for example when creating a web server

 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. ✕


▼ **Configure storage** [Info](#)

[Advanced](#)

1x  GIB  Root volume (Not encrypted)

 Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage ✕

[Add new volume](#)

 **Success**  
Successfully initiated launch of instance ([i-051e845ab9312f071](#))

Połączenie do maszyny.

## Connect to instance Info


Connect to your instance i-051e845ab9312f071 (Algotymy) using any of these options

- EC2 Instance Connect**
- Session Manager
- SSH client
- EC2 serial console

**⚠ Port 22 (SSH) is open to all IPv4 addresses**

Port 22 (SSH) is currently open to all IPv4 addresses, indicated by **0.0.0.0/0** in the inbound rule in [your security group](#). For increased security, consider restricting access to only the EC2 Instance Connect service IP addresses for your Region: 3.120.181.40/29. [Learn more](#).

Instance ID


 i-051e845ab9312f071 (Algotymy)

Connection Type

**Connect using EC2 Instance Connect**  
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 or IPv6 address.

**Connect using EC2 Instance Connect Endpoint**  
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

**Public IPv4 address**

 18.185.138.234

**IPv6 address**

—

**Username**

Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.

**ⓘ Note:** In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

**Cancel** **Connect**

```
A newer release of "Amazon Linux" is available.  
Version 2023.5.20241001:  
Run "/usr/bin/dnf check-release-update" for full release and version update info
```

```
  #_
  \_  #####_      Amazon Linux 2023
  ~\  #####\
  ~\  \###|
  ~\  \#/
  ~\  V-' '->
  ~~~
  ~..
  ~/_m/'

```

```
[ec2-user@ip-172-31-37-181 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-37-181 ~]$ ls
[ec2-user@ip-172-31-37-181 ~]$ echo "Zadanie wykonane\nPozdrawiam,\nSebastian Dolata"
Zadanie wykonane\nPozdrawiam,\nSebastian Dolata
[ec2-user@ip-172-31-37-181 ~]$ vim t.txt
[ec2-user@ip-172-31-37-181 ~]$ cat t.txt
Zadanie wykonane.
```

```
Pozdrawiam,  
Sebastian Dolata  
[ec2-user@ip-172-31-37-181 ~]$ □
```

i-051e845ab9312f071 (Algorytmy)

PublicIPs: 18.185.138.234 PrivateIPs: 172.31.37.181