

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)

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.





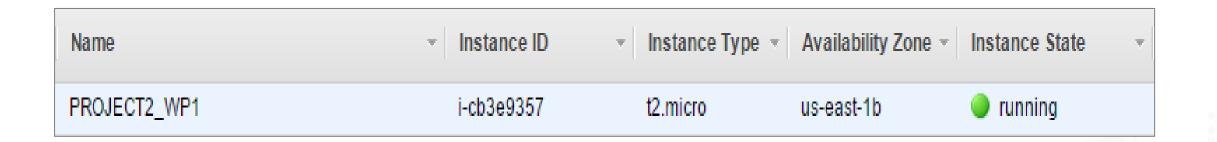
- 1. Create a CloudFormation stack
- 2. Create an AMI of the WordPress instance
- 3. Configure Auto Scaling to launch a new WordPress instance
- 4. Configure the new WordPress instance to shut down automatically
- 5. Monitor the instance using Availability Monitoring feature of the R53

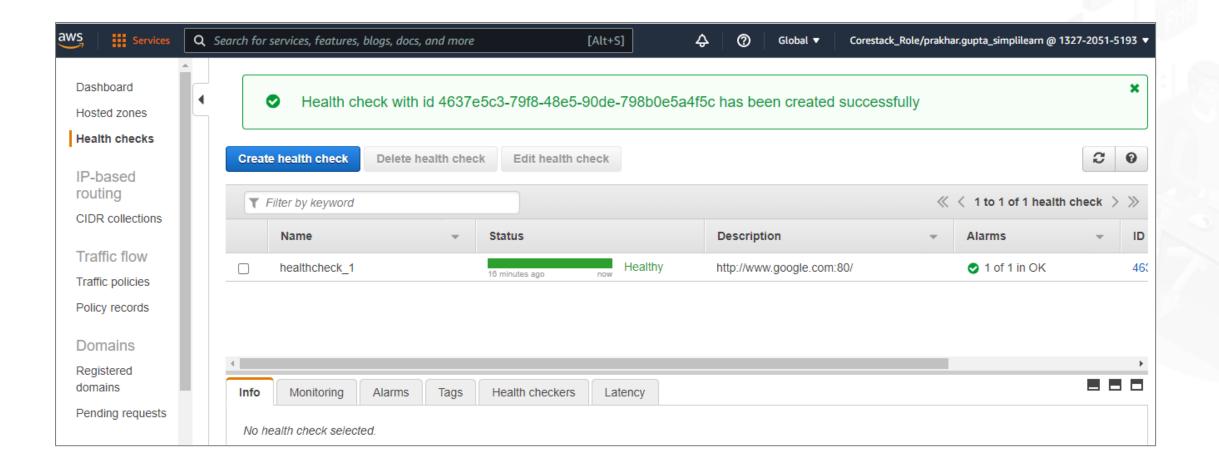




- Task 1: Create a CloudFormation stack; Lesson 09
- Task 2: Create an AMI of the WordPress instance; Lesson 03
- Task 3: Configure Auto Scaling to launch a new WordPress instance; Lesson 09
- Task 4: Configure the new WordPress instance to shut down automatically; Lesson 09

Output Screenshots







Thank You