

4 Ways Cloud Computing Facilitates Digital Transformation in Government

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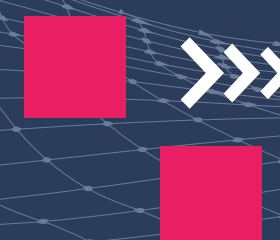


Cloud computing offers greater flexibility than traditional IT infrastructures.

Government agencies can choose how far they will optimise their solutions when migrating to the cloud. They could migrate their existing software to Infrastructure as a Service (IaaS). On the other end of the spectrum, they could optimise bespoke software to operate using a Function as a Service (FaaS).

FaaS allows them to only pay for processing time and data usage without having to worry about any of the underlying hardware, operating system, or additional software capabilities. Cloud computing provides the ability to migrate to either of these options or several intermediate maturity points.

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Cloud computing strengthens security measures and data protection.

The top government cloud providers have made significant investments in security and infrastructure protection. These controls align with the Cybersecurity Framework's five Functions—which are to Identify, Protect, Detect, Respond, and Recover from cybersecurity risks.

For enhanced security and control, some government agencies utilise private cloud services rather than public cloud services. Another viable option is the hybrid model, which utilises a combination of private and public cloud services, as well as local systems, depending on the organisation's needs.





Cloud computing helps governments respond more successfully to the changing needs of citizens and businesses.

Cloud computing helps governments respond with greater agility to shifts in computing capacity needs—such as requests for augmented services from citizens and updated data storage requirements.

Tax departments could also implement cloud-based solutions that automatically scale to changing system requirements, such as the departments' ability to process peak loads in the lead up to tax return deadlines.





Cloud computing improves the public sector's resilience during emergencies.

A recent example is the ongoing COVID-19 pandemic. China's Ministry of Education was able to set up a nationwide cloud-based education platform in record time. This allowed students to seamlessly shift to distance learning during the lockdowns.

Cloud computing also boosts government resilience and shields disaster recovery services from outages stemming from natural and manmade disasters.

