

# Serverless Architecture

CSSE6400

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## Oxymoron 1. Serverless

Logic running on someone else's server.

### Definition 1. Backend as a Service (BaaS)

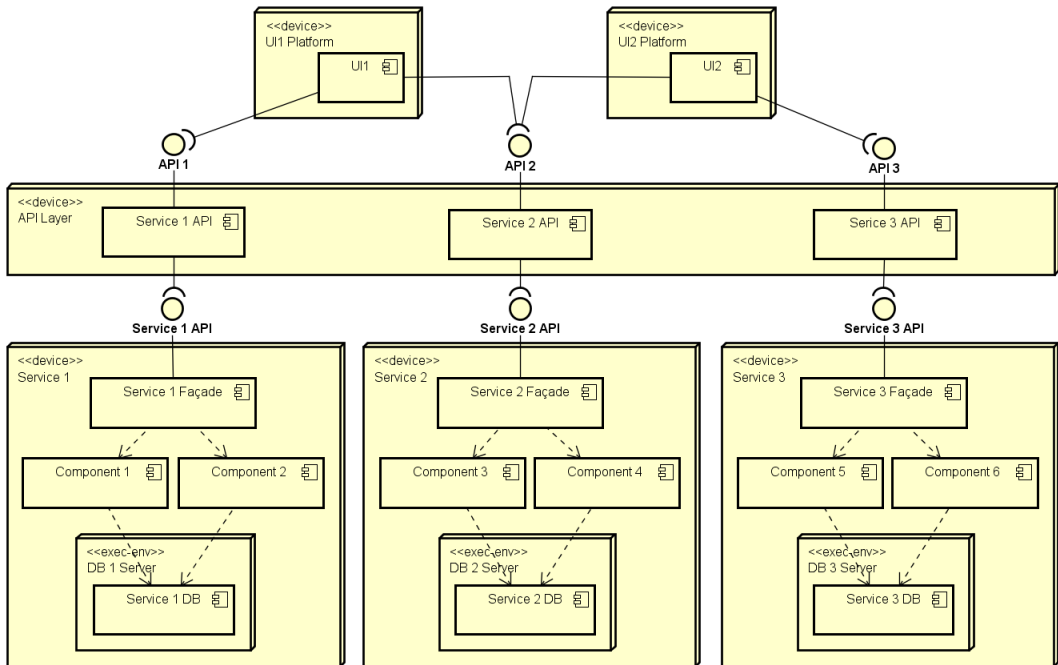
Cloud-hosted applications or services that deliver functionality used by an application front-end.

## Definition 2. Functions as a Service (FaaS)

Application logic that is triggered by an event and runs in a transient, stateless compute node.

### Definition 3. Serverless Architecture

- a) Rich client layer that uses BaaS to deliver functionality.
- b) Functionality running in a FaaS environment and used by other services.



### Corollary 1. No Reuse

Services do not reuse components from other services, to avoid dependencies.

## Pros & Cons

**Modularity**



**Extensibility**



**Reliability**



**Interoperability**



**Scalability**



**Security**



**Deployability**



**Testability**



**Simplicity**

