



Continuous Cloud Assurance

Cloudditor



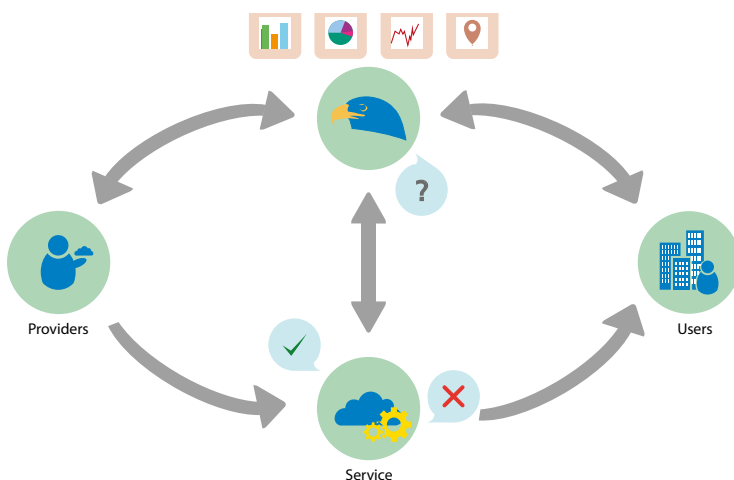
Using the cloud saves users time and money. With modern cloud services, even complex applications can be set up easily and quickly — which is why so many innovative businesses choose this path as a way to remain competitive and successful.

However, the cloud also brings an added layer of complexity: Maintaining control over abstract cloud resources is challenging and complex. Because of this, small and medium-sized businesses in particular often rely on compliance tools to conquer any cloud-related challenges.

Often, important questions like “Is my application protected against attacks in the cloud?” or “Does a service behave as promised in the SLA?” do not have clear answers. This is where the Cloudditor — an assurance tool that automatically poses critical questions to your products and applications and precisely evaluates the results — comes in. It carries out automated tests on your cloud services, before storing and visualizing the results so that they can be processed for a certification audit, for example.

Customized tests for cloud services

The Cloudditor checks requirements for cloud-based services and applications: Customized tests are performed continuously. This means that precise statements can be made with a high degree of accuracy. The results are available immediately after test completion, which allows for a quick response time for any identified deviations. The Cloudditor therefore offers added value for both providers and users of cloud services.



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Do you provide cloud services?

With the Clouditor, you can continuously check and verify that your cloud services meet the agreed security or compliance requirements, e.g., those set out in an SLA. This creates security, trust and transparency, improves client relations and minimizes your business risk. The Clouditor can be seamlessly integrated into existing business processes: The existing infrastructure does not need to be changed.

For example, the Clouditor checks typical requirements imposed by security guidelines, such as:

- correct configuration of firewalls and security groups
- secure connection, in particular correct TLS configuration
- no use of software with known weaknesses
- secure user and role management in the cloud
- compliance with the guaranteed availability of a service
- geographical location of a service.

Do you use cloud services in your company?

With the Clouditor, you can continuously check whether the cloud services your company uses meet security or compliance requirements. Regardless of the service model used — SaaS, PaaS or IaaS — the Clouditor creates transparency and thus helps to identify business risks at an early stage. The information from the Clouditor can be added to ISMS tools with the aim of providing application-specific security information.

As such, you can use the Clouditor to verify compliance with the following requirements:

- compliance with the service availability guaranteed to you
- geographical location of a service.
- expected behavior of a service
- use of communication encryption, e.g., TLS
- no use of software with known weaknesses, e.g., such as that in web applications and Linux systems.

About us

The Fraunhofer Institute for Applied and Integrated Security AISEC is considered one of the leading international research institutions with regard to applied research in the field of IT security. More than 200 highly qualified employees work to develop customized security concepts and solutions for both commercial businesses and the public sector in order to significantly improve the overall competitiveness of customers and partners. Among these are solutions for greater data security as well as effective cybercrime protection to prevent industrial espionage and sabotage attacks.

The range of expertise spans from embedded and hardware security, automotive and mobile security all the way to security solutions for industry and automation. Fraunhofer AISEC also makes it possible to assess the security of networked and embedded systems, hardware and software products as well as web-based systems and cloud services at its modern test labs.