

01 Aspects to consider when comparing edge and cloud computing benefits.

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computing helps to reduce traffic to the cloud as well as cloud storage and cloud operations, however, the providers of the big public clouds also have strong sustainability strategies [4].

- Availability/Reliability: The edge can operate even during times of unavailability of cloud services.
- Security/Privacy: On the edge, it is usually easier to protect applications and data. Having a secured edge gateway channeling the communication to the cloud, the attack surface is smaller, compared to a system with many devices establishing their own connections.
- Costs: Depending on the application, edge resources can be less expensive than cloud resources. Often, edge computing adds to a higher CAPEX, but has a lower OPEX if used in a continuous monitoring case.

All in all, both edge computing and cloud computing have their benefits and there are always trade-offs when deciding between these deployment alternatives for a specific application. Edge computing is not to be understood as an alter-

Edge computing is seen as a promising technology in many areas nowadays.

native to cloud computing but as a complement. Industry investment in edge computing has grown a lot within recent years, including efforts for industrial edge computing reference architectures and standardization eg, [5,6], accordingly, edge computing is well on its way to becoming a leading digital technology. •

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