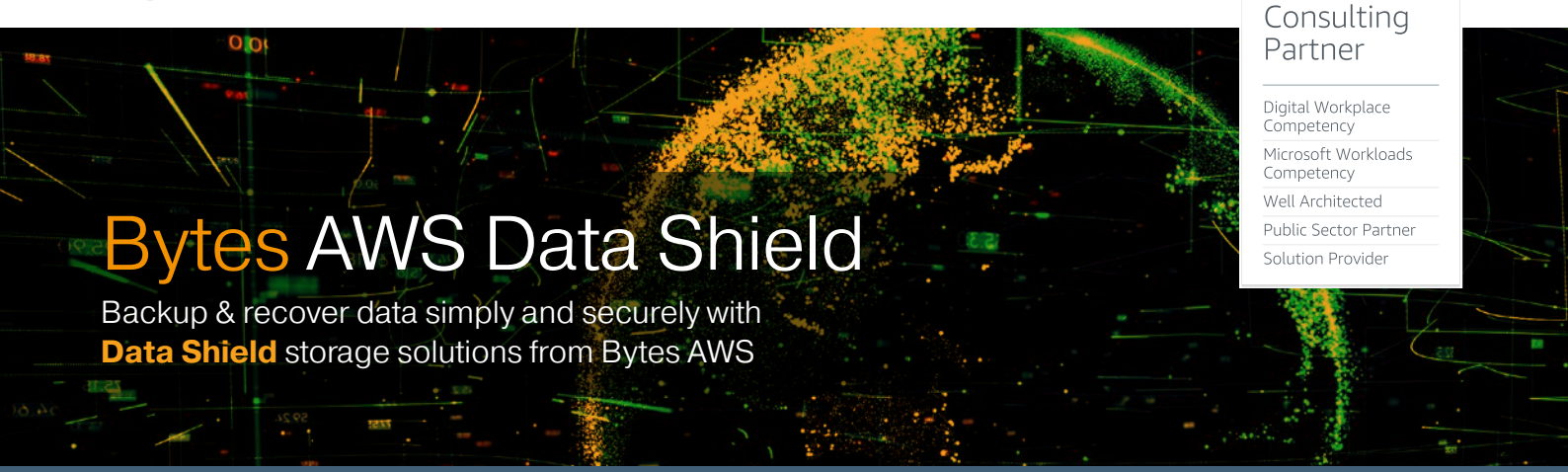
BYTES | Cloud Services

aws partner network

Advanced Consulting Partner

- Digital Workplace Competency
- Microsoft Workloads Competency
- Well Architected
- Public Sector Partner
- Solution Provider



Bytes AWS Data Shield

Backup & recover data simply and securely with **Data Shield** storage solutions from Bytes AWS

Backup and recovery are critical in today's prolific Ransomware attack environments, with Bytes & AWS it has never been so easy to protect your business.

Bytes Cloud Services can now offer its customers the ability to quickly spin up and utilise AWS resources for their backup and recovery needs in one easy templated solution. The Data Shield solution was developed for customers wanting to quickly backup their critical data into AWS Native or using one of our partner technologies.

Working with AWS and our Partners, Veeam, Rubrik & Veritas we have developed a solution to allow customers with very little to no knowledge of AWS to spin up AWS storage at a low cost but with a high degree of resiliency and security.

Our Architects will carry out an audit of your requirements and recommend the solution that best fits your needs. The following aspects will be covered with any solution we deploy depending on your businesses experience with AWS:

- Create a new VPC (this is your private space in AWS Cloud)
- Define public and private subnets, internet gateway, route tables, security groups and other networking configuration needed in AWS cloud
- Create base golden image (AMI - Amazon Machine Image) for your virtual machines/ backup appliance in AWS
- Provision S3 buckets that will store your backups and assets that you need in the cloud
- Apply any necessary permission, encryption, versioning, storage class, monitoring and alerts
- Setup "Object Locking" mechanism depending on the business security requirements on your s3 bucket. Customers use S3 Object Lock to store objects using a write-once-read-many (WORM) model

AWS is designed to deliver on a customer **promise of 99.999999999% durability** of objects stored in all Amazon S3 storage classes, including Amazon S3 Glacier and Amazon S3 Glacier Deep Archive.

In theory you can expect a loss of **one object of 10 million** stored in AWS, **every 10,000 years.**

On-Premises Backup	AWS-Powered Backup
Wait weeks or months for resources	Scale IT resource on-demand
Store backups with limited durability	Store backups with 11 9's of durability
Operate with in-house security	Operate with global-scale security
Leave backup data idle	Run ML and analytics on backup data

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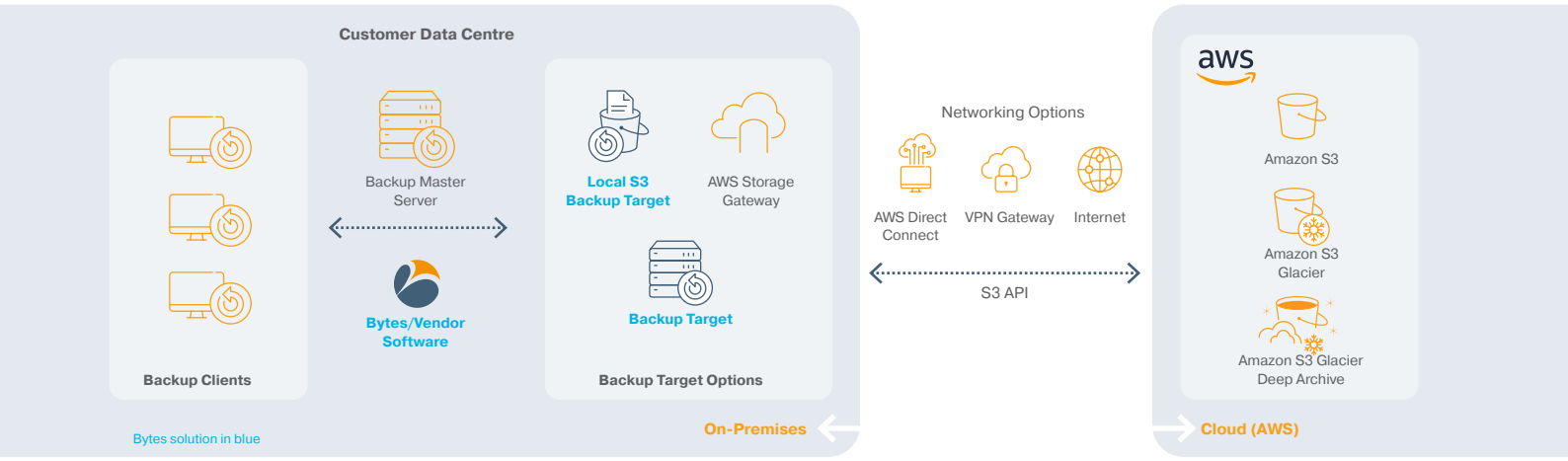
Solution Overviews

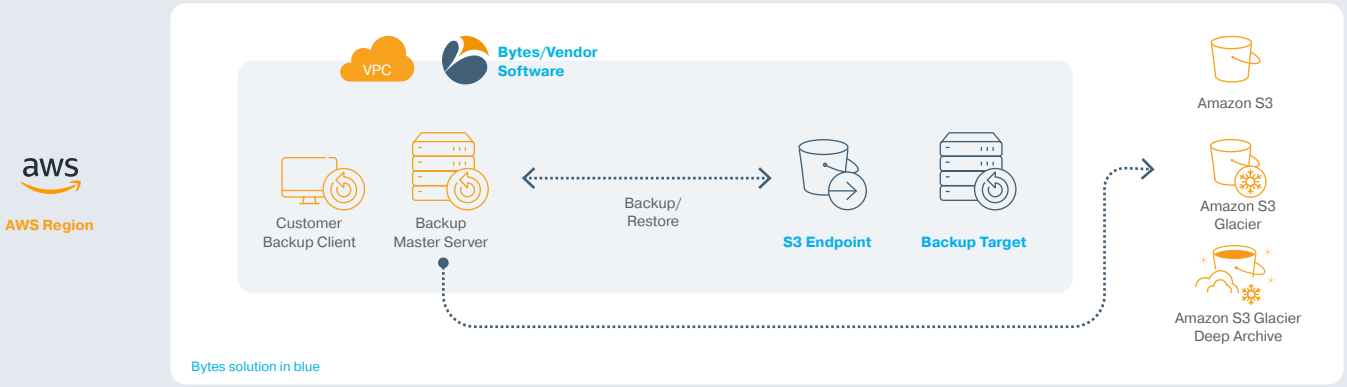
Hybrid-Cloud Backup Architecture

You can use a gateway service such as AWS Storage Gateway to back up your on-premises data to Amazon S3, Amazon S3 Glacier, and Amazon S3 Glacier Deep Archive, without changing your backup workflows and with the added benefits of local caching and data compression. Depending on your on-premises backup software capabilities, you can also use built-in cloud connectors in the backup software to send backups to AWS for short- and long-term storage. During a restore, backup data is pulled back to the on-premises environment and reinstated for production.



Cloud-Native Backup Architecture

When your backup software, engines, servers, data, and storage are hosted on AWS, all these resources automatically scale to demand. There are no external resources required and customers can deploy solutions supported by the AWS Partner Network (APN) if collaborating with a third-party is preferred.
Customers can use the Amazon EBS snapshot feature to back up and protect databases and file systems that are running on AWS' compute service Amazon Elastic Compute Cloud (Amazon EC2).



Want to know more about our AWS Data Shield storage solutions? Get in touch:
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or visit: bytes.co.uk/cloud/amazon-web-services/Data-Shield

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