

A woman with long brown hair, wearing a light-colored blazer over a dark top, is sitting at a wooden desk in a meeting room. She is looking at a laptop screen with her hands clasped. The desk is cluttered with various items: a glass of orange juice, a calculator, a pen holder with pens, a tablet on a stand, and some papers. In the background, there is a whiteboard covered in handwritten notes and diagrams. A large blue and purple gradient circle is overlaid on the left side of the image, containing the text.

**How a Fortune 500
company ensured
data security on
the cloud**

Client background

Client: A Fortune 500 company

Industry: Cloud computing, Data Management

Products: Data services and data storage devices

Geography or areas of operations:
Worldwide

Number of employees: Over 10,000

Challenge

Today, most data backup solution providers are making cloud the secondary storage for backup, and provide subscription-based backup storage solutions. The client, a data management services provider, had an on premise data backup solution and wanted to move data from the primary storage device to a secondary storage device. The client was looking for a partner who could help them launch a cloud data backup solution delivered as a SaaS model with anywhere-anytime data backup management for its end customers.

The key requirements were:

- Data Protection as-a-Service (DPaaS) application designed, developed and hosted in a highly available, scalable and secured environment.
- A hybrid cloud model which connects storage devices on premise to public cloud, implementing a secure and scalable device for cloud communication, without any change to the client's DC network environment.
- A one-touch auto-discovery feature for the application to automatically gather on premise storage device and topologies.
- A highly user intuitive UX that helps an IT generalist to deploy and use the backup solution without any cloud knowledge.

Built a highly intuitive, scalable, secure, and portable cloud-agnostic data backup solution leveraging Wipro's 'Data Protection-as-a-Service' solution delivered on cloud

Solution

Wipro leveraged a two-phased approach for enabling a Data Protection platform on cloud for the client. The first phase was a cloud application launched from AWS MarketPlace and the second phase was a SaaS model hosted on AWS. The Data Protection platform was developed as a highly available and scalable service leveraging cloud-native services, while keeping the design completely cloud-neutral.



AWS services like S3 and SQS were used in combination to create a low latency **and**, secure message passing infrastructure for on-premise to cloud (hybrid cloud) communication. AWS services EBS, availability zones, and application load balancer were used to provide high availability across regions and on-demand scaling.

The data protection platform was developed leveraging micro-services architecture using Java Spring Boot, deployed on docker containers. Feature-rich UI implementation was done using Angular JS. The cloud backup data **was** stored in S3 bucket and, configuration and metadata was stored in Elastic Search deployed in HA (high availability) environment across availability zones. The other key aspects of the solution include:

- Option for a cloud marketplace and a hosted subscription-based solution
- Core modules in cloud-agnostic way to support multi-cloud portability

- Cloud-hosted backup catalog with scale that support search of **1 billion** records with sub second latency and HA across all zones.

Business impact

The cloud data backup solution delivered as a SaaS model enabled data backup management from anywhere, anytime for **their** end customers through a highly scalable, highly available and a secure cloud environment. The DPaaS solution orchestrated from a hybrid cloud helped the client gain a competitive edge by providing:



A cost effective alternative for cloud backup adoption without deploying other third-party solutions.



High quality solution for native cloud backup solution on their storage hardware.



“Wipro delivered a highly scalable and portable cloud-agnostic data backup solution with the right balance of cloud native and cloud neutral architecture. The solution enabled better customer experience with intuitive workflows and UI. With a clear roadmap and our ‘business first’ approach we enabled the client to embark on a cloud adoption journey.”

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