



University of Bamberg
Distributed Systems Group



Project Report

With the topic:

CI-CD CLOUD NATIVE

Submitted by:

Group 1

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Abbreviations

Part I

Introduction

1 Introduction

What is CI-CD?

What is CI-CD on cloud?

Why do we need to automate release steps for CI-CD on cloud?

Part II

CI-CD

1 CI-CD (Continuous Integration-Continuous Deployment)

1.1 Definition

1.2 Components

1.3 CI-CD on Cloud

1.4 Different Tools for CI-CD on Cloud

1.4.1 Azure DevOps

1.4.2 AWS

1.4.3 Google Cloud

Part III

Azure DevOps

1 CI-CD on Azure DevOps

1.1 Description

Write a description about the tool in terms of CI-CD.

1.2 CI-CD Process

How to setup CI-CD on the tool?

How CI-CD works by the tool?

1.3 Advantages

1.4 Disadvantages

Part IV

AWS

1 CI-CD on AWS

1.1 Description

Write a description about the tool in terms of CI-CD.

1.2 CI-CD Process

How to setup CI-CD on the tool?

How CI-CD works by the tool?

1.3 Advantages

1.4 Disadvantages

Part V

Google Cloud

1 CI-CD on Google Cloud

1.1 Description

Write a description about the tool in terms of CI-CD.

1.2 CI-CD Process

How to setup CI-CD on the tool?

How CI-CD works by the tool?

1.3 Advantages

1.4 Disadvantages

Part VI

Tool Decidation by Comparison

1 Particular tool decidation through comparison

Make comparison between previous described tools.

Choose a particular tool based on the comparison.

Part VII

Proposed Methodology

1 Proposed methodology for CI-CD on cloud automate release

Describe process or implementation concepts for every steps of CI-CD by the tool. (Conceptual description)

How to integrate Iac, Testing and Security on the proposed CI-CD pipeline methodology.

Part VIII

Conclusion

1 Conclusion

Write a conclusion