TECHNOLOGY

Designing Applications and Architecture in AWS

Course-end Project

Set Up and Monitor a WordPress Instance

Objectives

To set up and monitoring a WordPress instance for your organization is to establish a reliable and secure online presence that supports your business or organizational goals.

Prerequisites

- Spring Boot
- Jenkins
- Docker
- AWS
- Git and GitHub

Motivation

Problem Statement:

You are given a project. You should be able to configure a WordPress instance using AWS CloudFormation and monitor the instance

Real-World Scenario:

Your organization publishes blogs and provides documentation services for other businesses and technologies. You have been asked to:

● Set up a live WordPress instance to publish blogs

● Set up a WordPress instance that can be used for development and testing purposes so that any work done on this instance will not impact the live blog

● Configure the WordPress instance for development and testing purposes, which will be available only during the business hours (9 AM–6 PM)

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Industry Relevance

In this project, several skills and tools are utilized, each serving a specific purpose within the industry:

AWS console – The AWS Management Console is a web application that includes and references several service consoles for managing AWS services.

- **AWS CloudFormation** – It is a service that aids users in modeling and configuring their AWS resources so they can focus more on their AWS-based apps and spend less time maintaining those resources.

- **EC2 Instance** - Amazon EC2 provides a large set of instance types that are customized to certain use cases.

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Task (Activities)

1. Create a CloudFormation stack

2. Create an AMI of the WordPress instance

3. Configure Auto Scaling to launch a new WordPress instance

4. Configure the new WordPress instance to shut down automatically

5. Monitor the instance using Availability Monitoring feature of the R53

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Project Reference

- **Task 1:** Create a CloudFormation stack; Lesson 09

- **Task 2:** Create an AMI of the WordPress instance; Lesson 03

- **Task 3:** Configure Auto Scaling to launch a new WordPress instance; Lesson 09

- **Task 4:** Configure the new WordPress instance to shut down automatically; Lesson 09

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Output Screenshots

Name	Instance ID	Instance Type	Availability Zone	Instance State
PROJECT2_WP1	i-cb3e9357	t2.micro	us-east-1b	🟢 running

Thank You