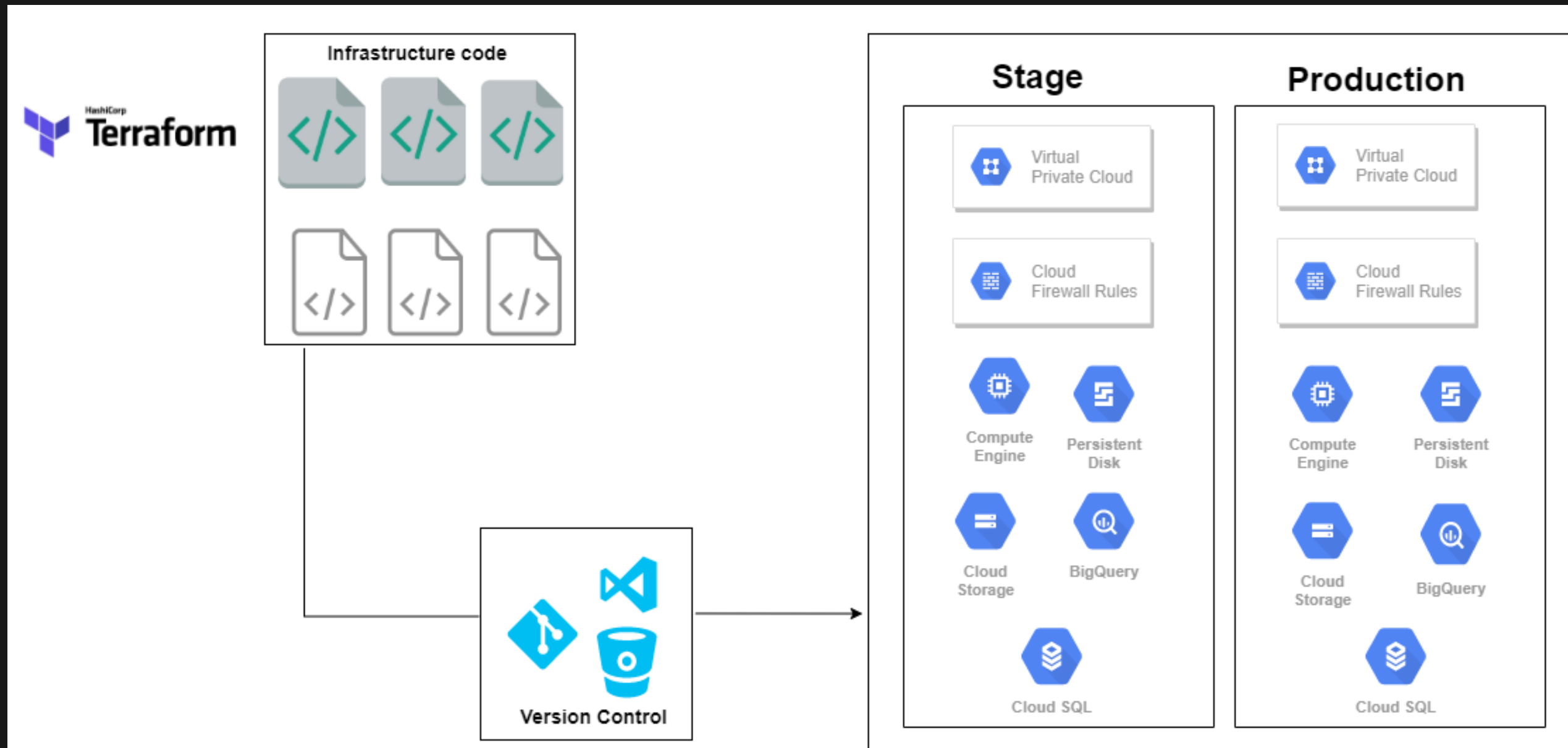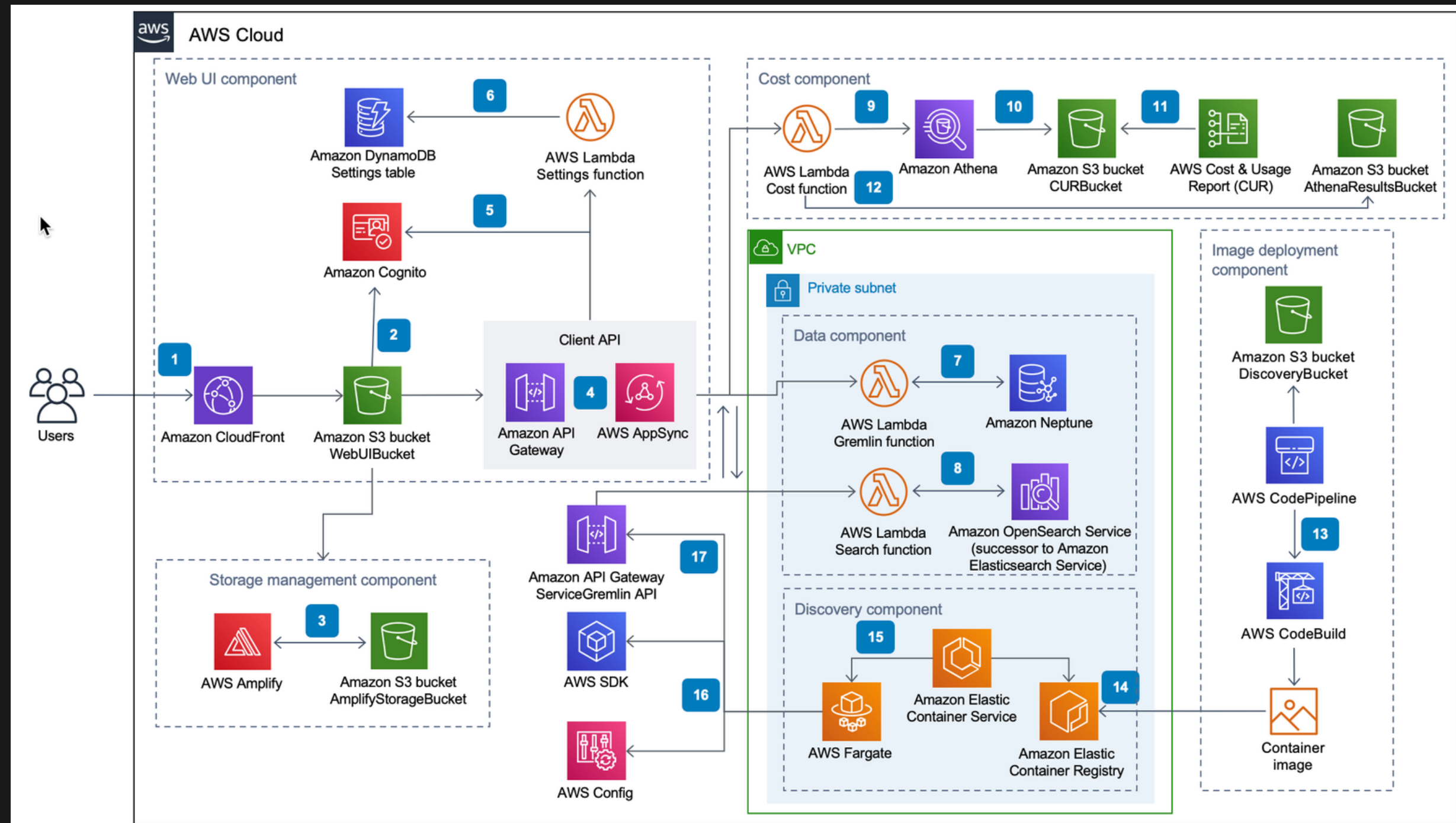# Introduction to IaC

IaC Introduction

IaC Introduction

What is Iac?

- IaC (Infrastructure as Code) is the means of creating and managing infrastructure through code
- Everything is defined through well written and documented code
- Stored in some source control management system, commonly Github
- Reduces manual tasks and effort
- Reduces the likelihood of infrastructure mismanagement, and greatly improves error handling
  - Terraform provides you with dry-run capabilities
  - Know what will happen, before it happens!
- The main benefits of IaC:
  - Leveraging Github - improves documentation, auditing, central location of all your infra config
  - Leverage automation - everything written in code, leverage CICD or any automation tools like Jira
  - Improve visibility - know exactly who made what and when
  - Scalability - as your environments get larger, without IaC, almost impossible to scale and manage

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Terraform

IaC Introduction

HashiCorp Terraform

IaC Introduction

- This course focuses on teaching IaC with Terraform on AWS
- IaC is a modern tool chain, not a trend
  - Almost every company implements IaC
  - Small, medium, large enterprise
- Learning IaC is crucial to becoming a valuable asset in your company
- Terraform is currently the most popular IaC tool, for good reason!

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