**Amazon EC2: The foundation of elastic computing**

On page 2, the explanation provided does not really give the reader a more practical understanding of what EC2 really is. It’s very high level. Even the diagram in Figure 2.1, doesn’t help in understanding the concept of EC2. It includes CI/DC components which are not the focus of this specific section.

To aid the reader to grasp the concept of EC2, it will be relevant to include conceptual architectural components of EC2 (compute, network, storage, memory) as presented in the page below: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/concepts.html

**Auto-scaling: Dynamic resource management**

Figure 2.2 on page is not explicit enough to help the reader understand how auto-scaling works. Preferably, there should be a clearer diagram or a couple of paragraph to explain it.

**EC2 Spot Instances: Cost-efficient computing**

Figure 2.3 cannot easily be understood by a newbie. It would be relevant to add a paragraph explaining the diagram in plain English.

On page 8, the sentence “Moreover, EC2 Spot Instances can be integrated with tools like AWS Auto Scaling and EC2 Fleet to automate workload management, further enhancing efficiency and availability” is duplicated in 2 paragraphs, creating redundancy.

**Amazon ECS**

On page 10, the “ECS provides robust integration with Amazon Elastic Container Registry (ECR), simplifies container image storage and management, and supports application scaling using AWS Auto Scaling and Application Load Balancers for high availability” is duplicated in 2 paragraphs, creating redundancy.

**Amazon EKS: Mastering container orchestration**

Figure 2.5 needs a little bit of explanation on page 11.

**Amazon Lightsail**

Figure 2.6 is not coherent with the content of the section. More contexts need to be added to allow the reader to understand how it fits into the bigger picture.

**AWS Elastic Beanstalk: Streamlined application deployment**

On page 23, its said “Beanstalk…. supports various programming languages, including Java, .NET, PHP, Node.js, Python, Ruby, Go, and **Docker**”.

**Docker** is not a programming language. I would make more sense to remove it from the list.

On page 24, besides the support for blue-green deployments, it would be also good to add “Canary Deployments” as one of the great features of Beanstalk.

**Realizing the potential of AWS Elastic Beanstalk**

In the Figure 2.14 on page 26, Tomcat should not be on top of Apache http server. Putting it on top means that Tomcat runs on top of Apache, which is not the case. You may consider placing them side by side to show that the Application can run on either Apache http server (web) or Tomcat (non-web).

Application

Tomcat

Apache

Linux

**Unraveling the layers of AWS Fargate**

On page 29, the following sentence is redundant because it is also replicated in the paragraph before: “As we journey further into this chapter, we will explore AWS Fargate in greater depth,

unraveling advanced configurations, best practices, and real-world case studies”.

**AWS Lambda**

On page 29, the Figure 2.17 seems to be off-topic because it has nothing to do with the introduction to Lambda in the paragraph above it.

On page 30 it is said: “Lambda….support a myriad of **programming languages**, including Python, **Node.js**, Java, and more”.

Node.js is not a programming language. It’s a runtime.

**Conclusion**

On page 41, it says: “….cloud simulation with AWS SimSpace Weaver were covered…”.

This may not be correct because in the whole chapter there is no section dedicated to SimSpace.

**GENERAL REMARKS**

At the end of nearly all the sections, the following promise was made:

“As we embark on this chapter's journey, our exploration of [service name] will extend beyond

surface-level insights, delving into advanced configurations, best practices, and real-world

case studies.

However, as the current chapter unfolded, I didn’t see any section where:

* The exploration of a respective service was extended beyond surce-level insights
* Delved into advanced configurations
* Delved into best practices
* Presented real-world case studies.

Thus, because these promises where not fulfilled in this chapter, it will make sense to remove that specific sentence form all the sections.

But if there is a plan to fulfil them in the upcoming chapters, then its to say “in the upcoming chapters” instead of “this chapter”.