TECHPLEMENT

Week1-Task

Submission for Cloud AWS Intern

Deploy Application in Monolithic and Microservices Architecture

i)Monolithic Architecture Deployment

1) **Launch an EC2 Instance**

- Go to the AWS Management Console.
- Navigate to EC2 Dashboard.
- Click "Launch Instance."
- Choose the Amazon Machine Image (AMI): ubuntu-*.
- Select instance type: t2-micro.
- Configure instance details and add storage.
- Add a tag with the name Monolithic-WordPress.
- Configure Security Group to allow HTTP (port 80), HTTPS (port 443), and MySQL/Aurora (port 3306).
- Review and launch the instance.

2) Install LAMP Stack (Linux, Apache, MySQL, PHP)

- sudo apt update
- sudo apt install apache2
- sudo apt install mysql-server
- sudo mysql_secure_installation
- sudo apt install php libapache2-mod-php php-mys

3) install and Configure WordPress

- `bash`
- `Copy code`
- `wget https://wordpress.org/latest.tar.gz`
- `tar -xvzf latest.tar.gz`
- `sudo mysql -u root -p CREATE DATABASE wordpress;`
- `CREATE USER 'wordpressuser'@'localhost' IDENTIFIED BY 'password';`
- `GRANT ALL PRIVILEGES ON wordpress.* TO 'wordpressuser'@'localhost';`
- `FLUSH PRIVILEGES;`
- `EXIT;`
- `sudo systemctl restart apache2`

4) **Configure WordPress**

- Open a browser and navigate to `http://your-ec2-public-ip/wordpress`.
- Follow the WordPress setup wizard to configure the database and create a welcome page as the homepage.

Monolithic Architecture

sudo su
apt update
apt install apache2 -y
apt install php libapache2-mod-php php-mysql -y
apt install mysql-server -y

INSQL

sql
ALTER USER 'root'@localhost IDENTIFIED WITH mysql_native_password BY 'Altrin@909';
create user "wp_user"@localhost IDENTIFIED BY "Altrin@909";
create database wp;
grant all privileges on wp.* to "wp_user"@localhost;

INWORD

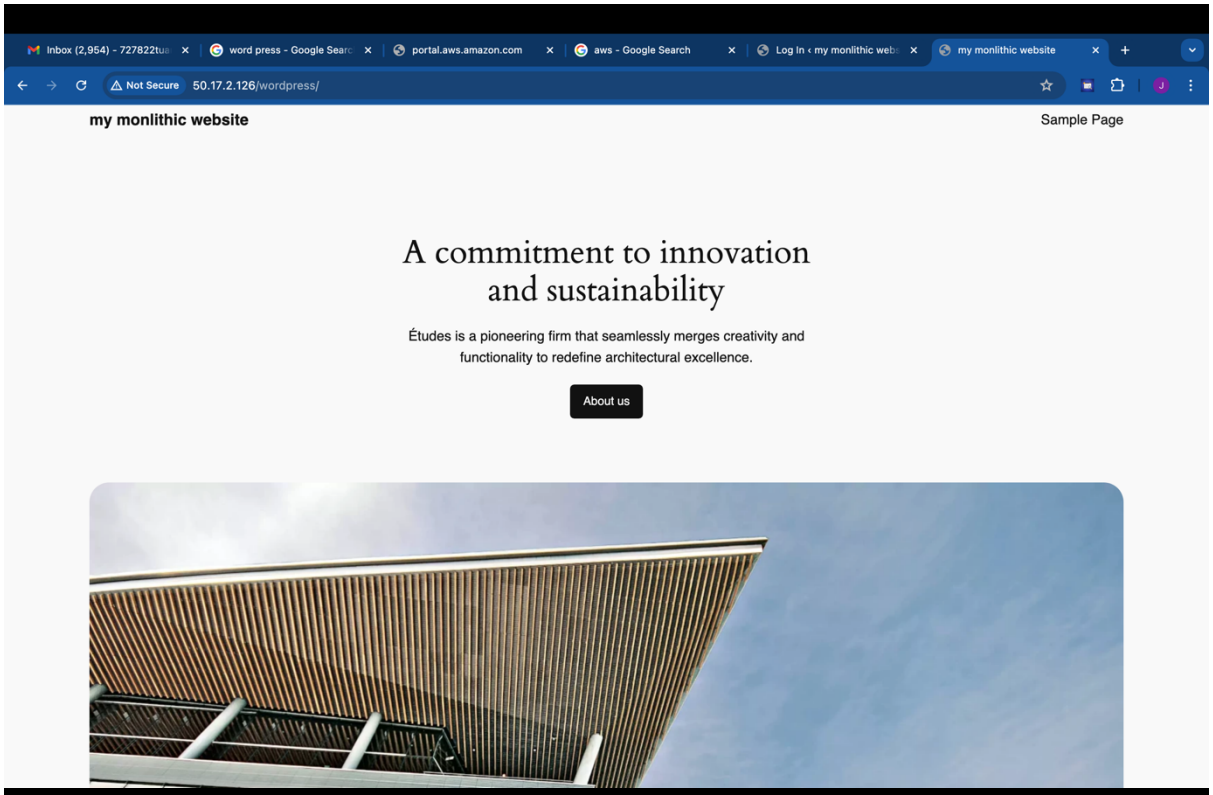
cd /tmp
wget -c http://wordpress.org/latest.tar.gz
tar -xzvf latest.tar.gz
mv wordpress/ /var/www/html/
cd /var/www/html/

There is a error occur in ipaddress/wordpress.so copy the code on that page and do as given below

cd wordpress
vim wp-config.php

To Run the application on ipaddress instead of the ipaddress/wordpress

cd /etc/apache2/sites-available/
vim 000-default.conf
systemctl restart apache2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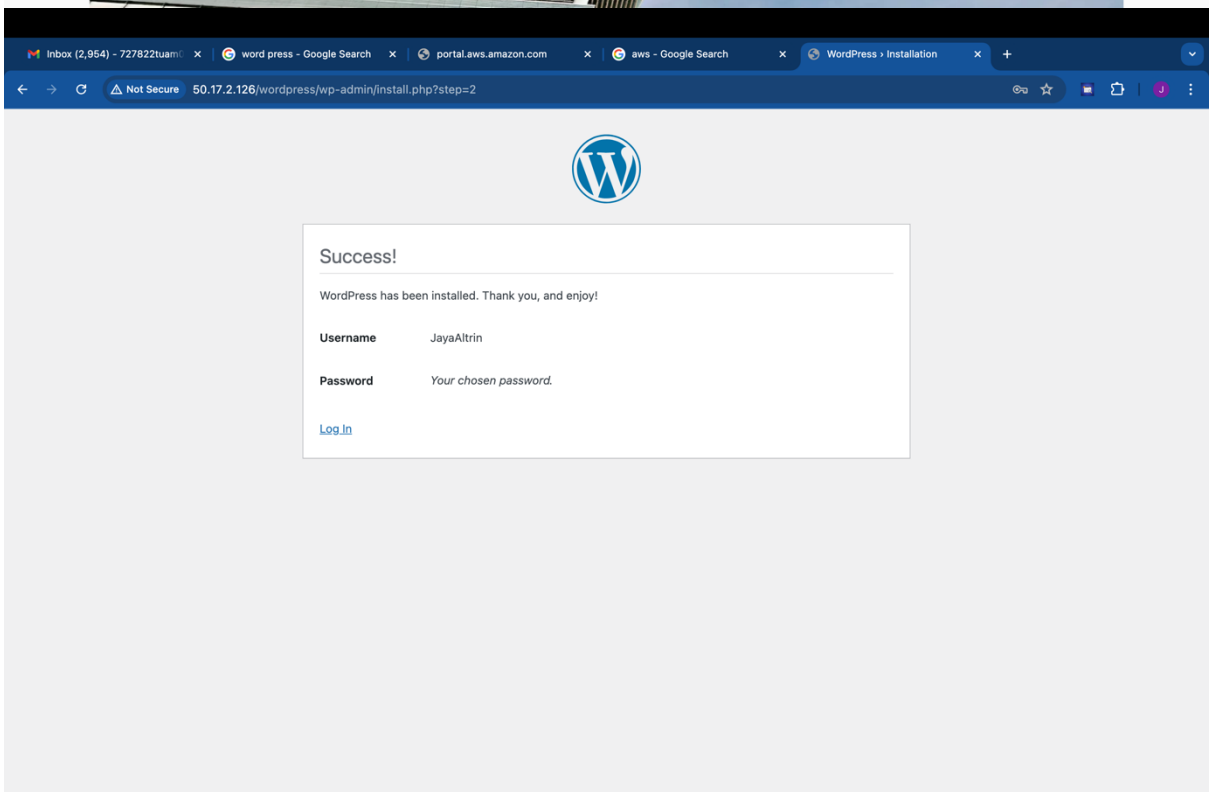
Sample Page
A commitment to innovation and sustainability
Études is a pioneering firm that seamlessly merges creativity and functionality to redefine architectural excellence.
About us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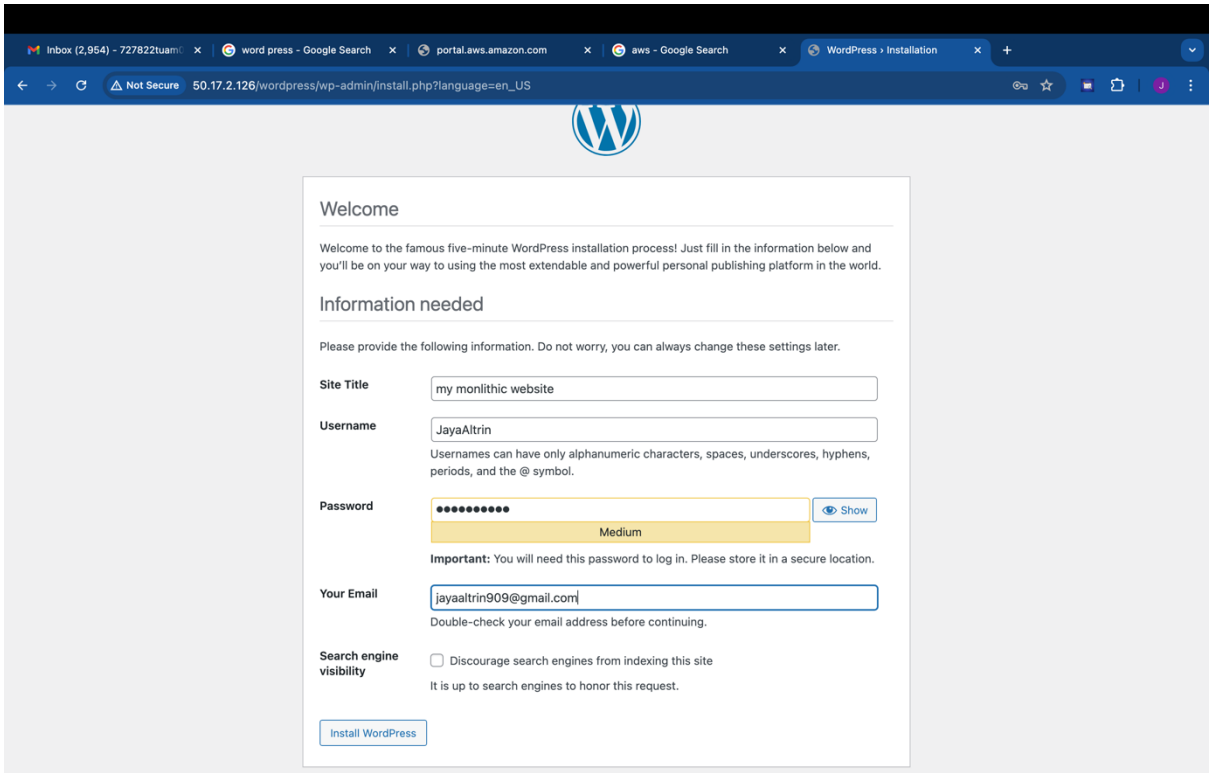
word press - Google Search
portal.aws.amazon.com
aws - Google Search
WordPress › Installation
Not Secure
50.17.2.126/wordpress/wp-admin/install.php?step=2
Success!
WordPress has been installed. Thank you, and enjoy!
Username
JayaAltrin
Password
Your chosen password.
Log In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WordPress › Installation
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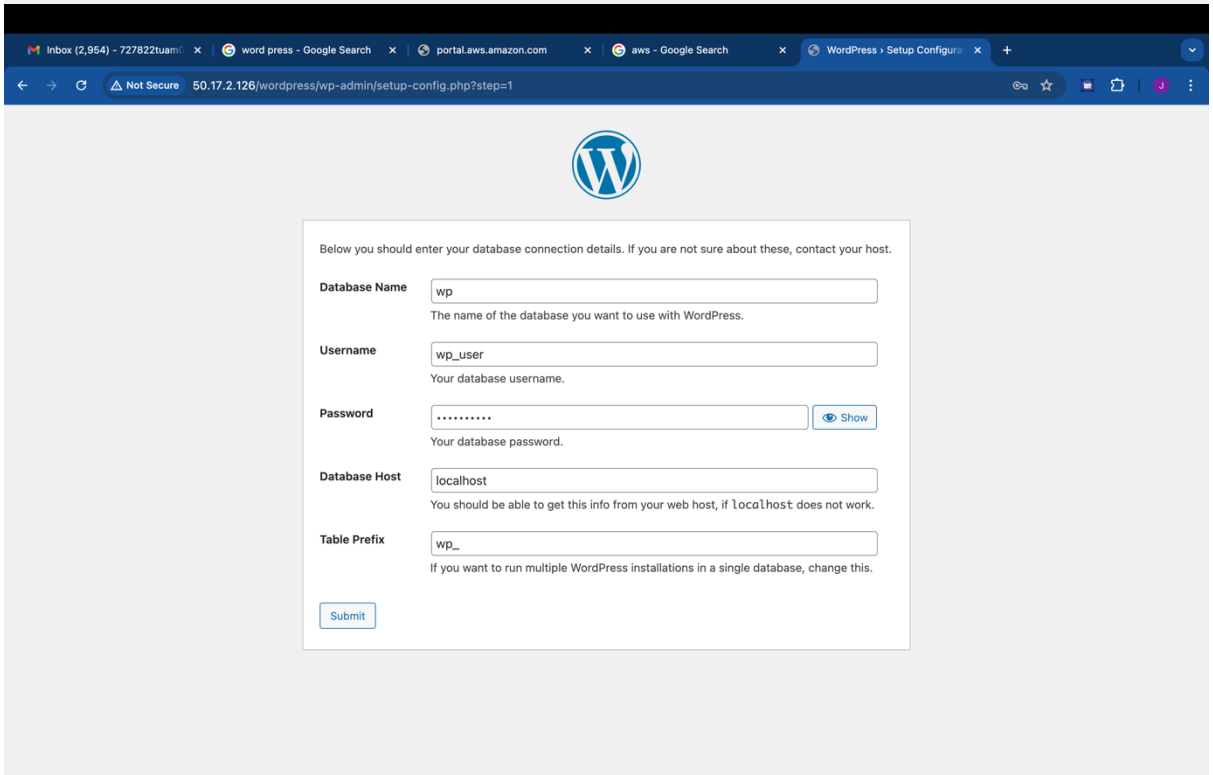
50.17.2.126/wordpress/wp-admin/install.php?language=en_US
Welcome
Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.
Information needed
Please provide the following information. Do not worry, you can always change these settings later.
Site Title
my monlithic website
Username
JayaAltrin
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.
Password
Show
Medium
Important: You will need this password to log in. Please store it in a secure location.
Your Email
jayaaltrin909@gmail.com
Double-check your email address before continuing.
Search engine visibility
Discourage search engines from indexing this site
It is up to search engines to honor this request.
Install WordPress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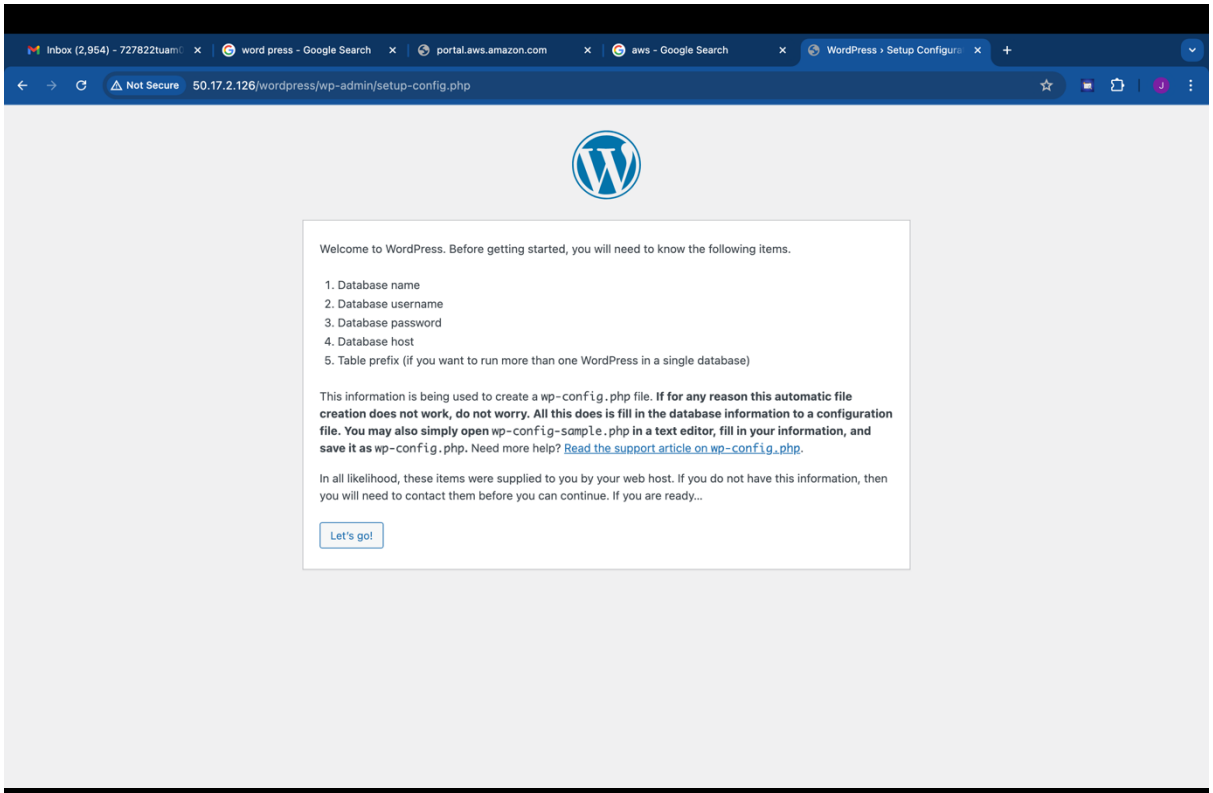
WordPress › Setup Configura
Not Secure
50.17.2.126/wordpress/wp-admin/setup-config.php?step=1
Below you should enter your database connection details. If you are not sure about these, contact your host.
Database Name
wp
The name of the database you want to use with WordPress.
Username
wp_user
Your database username.
Password
Show
Your database password.
Database Host
localhost
You should be able to get this info from your web host, if localhost does not work.
Table Prefix
wp_
If you want to run multiple WordPress installations in a single database, change this.
Submit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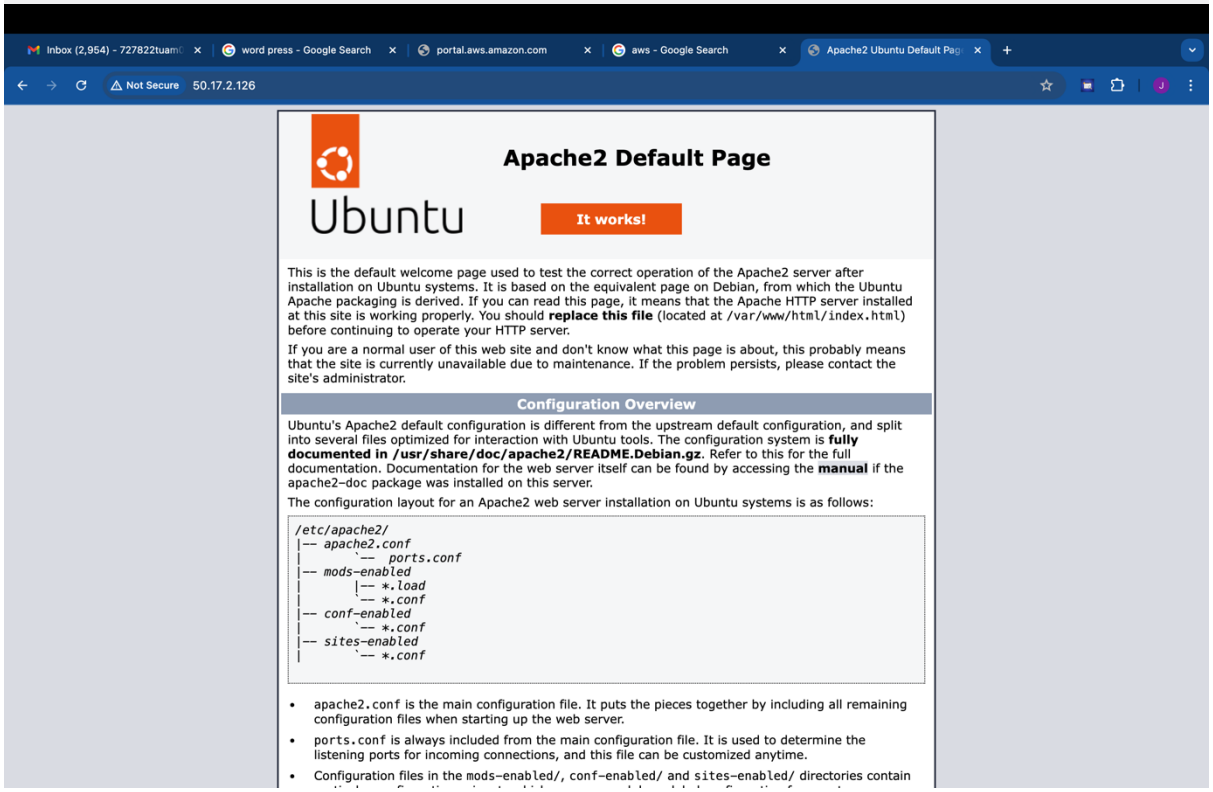
word press - Google Search
portal.aws.amazon.com
aws - Google Search
WordPress › Setup Configura
Not Secure
50.17.2.126/wordpress/wp-admin/setup-config.php
Welcome to WordPress. Before getting started, you will need to know the following items.
1. Database name
2. Database username
3. Database password
4. Database host
5. Table prefix (if you want to run more than one WordPress in a single database)
This information is being used to create a wp-config.php file. If for any reason this automatic file creation does not work, do not worry. All this does is fill in the database information to a configuration file. You may also simply open wp-config-sample.php in a text editor, fill in your information, and save it as wp-config.php. Need more help? Read the support article on wp-config.php.
In all likelihood, these items were supplied to you by your web host. If you do not have this information, then you will need to contact them before you can continue. If you are ready...
Let's go!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aws - Google Search
Apache2 Ubuntu Default Pag
Not Secure
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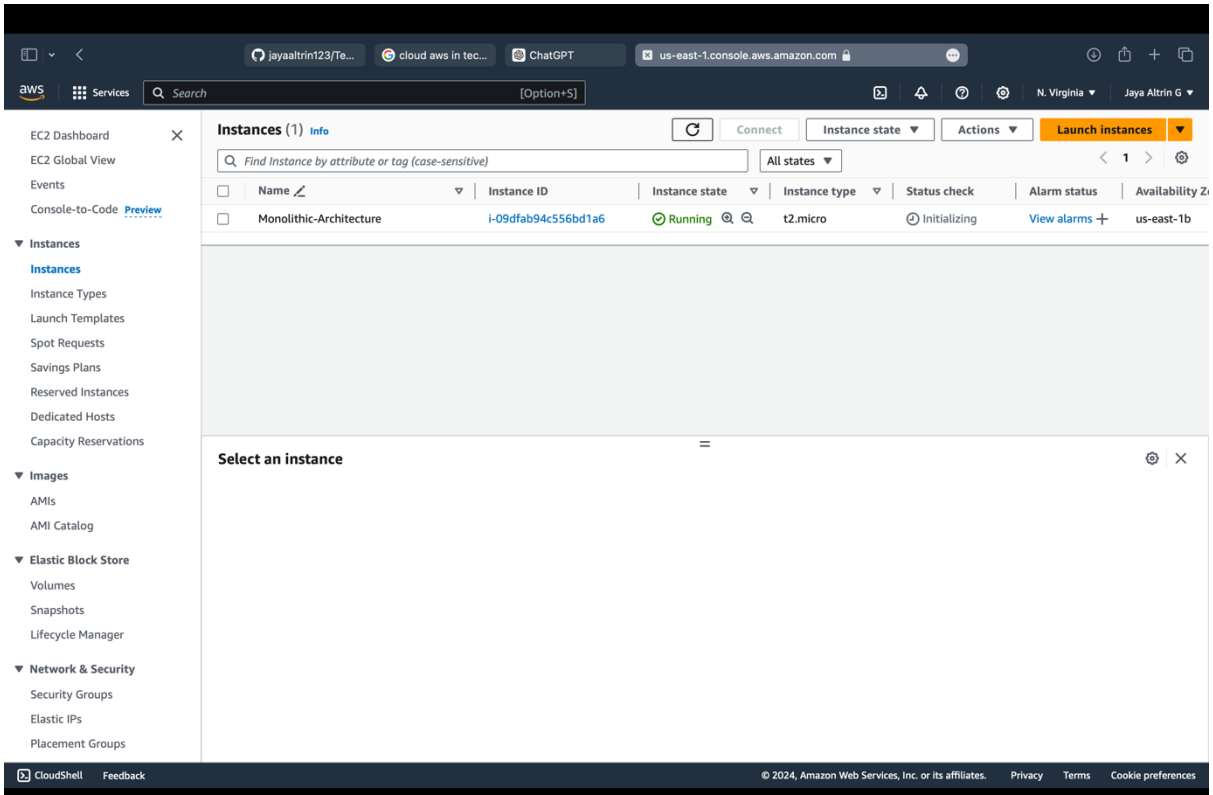
Apache2 Default Page
Ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled
| |-- *.load
| `-- *.conf
|-- conf-enabled
| `-- *.conf
|-- sites-enabled
| `-- *.conf
apache2.conf is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
ports.conf is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
Configuration files in the mods-enabled/, conf-enabled/ and sites-enabled/ directories contain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EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
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
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Z
Monolithic-Architecture
i-09dfab94c556bd1a6
Running
t2.micro
Initializing
View alarms
us-east-1b
Select an instance
CloudShell
Feedback
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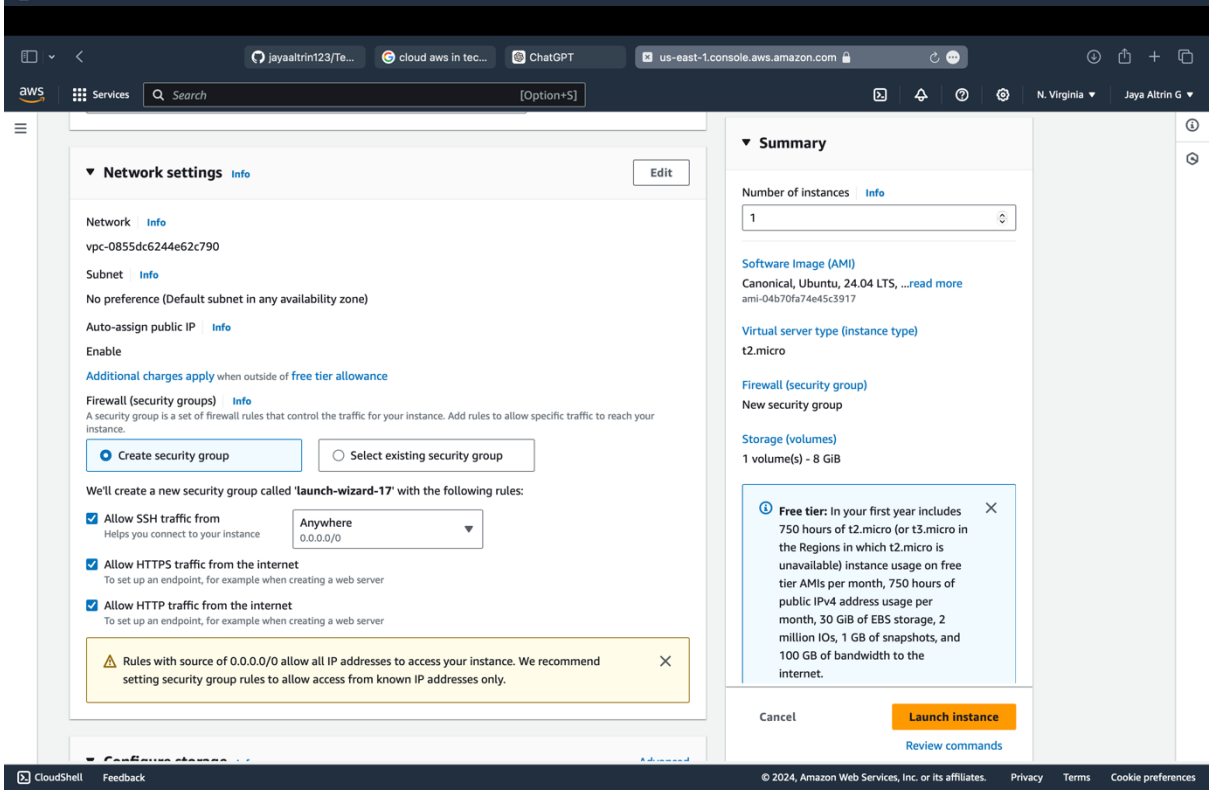
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us-east-1.console.aws.amazon.com
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Services
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Network settings Info
Edit
Network Info
vpc-0855dc6244e62c790
Subnet Info
No preference (Default subnet 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-17' with the following rules:
Allow SSH traffic from
Helps you connect to your instance
Anywhere
0.0.0.0/0
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.
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-04b70fa74e45c3917
Virtual server type (instance type)
t2.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
Launch instance
Review commands
CloudShell
Feedback
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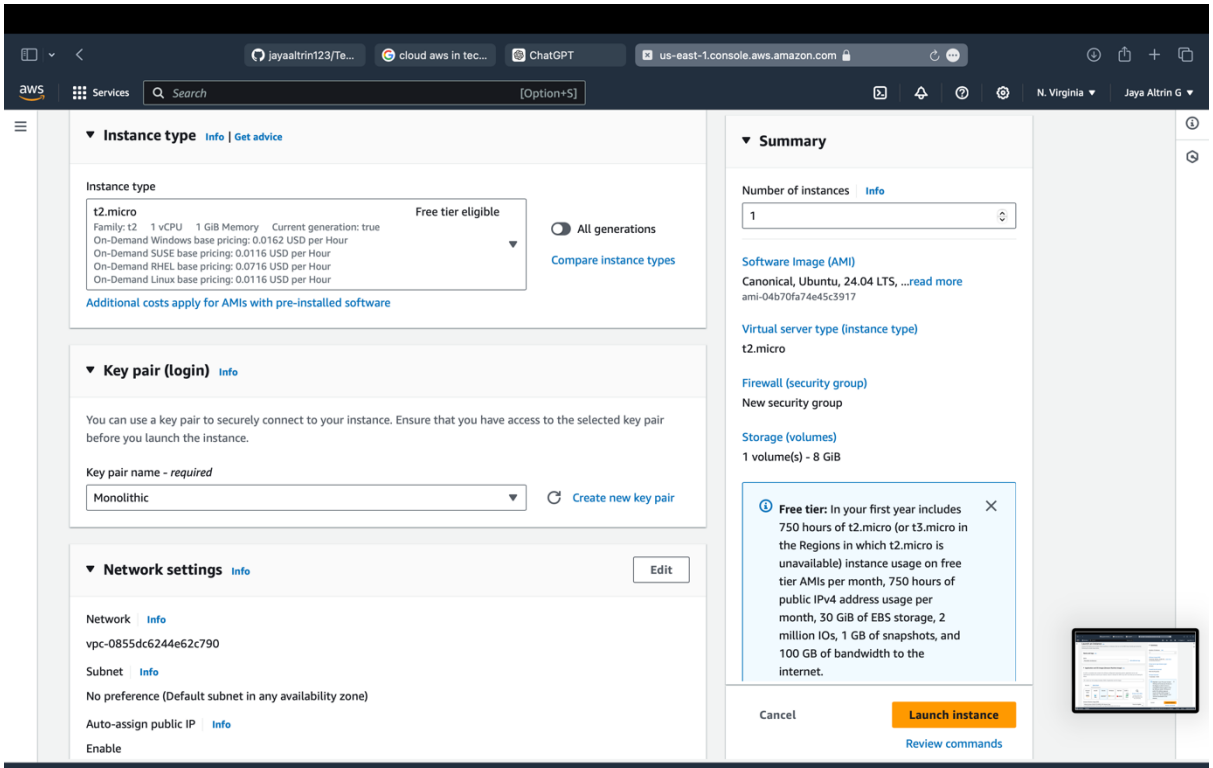
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us-east-1.console.aws.amazon.com
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Services
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Instance type Info | Get advice
Instance type
t2.micro
Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand RHEL base pricing: 0.0716 USD per Hour
On-Demand Linux base pricing: 0.0116 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
Monolithic
Create new key pair
Network settings Info
Edit
Network Info
vpc-0855dc6244e62c790
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign public IP Info
Enable
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-04b70fa74e45c3917
Virtual server type (instance type)
t2.micro
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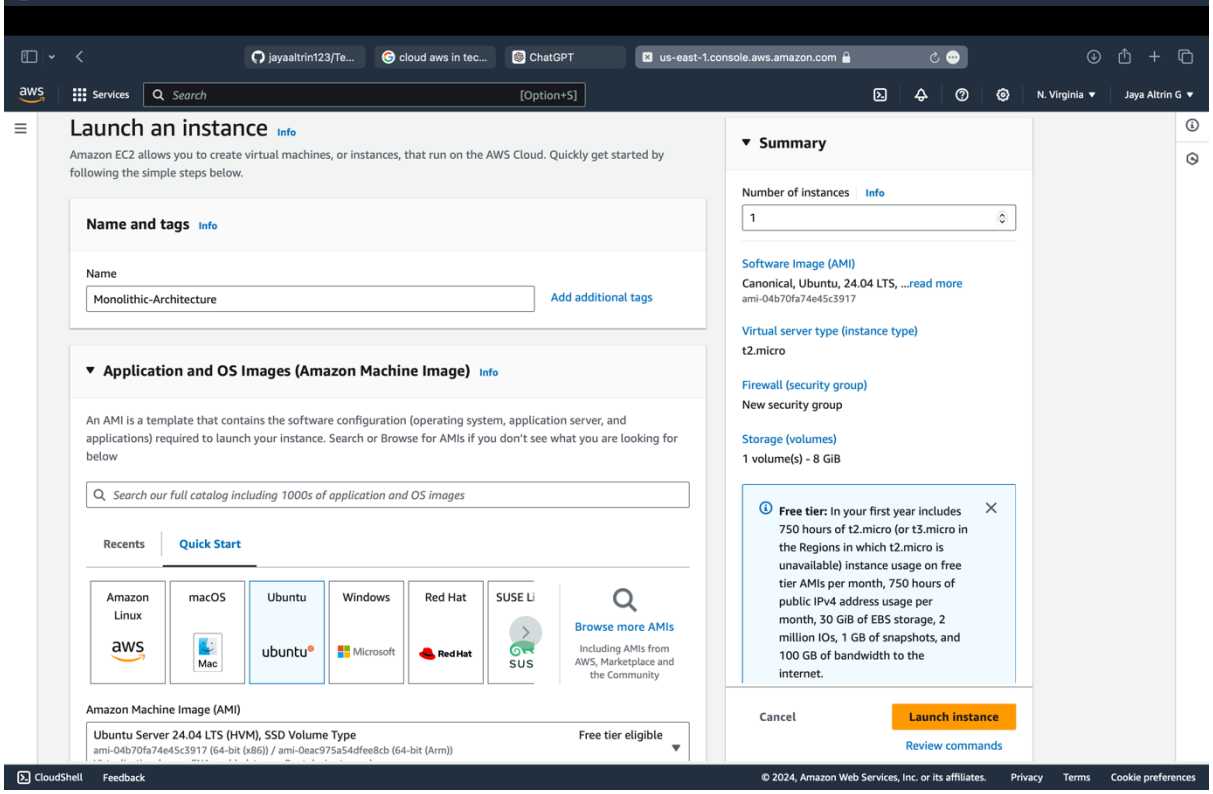
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cloud aws in tec...
ChatGPT
us-east-1.console.aws.amazon.com
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Services
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N. Virginia
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Launch 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
Monolithic-Architecture
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 Li
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-04b70fa74e45c3917 (64-bit (x86)) / ami-0eac975a54dfee8cb (64-bit (Arm))
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-04b70fa74e45c3917
Virtual server type (instance type)
t2.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
Launch instance
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Microservices Architecture Deployment

1) • Launch Two EC2 Instances

- Follow the same steps as in the monolithic deployment to launch two EC2 instances.
- Name one instance `Microservice-WordPress` and the other `Microservice-MySQL`.
- Configure the Security Groups:
  - `Microservice-WordPress`: Allow HTTP (port 80), HTTPS (port 443).
  - `Microservice-MySQL`: Allow MySQL/Aurora (port 3306) only from the `Microservice-WordPress` instance's IP.

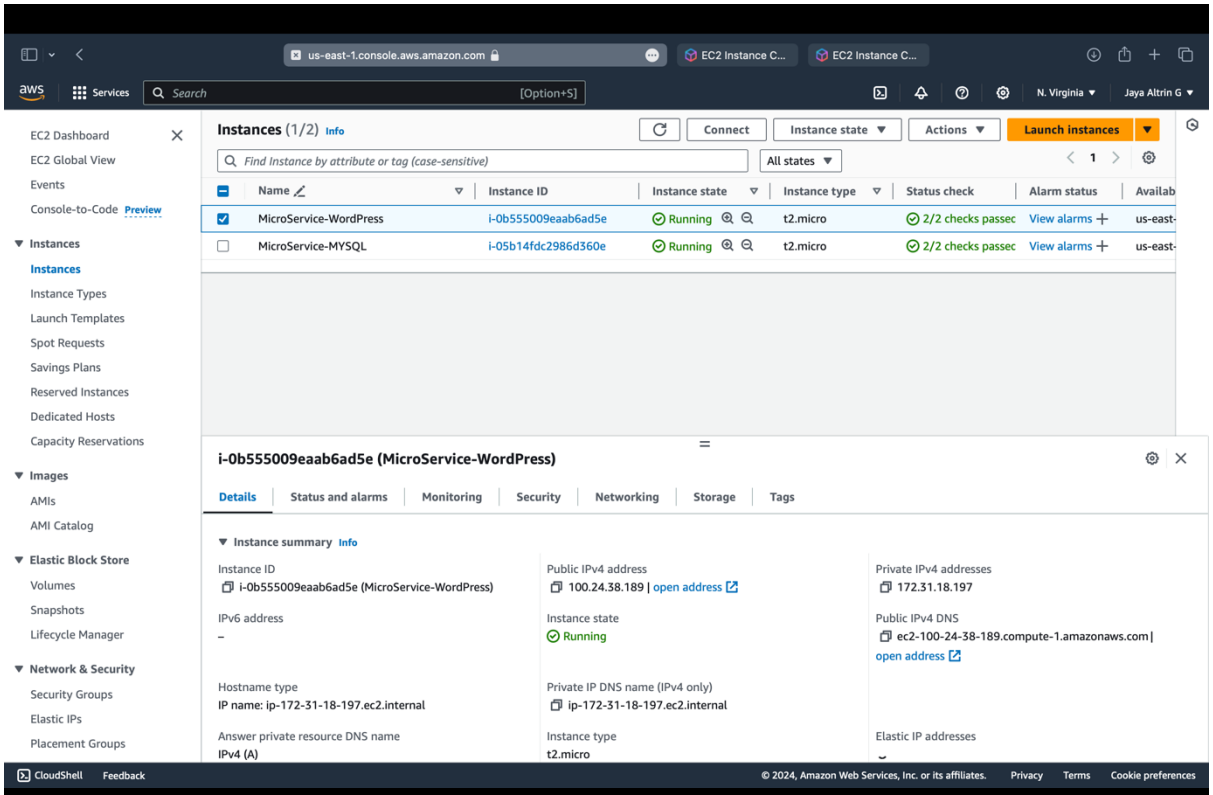
2) **Setup MySQL on the MySQL Instance**

- SSH into the `Microservice-MySQL` instance and install MySQL:
  - `sudo apt update`
  - `sudo apt install mysql-server`
  - `sudo mysql_secure_installation`
  - `sudo mysql -u root -p`
  - `CREATE DATABASE wordpress;`
  - `CREATE USER 'wordpressuser'@'wordpress-instance-private-ip' IDENTIFIED BY 'password';`
  - `GRANT ALL PRIVILEGES ON wordpress.* TO 'wordpressuser'@'wordpress-instance-private-ip';`
  - `FLUSH PRIVILEGES;`
  - `EXIT;`

3) Setup WordPress on the WordPress Instance

- SSH into the `Microservice-WordPress` instance and install Apache, PHP, and WordPress:
  - `sudo apt update`
  - `sudo apt install apache2`
  - `sudo apt install php libapache2-mod-php php-mysql`
  - `wget https://wordpress.org/latest.tar.gz`
  - `tar -xvzf latest.tar.gz`
  - `sudo mv wordpress /var/www/html/`
  - `sudo chown -R www-data:www-data /var/www/html/wordpress`
  - `sudo chmod -R 755 /var/www/html/wordpress`
  - `sudo systemctl restart apache2`

1. **4) Configure WordPress to Use the Remote MySQL Database**
   - Open a browser and navigate to `http://your-wordpress-instance-public-ip/wordpress`.
   - Follow the WordPress setup wizard and enter the MySQL instance's private IP address for the database configuration.
   - Create a welcome page as the homepage.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EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
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
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Instances (1/2) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
MicroService-WordPress
i-0b555009eaab6ad5e
Running
t2.micro
2/2 checks passed
View alarms
MicroService-MYSQL
i-05b14fdc2986d360e
Running
t2.micro
2/2 checks passed
View alarms
i-0b555009eaab6ad5e (MicroService-WordPress)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-0b555009eaab6ad5e (MicroService-WordPress)
IPv6 address
–
Hostname type
IP name: ip-172-31-18-197.ec2.internal
Answer private resource DNS name
IPv4 (A)
Public IPv4 address
100.24.38.189 | open address
Instance state
Running
Private IP DNS name (IPv4 only)
ip-172-31-18-197.ec2.internal
Instance type
t2.micro
Private IPv4 addresses
172.31.18.197
Public IPv4 DNS
ec2-100-24-38-189.compute-1.amazonaws.com | open address
Elastic IP addresses
CloudShell
Feedback
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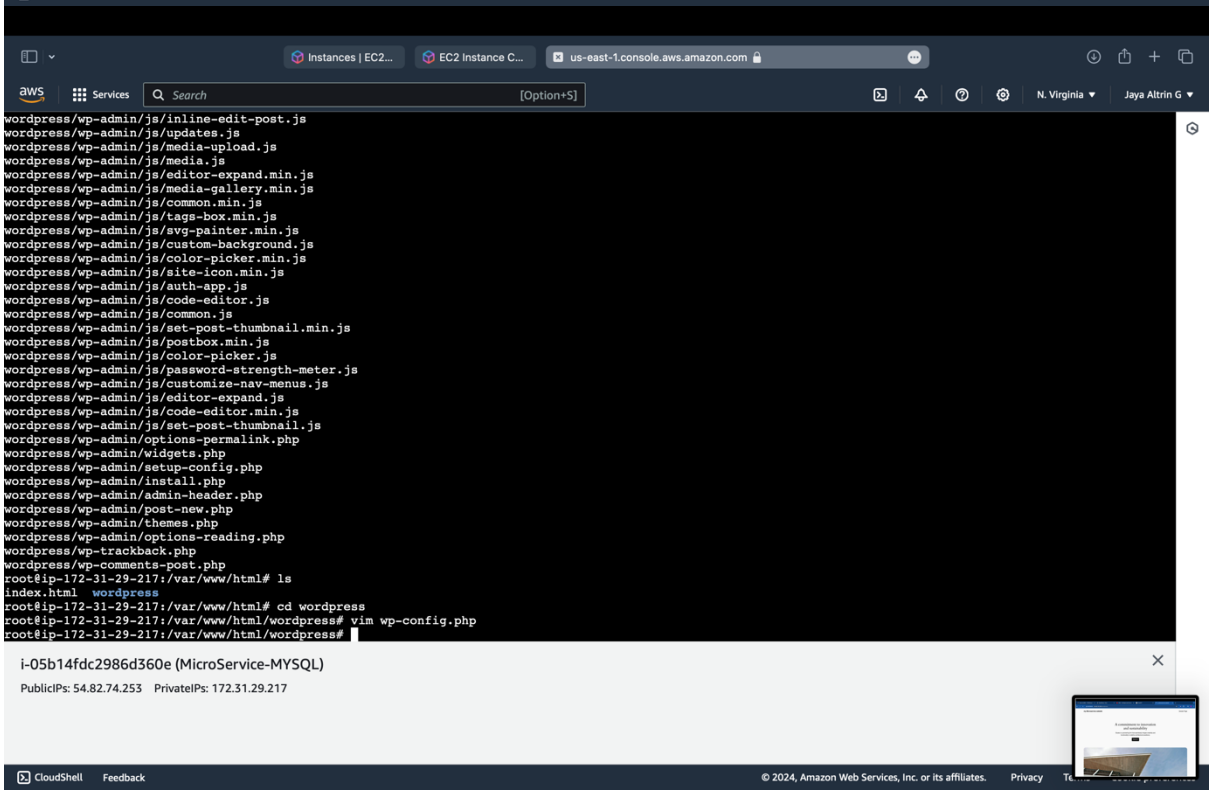
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wordpress/wp-admin/js/updates.js
wordpress/wp-admin/js/media-upload.js
wordpress/wp-admin/js/media.js
wordpress/wp-admin/js/editor-expand.min.js
wordpress/wp-admin/js/media-gallery.min.js
wordpress/wp-admin/js/common.min.js
wordpress/wp-admin/js/tags-box.min.js
wordpress/wp-admin/js/svg-painter.min.js
wordpress/wp-admin/js/custom-background.js
wordpress/wp-admin/js/color-picker.min.js
wordpress/wp-admin/js/site-icon.min.js
wordpress/wp-admin/js/auth-app.js
wordpress/wp-admin/js/code-editor.js
wordpress/wp-admin/js/common.js
wordpress/wp-admin/js/set-post-thumbnail.min.js
wordpress/wp-admin/js/postbox.min.js
wordpress/wp-admin/js/color-picker.js
wordpress/wp-admin/js/password-strength-meter.js
wordpress/wp-admin/js/customize-nav-menus.js
wordpress/wp-admin/js/editor-expand.js
wordpress/wp-admin/js/code-editor.min.js
wordpress/wp-admin/js/set-post-thumbnail.js
wordpress/wp-admin/options-permalink.php
wordpress/wp-admin/widgets.php
wordpress/wp-admin/setup-config.php
wordpress/wp-admin/install.php
wordpress/wp-admin/admin-header.php
wordpress/wp-admin/post-new.php
wordpress/wp-admin/themes.php
wordpress/wp-admin/options-reading.php
wordpress/wp-trackback.php
wordpress/wp-comments-post.php
root@ip-172-31-29-217:/var/www/html# ls
index.html wordpress
root@ip-172-31-29-217:/var/www/html# cd wordpress
root@ip-172-31-29-217:/var/www/html/wordpress# vim wp-config.php
root@ip-172-31-29-217:/var/www/html/wordpress#
i-05b14fdc2986d360e (MicroService-MYSQL)
PublicIPs: 54.82.74.253 PrivateIPs: 172.31.29.217
CloudShell
Feedback
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Not Secure 54.82.74.253/wordpress/

my Microservice website Sample Page

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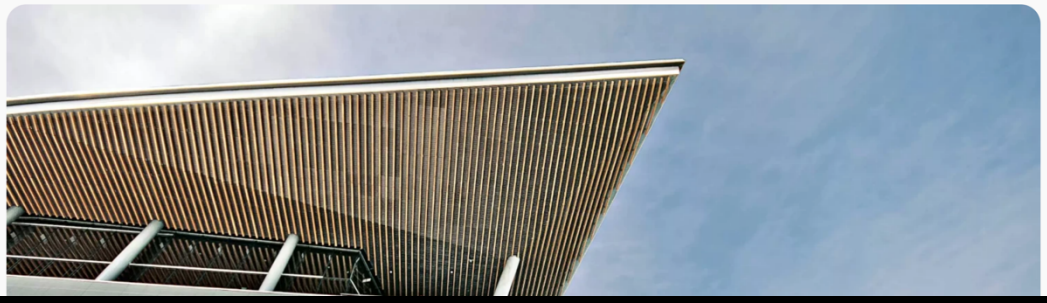
Études is a pioneering firm that seamlessly merges creativity and functionality to redefine architectural excellence.

About us



us-east-1.console.aws.amazon.com

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EC2 > Instances > Launch an instance

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

MicroService-MYSQL

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

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Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances Info

1

Canonical, Ubuntu, 24.04 LTS, ...read more

ami-04b70fa74e45c3917

Virtual server type (instance type)

t2.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 Launch instance

Review commands

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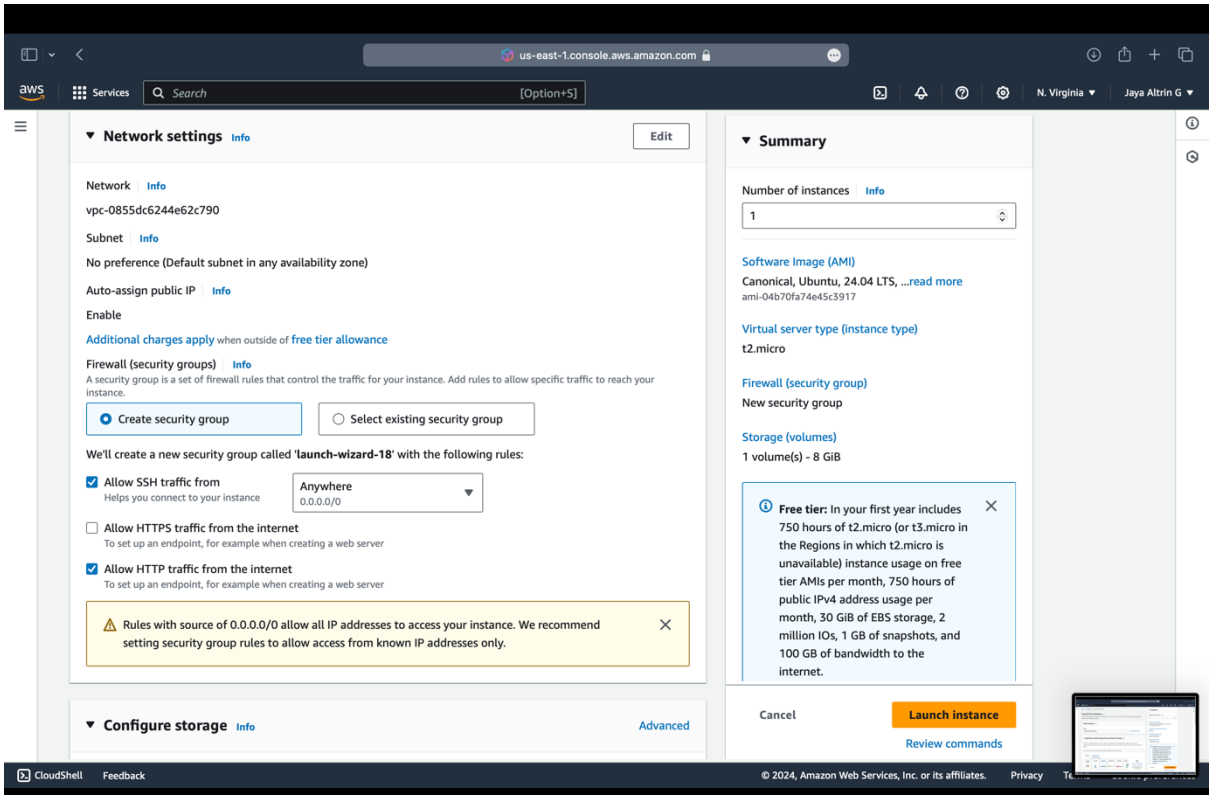
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Network settings Info
Edit
Network Info
vpc-0855dc6244e62c790
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance
Firewall (security groups) 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-18' with the following rules:
Allow SSH traffic from
Helps you connect to your instance
Anywhere
0.0.0.0/0
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
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-04b70fa74e45c3917
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New security group
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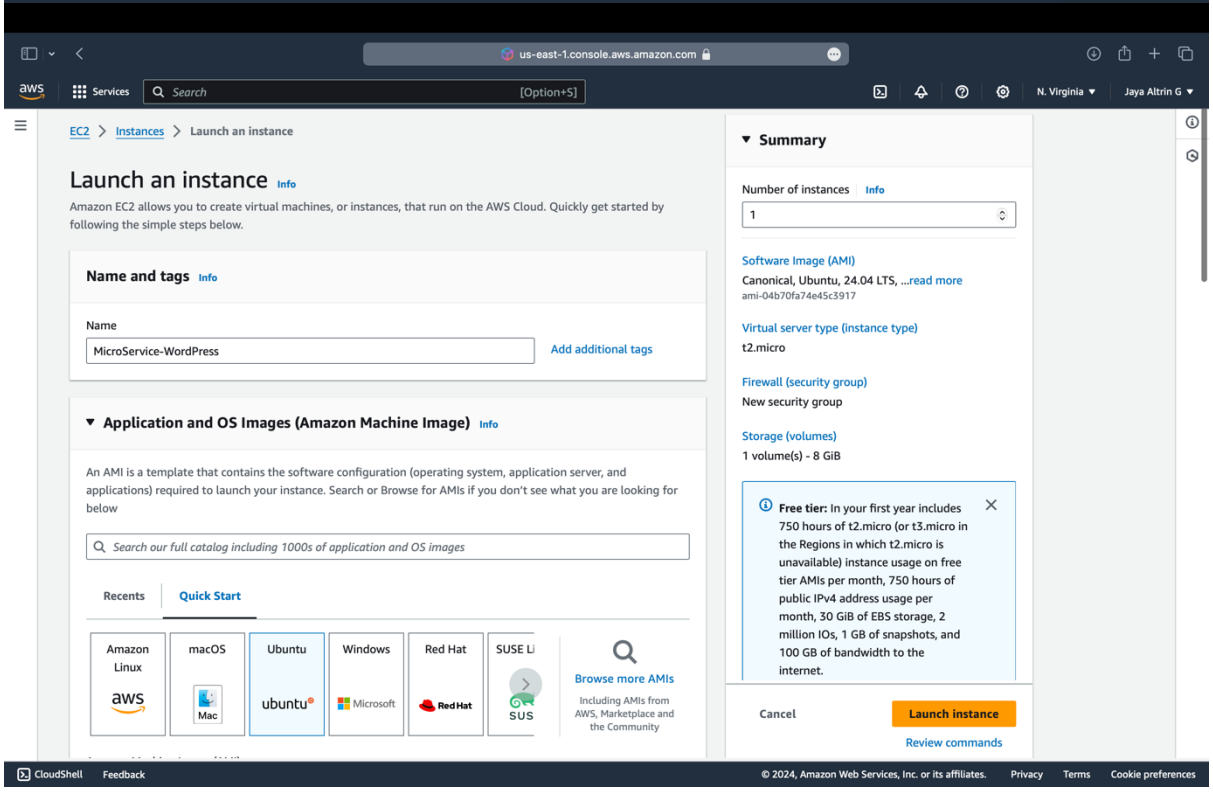
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