Set Up a Web App Using AWS and VS Code

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Introducing Today's Project!

In this project, I will demonstrate... I'm doing this project to learn...

Key tools and concepts

Services I used were EC2, Session Manager, Java, Apache Maven, SSH, vs code server, vscode, Key concepts I learnt include work in linux cli, establishing connection with server with vscode server in it and create java web app by choose archetype

Project reflection

One thing I didn't expect in this project wasnt that interesting until i change it a little bit, by setup vs code server

This project took me approximately... couple hours

This project is part one of a series of DevOps projects where I'm building a CI/CD pipeline! I'll be working on the next project

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Launching an EC2 instance

i launched ec2 to have server in cloud with Linux Server AMI to tbc

I also enabled SSH

ssh is safe protocol to connect remotely connect to instance (prot 22)

Key pairs

A key pair credentials to login using ssh to instance..

Once I set up my key pair, AWS automatically downloaded my privite key

Set up VS Code

VS Code is tool to manage and code apps

I installed VS Code to menage and code apps

```
ubuntu@ip-172-31-18-254:/home/devops$

i-07e85858f9ae603c6 (web-server)

PublicIPs: 13.49.224.203    PrivateIPs: 172.31.18.254
```

My first terminal commands

A terminal is... The first command I ran for this project is... ls

I also updated my private key's permissions by... chmod

SSH connection to EC2 instance

To connect to my EC2 instance, I ran the command ssh -i "kluczor.pem" ubuntu@ec2-13-49-224-203.eu-north-1.compute.amazonaws.com which is presented in aws connect section

This command required an IPv4 address

A server's IPV4 DNS is... ipv4 translated into domain name

```
Last login: Tue Oct 14 19:31:07 2025 from 13.48.4.202
ubuntu@ip-172-31-18-254:~$
```

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Maven & Java

Apache Maven is...tool to help developers build java web apps, it automates developing by having various archetypes

Maven is required in this project because... im going to set up web app

Java is...programing language used to code mobile apps nad more

Java is required in this project because...maven needs java to work

Create the Application

I generated a Java web throught archetype webapp

I installed vscode server to connect clients to vscode

Configuration details required to set up a remote connection include password that i created

Create the Application

Using VS Code's file explorer, I could see hierachy of catalogs and files

Two of the project folders created by Maven are src and webapp, which... src is source defined how web looks, webapp with files like index, css etc
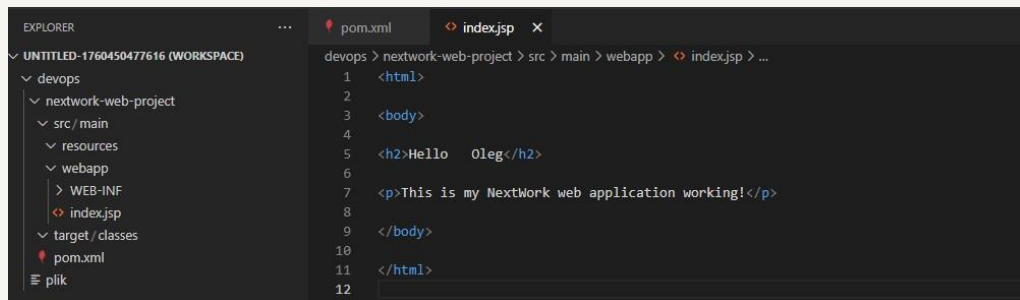
Using Remote - SSH

The index.jsp is... my web index file in jsp

I edited index.jsp by changing one line in code

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