

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)

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.

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

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

Output Screenshots

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

aws

Services

Search for services, features, blogs, docs, and more

[Alt+S]

Global

Corestack_Role/prakhar.gupta_simplilearn @ 1327-2051-5193

Dashboard

Hosted zones

Health checks

IP-based routing

CIDR collections

Traffic flow

Traffic policies

Policy records

Domains

Registered domains

Pending requests

Health check with id 4637e5c3-79f8-48e5-90de-798b0e5a4f5c has been created successfully

Create health checkDelete health checkEdit health check

Filter by keyword

1 to 1 of 1 health check

	Name	Status	Description	Alarms	ID
<input type="checkbox"/>	healthcheck_1	16 minutes ago now Healthy	http://www.google.com:80/	1 of 1 in OK	4637e5c3-79f8-48e5-90de-798b0e5a4f5c

InfoMonitoringAlarmsTagsHealth checkersLatency

No health check selected.

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Thank You