Cloud services

# Introduction

This document is based on looking into the top 2 largest cloud service providers (Amazon AWS, Microsoft Azure) to what is important for the Care web application as cloud service provider.

The provider will be chosen based on different criteria such as ease of use, manageability, pricing, security and scalability.

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## Ease of use

### Aws

* Recommended for newcomer and people who are unfamiliar with cloud platforms.
* Feature-rich, straightforward dashboard.
* Comprehensive documentation.
* Handling users and access is a bit complex.

### Azure

* Adding users and access is maintained in a single directory.
* Lack of documentation and recommendations.

### Conclusion

To conclude, Aws is the winner for ease of use, for the reason that the service is recommended for people unfamiliar with cloud platforms such as myself and the extensive documentation they provide.

## Cloud security

### AWS

Aws is one of the most mature cloud providers with extensive documentation, knowledge and trained experts.

Aws list of infrastructure security:

* Security development lifecycle (SDL) - A set of practices that “help developers build more secure software by reducing the number and severity of vulnerabilities in software, while reducing development cost.”
* Intrusion and DoS detection.
* Network access control

### Azure

Azure can’t compare to AWS and is outperformed by the service regarding security. The reason to why azure is mostly used, is that many companies have a relationship with Microsoft.

Azure critical security points:

* Security development lifecycle (SDL) - A set of practices that “help developers build more secure software by reducing the number and severity of vulnerabilities in software, while reducing development cost.”
* Intrusion and DoS detection.
* Network access control

### Conclusion

When it comes to security AWS is better in that regards with extensive documentation.

## Costs

### Aws

Aws offers a dedicated cost calculator to make pricing factor a lot easier to understand. Further, azure offers on-demand pricing.

AWS

### Azure

azure

**AWS:** It offers a dedicated [**cost calculator**](https://calculator.aws/#/) to make the pricing factor a lot easier to understand, but we strongly recommend double-checking the final price before choosing because of different types of taxes and charges.

**Microsoft Azure:** Azure's pricing is a lot easier to understand. There's a billing section on its dashboard where you can see everything. You can also check out [**Azure's pricing calculator**](https://azure.microsoft.com/en-gb/pricing/calculator/) to determine how much it costs to use its cloud-based services.

So, overall, if you're looking for a service that's easy to use and doesn't break the bank, you should go with Google Cloud. On the other hand, if pricing is not a barrier to your limits, AWS is the best platform to invest in.

Request methods:

* **Azure** can be requested through [Fontys service portal](https://selfservice.app.fhict.nl/).
* for **AWS,** you can subscribe for an educational account at [AWS Educate](https://aws.amazon.com/education/awseducate/)

# Criteria overview

selection criteria

|  |  |  |
| --- | --- | --- |
|  | Azure | AWS |
| Ease of use |  |  |
| Pricing |  |  |
| Security |  |  |

# Tutorials

AWS conclusion

Azure conclusion

# Conclusion

# Sources

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