

Case Study: GDS (PSN as a Service)

When the Government Digital Service (GDS) required flexible connectivity to the Public Service Network (PSN) for a specific application they chose to use Cloud Fundamental's PSN-as-a-Service platform for fast and secure connectivity.

Client

Government Digital Service (GDS)

Specific Challenge

To enable an application to be migrated to AWS whilst maintaining connectivity to other services running on the PSN.

Solution Summary

Provide secure outbound connectivity for the application running within AWS to access data services on the PSN.

Outcome

A flexible, scalable, secure and cost effective gateway to the Public Services Network.



Public Services Network

The **Public Services Network (PSN)** is the UK government's high-performance network, which helps public sector organisations work together, reduce duplication and share resources.

It unified the provision of network infrastructure across the United Kingdom public sector into an interconnected "network of networks" to increase efficiency and reduce overall public expenditure.

Due to the nature of data which flows through the PSN, there are strict controls around who can connect to the network. Organisations connecting to the PSN require a Compliance Certificate which indicates that they meet the requirements of the network. The application process for a Compliance Certificate includes completing a Code of Connection (CoCo) and undertaking an independent IT Health Check (ITHC)

The Requirement

GDS wished to migrate an application from an existing hosting provider to AWS to be able to take advantage of the elasticity, flexibility and scalability of the AWS platform.

The migrated application required access to data services on the PSN, though the volume and throughput of the data was to be low.

The time and effort required by GDS to establish the connectivity, supporting infrastructure, accreditation and management required for dedicated PSN connection meant that the application migration would suffer significant delays as well as increased costs.

The Challenge

GDS achieving the required accreditation to be able to connect to the Cloud Fundamental PSNaaS.





Solution Considerations

When designing the PSN-as-a-Service (PSNaaS) solution for use cases such as GDS's, Cloud Fundamental addressed the following considerations;

- **Secure and accredited**

Connections to the PSN must meet the requirements of the network.

Our PSNaaS solution is already accredited for use, however, GDS would need to achieve accreditation for their environment before connectivity.

- **Traffic volumes**

Initially the potential traffic volumes and usage levels were unknown, as the solution is pay-as-you-use, the usage costs were also unknown.

- **Monitoring**

Though the services is extensively monitored by Cloud Fundamental, GDS also required monitoring data to be provided.

- **Budgeting and billing**

For budgeting purposes, GDS required a figure to use for their planning, however, this didn't fit with the cloud pay-per-use model.

This consideration is not unique to GDS, it is something which occurs as organisations transition to the cloud payment model where it initially is difficult to plan for costs without knowing exact usage.

Solution

Cloud Fundamental offer PSN-as-a-Service (PSNaaS), an approach which meets GDS's low volume and flexibility requirements by negating the need to agree a minimum term or link size. The infrastructure that supports the link is maintained and monitored by Cloud Fundamental and usage is paid for by the data used, not as a fixed amount. Spikes in usage are easily accommodated, and core hours support is included in the data (per GB) rate.

Solution Implementation

The Cloud Fundamental PSNaaS solution is already pre-accredited, however, in order to utilise the PSNaaS solution, GDS had to achieve accreditation and obtain a Compliance Certificate before the usage. The on-boarding process was straightforward requiring only an exchange of networking information between GDS and Cloud Fundamental.

An Established Team

Working closely with Century Link and AWS, we can offer a team with a wealth of knowledge and a secure and stable solution.

Amazon Web Services

AWS has more than 15 years' experience in delivering global infrastructure on a large scale. In 2017, they launched a UK-based Region with the ability to connect to the PSN for central Government.

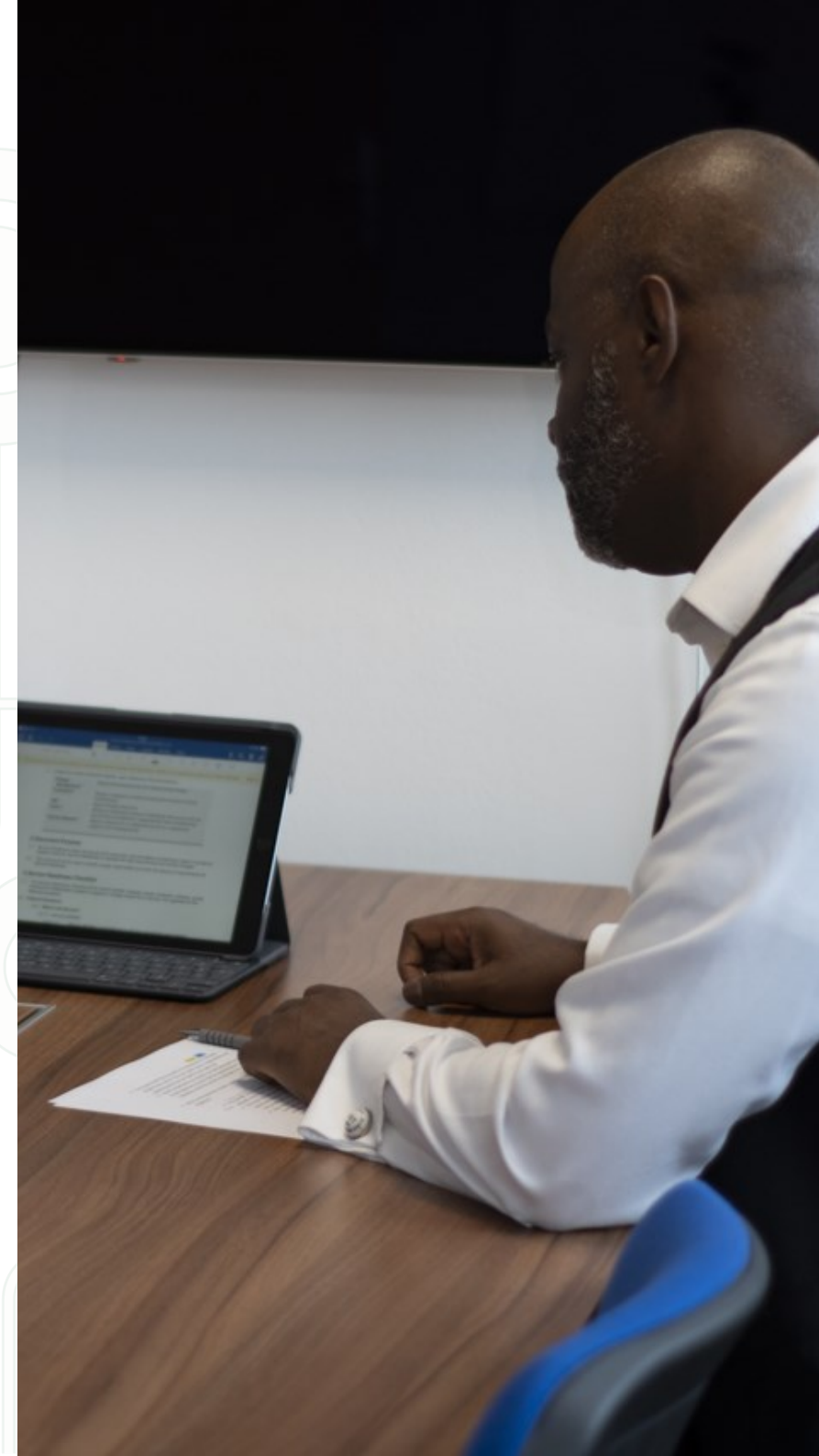
Cloud Fundamental with their experience of AWS and traditional hosting models within UK Government, became an AWS certified partner – cementing their place as a UK leader in cloud migration within secure environments.

Solution Benefits

- Pre-provisioned PSN connectivity
- No long term commitment
- Ability to adjust capacity on demand with 'Pay as you go' pricing
- Solution approved for connection to the PSN
- A reduced time to market and agility

"Some quotation would go here"

**Company Representative,
Company Name**



About Cloud Fundamental

Cloud Fundamental's reputation and continued success is the result of unrivalled technical expertise in the design and implementation of secure solutions in both the private and public sector. Their technical team has a wealth of experience honed over several decades and are recognized for their successful implementations and unsurpassed service levels.

As an AWS Certified Partner, they specialise in delivering secure, public cloud deployments - from small scale cloud pilots to phased mass migration. Able to work to strict timeframes and within tight budgets, their services range from initial technical guidance and advice to end delivery of full cloud migrations.

Dedication, commitment and flexibility are the cornerstone of Cloud Fundamental's approach, ensuring they are the preferred business partner on an increasing number of cloud migrations..

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