

Our Cloud Services

ASSESS DISCOVERY MOBILISE MIGRATE **MODERNISE**

Modernisation is the natural next step from migration. By helping you drive down costs, become more agile and flexible and generally build for the future, modernising can give you an edge over your competitors. It can even happen as part of your cloud migration, if you have a workload that's better placed to be rebuilt (Refactored) in a modern state in AWS we can investigate this.

Modernising with Bytes allows you to move away from traditional expensive database technologies, old fashioned operating system (OS) approaches and monolithic applications, and instead adopt more agile computing technologies.

Funded assessments

Our first step at the Modernise stage is to ascertain which of your current workloads, applications or other assets are suitable for modernisation and would bring you cost and efficiency benefits.

There are various funding programmes available for this assessment stage. We will look to obtain whichever is right for you. In 2021 alone, we secured over \$1.2m of funding for our customers.

Modernisation can be total or partial. It can also be a standalone project – for example, you may have already decided that you want a certain application that's running on old technology to be modernised.

The assessment will investigate the art of the possible and work towards a design of what the workload or loads would look like in a modernised state in AWS.

Bytes – your Advanced Consulting Partner for AWS



100s of AWS customers – around 130 migrations and new builds in the last 12 months alone



Access to AWS partner funding programs – over \$1.2m secured in 2021



ISO 27001 certified – the international information security standard



Authorised Well-Architected Framework partner of AWS

For more information, please email tellmemore@bytes.co.uk or call 01372 418500.

For details of other steps on your migration journey, see our other datasheets: Assess, Discovery, Mobilise and Migrate.

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Far-reaching possibilities



Modernisation offers benefits that go far beyond the simple replacement of one technology with a better one.

For example, the exceptionally wide range of tools and applications within AWS that can make for more efficient DevOps. In particular, it enables easier integration, while also simplifying the updates and testing of new applications versions.



Modernisation additionally means you'll be able to streamline teams as well as technologies for greater efficiency and agility in a cost-driven market.



Moving to micro services saves on costs and human resources, as well as being more environmentally friendly. Servers are no longer sitting idle, wasting resources, and increasing your carbon footprint.

Modernisation candidates for reducing costs

Any of these will be considered for funding and are likely to help you to operate more efficiently and give your business more agility:

- Moving from Windows Server to Linux Server
- Shifting from SQL Server on Windows EC2 to SQL Server on Linux
- Containerising .NET applications to Linux containers
- Transferring from SQL Server on Windows EC2 or SQL Server on RDS to Aurora, MySQL, Postgres, etc
- Containerising .NET applications to Linux containers
- Re-architecting a .NET application to Serverless or to open source (on-premises or app running in AWS)
- Rewriting a legacy on-premise .NET application without using Windows Server or SQL Server
- Re-architecting a .NET application to .NET Core

How you'll benefit

AGILITY

Modernisation is where you should see major cost savings thanks to greater integration, agility and flexibility.

ASSESS

Funded assessments mean you can be sure you're making the right choices – and paying as little as possible.

FOCUS

While modernisation takes place, we do all we can to minimise any disruption to your core business, so your teams can focus on day-to-day operations.

IMPROVE

You will access the expertise of an AWS-certified Advanced Consulting Partner. We have successfully delivered modernisations and migrations for hundreds of customers.

INFORMED

As with all we do, we'll keep you informed and involved, providing expert advice and assistance throughout the process for your peace of mind.

SUPPORT

For every workload modernisation, we commit to planting 1,000 trees to support offsetting your carbon footprint.

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Why choose AWS?

- The world's largest cloud platform
- More services, features and functionality than any other platform
- Designed to be the most flexible, secure and resilient platform
- Named by Gartner as a Magic Quadrant Leader for 11 years running
- Most proven operational expertise of any platform
- 2x higher performance for a SQL Server workload than the next largest cloud provider*
- 442% projected 5-year ROI running Windows on AWS**
- Users report 51% lower cost of operations over 5 years***
- Intel and AWS have partnered for 15+ years to develop superlative cloud services

Why choose Intel?

Intel® offers a range of benefits to ensure successful cloud migration:

- **Better performance per cost** – Intel® technologies, including Intel® Xeon® Scalable processors, deliver exceptional performance per cost in AWS cloud instances
- **Hardware-enabled security features**
– Embedded security capabilities all the way down to the silicon help protect workloads on multi-tenant AWS cloud instances. Intel® technologies with hardware-enabled encryption help isolate and protect data at rest, in transit, and in processing
- **The latest technology** – Intel partners closely with AWS to deploy the latest technologies and software with high levels of optimization. You'll benefit from world-class cloud architecture, workload-tuned instances, and built-in AI and security accelerators

We will select whichever Amazon EC2 instances (virtual servers for running applications) will benefit from Intel high-performance technology, depending on the workload for your migration. In particular, Intel Xeon scalable processors power the latest Amazon EC2 instances, delivering twice the power of previous-generation processors, and providing more choice and flexibility.

Whatever Intel technology we choose, we will test it in the pilot migration.

For more details on Intel technology and AWS, see aws-intel.com

*When directly testing an R5b.8xlarge instance, according to a 2021 Principled Technologies report.

**According to a 2019 IDC report, "The Business Value of Efficiently Running High-Performance Windows Workloads in AWS Cloud".

***Source: 2018 IDC Report on Creating Business Value with AWS.



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