

Serverless & FaaS

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Serverless Computing

- ❖ **Serverless computing** is an execution model where
 - the cloud provider executes a piece of code by dynamically allocating the resources,
 - only charging for the resources used to run the code.
- ❖ The code is typically run inside **stateless containers** that can be triggered by a variety of events
 - including http requests, database events, queuing services, monitoring alerts, file uploads, scheduled events (cron jobs).
- ❖ The code that is sent to the cloud provider for execution is usually in the form of a function.
 - Hence serverless is sometimes referred to as “**Functions as a Service**” or “FaaS”.

In this module, you should read and investigate autonomously about this subject.

Recommended readings

❖ Serverless Computing

- <https://martinfowler.com/articles/serverless.html>
- <https://arxiv.org/pdf/1706.03178.pdf>
- <https://gojko.net/2019/02/06/badass-integrations.html>
- <https://tudip.com/blog-post/what-is-serverless-computing/>

❖ Functions as a Service (FaaS)

- [Microsoft/Azure](#)
- [AWS Lambda](#)
- [Google Cloud](#)
- [IBM Cloud](#)

❖ Spring

- <http://cloud.spring.io/spring-cloud-function/>

❖ Open source

- <https://openwhisk.apache.org>