

# **BOOTCAMP ARQUITECTURA EN LA NUBE**

**EXPLORADOR - Módulo 1**



# Contextualización de mis aprendizajes

In today's rapidly evolving digital landscape, where the demand for scalability, flexibility, and resilience is paramount, understanding cloud native patterns is essential for designing change-tolerant software. Cloud native architecture leverages the scalability and elasticity of cloud computing environments, enabling organizations to build and deploy applications that can adapt to changing business requirements and fluctuating workloads. By embracing microservices, containers, and orchestration tools like Kubernetes, developers can create modular, loosely coupled systems that facilitate continuous integration and continuous delivery (CI/CD), ensuring rapid deployment and iteration. Moreover, cloud native patterns prioritize fault tolerance, allowing applications to gracefully handle failures and maintain functionality even in the face of disruptions. Therefore, mastering these patterns is crucial for organizations seeking to leverage the full potential of cloud technologies and stay competitive in today's dynamic marketplace.



## Objetivo general

### UNIDAD X

- Provide participants with a comprehensive understanding of cloud native patterns and their role in designing change-tolerant software solutions.
- Gain the skills necessary to architect, develop, and deploy resilient applications in cloud computing environments.

### Competencias a desarrollar

- Linguistic competence.

- **Linguistic Competence:**

Learners can enhance their ability to understand and use technical terminology related to cloud computing, software architecture, and distributed systems. They will develop proficiency in expressing concepts, principles, and best practices relevant to cloud native patterns in written and verbal communication.



## Competencias a desarrollar

- Pragmatic competence.
- Sociolinguistic competence.

- **Pragmatic Competence:** Learners will develop the practical skills necessary to apply cloud native patterns effectively in real-world scenarios. This includes understanding the context-specific requirements of different cloud environments, selecting appropriate patterns to address specific design challenges, and implementing solutions that optimize performance, scalability, and reliability.
- **Sociolinguistic Competence:** Learners will acquire the ability to communicate and collaborate effectively within multidisciplinary teams involved in the development and deployment of cloud-native software solutions. They will understand the social and cultural factors that influence decision-making processes, project management methodologies, and stakeholder interactions within the context of cloud computing projects.

## Activación de saberes previos

Tiempo de ejecución: 4 horas




### PLANTEAMIENTO DE LA SESIÓN

### MATERIALES

- 1) Socialize the technology idiom of the day.
- 2) Discussion questions about cloud Native Patterns.
- 3) Watch the video "But What Is Cloud Native Really All About?"
- 4) Socialize vocabulary about the reading: "What is cloud-native? "
- 5) Reading: "What is cloud-native?"
- 6) True/False questions about the previous reading.

- Video "But What Is Cloud Native Really All About?"
- Reading: "What is cloud-native?"

## Activación de saberes previos

Texto... 	
PLANTEAMIENTO DE LA SESIÓN	MATERIALES
7) Socialize vocabulary about the reading text: "5 Cloud Native Architecture Patterns for 2024"	
8) Reading: "5 Cloud Native Architecture Patterns for 2024"	<ul style="list-style-type: none"><li>• Reading: "5 Cloud Native Architecture Patterns for 2024"</li></ul>
9) Multiple choice activity based on the previous reading text.	
10) Socialize vocabulary about the reading text: "Cloud Native: Principles, Applications, and Challenges"	<ul style="list-style-type: none"><li>• Reading: "Cloud Native: Principles, Applications, and Challenges"</li></ul>
11) Reading: "Cloud Native: Principles, Applications, and Challenges"	
12) Game about the previous reading text (multiple-choice questions)	
13) Activity: matching sentence definition.	



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