DLT Solutions and Amazon Web Services

For a seamless, cost-effective migration to the cloud

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The DLT Solutions and Amazon Web Services Advantage

DLT Solutions, a Premier Consulting Partner for Amazon Web Services (AWS), helps public sector and higher education customers securely migrate to the cloud – seamlessly and cost-efficiently.

We provide:

- Expert knowledge and advice to identify appropriate AWS solutions, and to design, implement, and manage the cloud environment that meets your organization’s unique needs
- Managed services and support to ensure continuity and consistency within your environment, as well as AWS billing expertise
- Fast and cost-effective means to procure reliable, cloud-ready AWS solutions via the E&I contract

Available Products

DLT offers an extensive portfolio of Amazon Web Services, including the following primary products:

Compute & Networking

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides resizable compute capacity in the cloud.

- Allows you to obtain and configure capacity with minimal friction
- Provides you with complete control of computing resources
- Reduces time required to obtain and boot new server instances (within minutes)
- Is highly scalable and can be configured to auto-scale as workload requirements grow or shrink

Amazon Work Spaces is a fully managed desktop computing service in the cloud that enables end-users to quickly and easily access their documents, applications and other resources.

- Allows you to easily provision cloud-based desktops at a low cost
- Eliminates the complexity of maintaining, patching, and managing large physical desktop environments
- Supports multiple devices, including laptops and tablets (iPad, Kindle Fire, and Android)

Amazon VPC is a private, isolated section of the AWS Cloud where you can launch AWS resources in a virtual network that you define.

- Gives you complete control over your virtual networking environment
- Allows you to select your own IP address range, create subnets, and configure route tables and network gateways
- Provides the ability to create a connection between your agency’s corporate datacenter and your VPC to leverage the AWS Cloud as an extension of your corporate data center

Storage & Content Delivery

Amazon Simple Storage Service (Amazon S3) is a highly durable and available data storage infrastructure that allows you to store and retrieve any amount of data, at any time, from anywhere on the Web.

- Allows you to write, read, and delete objects containing 1 byte to 5 terabytes of data
- Provides unlimited storage of objects and flexible options for managing data
- Includes authentication mechanisms for ensuring data is kept secure from unauthorized access
Amazon Elastic Block Store (Amazon EBS) provides block level storage volumes for use with Amazon EC2 instances that can be exposed as a device within an instance.

- Is network-attached and persists independently from the life of an instance
- Suitable for applications that require a database, file system, or access to raw block level storage

Amazon Glacier is an extremely low-cost storage service for data archiving and backup.

- Is optimized for data that is infrequently accessed
- Allows you to reliably store large or small amounts of data for as little as $0.01/GB per month
- Requires no upfront capital investment

Amazon CloudFront is a content delivery web service that gives you the ability to deliver dynamic, static, streaming, and interactive content with low latency and high data transfer speeds.

- Uses a network of secure edge locations to lower latency and give you the high, sustained data transfer rates you need
- Allows you to only pay for the content you deliver, without minimum commitments or upfront fees
- Automatically responds as demand increases or decreases without any intervention by you

Amazon DynamoDB is a fast, fully managed NoSQL database service.

- Allows you to store and retrieve any amount of data and serve any level of request traffic
- Offloads the administrative burden of operating distributed database clusters
- Is highly scalable and flexible

Amazon Redshift is a fast, fully managed, petabyte-scale data warehouse service.

- Makes it simple and cost-effective to analyze data using existing business intelligence tools
- Is optimized for datasets ranging from a few hundred gigabytes to a petabyte or more
- Costs less than$1,000/TB per year

Deployment & Management

Amazon CloudWatch provides monitoring for Amazon Web Services (AWS) cloud resources and applications.

- Is a reliable, scalable and flexible monitoring solution
- Allows you to programmatically retrieve data, view graphs, and set alarms to help troubleshoot, spot trends, and take automated action based on the state of the environment
- Enables you to gain system-wide visibility in to resource utilization, application performance, and operational health

AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with popular programming languages including Java, .NET, PHP, Node.js, Python, and Ruby.

- Automatically handles deployment details such as capacity provisioning, load balancing, auto-scaling and application health monitoring
- Allows you to retain full control of the AWS resources powering your applications
- Is a flexible, highly reliable environment
AWS Identity and Access Management (IAM) enables you to securely control access to your AWS services and resources.

- Provides you with the ability to grant unique security credentials to users and groups to specify which AWS service APIs and resources they can access
- Can be customized and integrated with existing identity systems
- Is seamlessly integrated into AWS services and delivers flexible security credential management

AWS GovCloud

AWS GovCloud is an AWS Region for US government agencies and customers that provides cloud solutions designed to address sensitive data requirements and security regulations.

- Addresses specific regulatory and compliance requirements
- Adheres to U.S. International Traffic in Arms Regulations (ITAR)
- Is FedRAMP-compliant
- Is appropriate for all government agencies, contractors, and systems integrators
- Provides FIPS 140-2 validated endpoints

FedRAMP Agency Authority to Operate (ATO)

- AWS has received an Agency Authority to Operate from the U.S. Department of Health and Human Services under the Federal Risk and Authorization Management Program (FedRAMP) at the Moderate impact level.
- With this certification, you can now leverage the AWS environment to quickly and securely move applications and workloads to the cloud, while reducing the need for costly and redundant security authorizations.
- For more information, visit www.dlt.com/FedRAMP-ATO

DLT Cloud Navigator

Cloud computing is often a challenging technology to envision and the same solution doesn't work for every organization. DLT understands the challenges involved with implementing cloud solutions and we partner with leading Infrastructure-as-a-Service (IaaS), Software-as-a-Service (SaaS), Platform-as-a-Service (PaaS), and Cloud Management vendors to provide public sector and higher education customers with a simplified path to the cloud. Our team of experienced engineers has the knowledge and expertise needed to architect, deliver, and manage an AWS cloud environment that fits your unique needs.

The DLT Cloud Solutions team offers end-to-end services in support of the AWS life cycle.

Consulting & Implementation

- **Implementation & Planning Services:** Knowing where to start can sometimes be more challenging than actually getting started. We recognize that while many workloads & IT needs are similar, they are also all unique. With this simple truth in mind, we can draw against a library of architectural and procedural designs tailoring them to your unique needs.
- **Migrations:** Our technical experts will assess your existing on-premises infrastructure and provide a detailed and comprehensive plan for migrating to the AWS Cloud. In addition to developing a migration plan, our team will execute the migration and test the functionality of your system to ensure a proper implementation.
- **Cloud Readiness Assessments:** Our Cloud Readiness Assessments offer a baseline security evaluation of your AWS infrastructure to include penetration testing. Findings are delivered in an easy-to-understand risk and vulnerability report. Based on the results, our technical experts will develop a comprehensive mitigation plan and timeline, and will continue to work with you until risk is minimized.
**Pilots & Proof of Concepts**: Our technical experts will meet with you to better understand your business and technical objectives, and develop a proof of concept for your specific use case. By testing the AWS Cloud in your environment, you can eliminate risk, verify and validate the key elements of your conceptual solution prior to implementation.

**Import & Export at Scale**: Besides value, your data has weight. It’s not easy to catalog, collect, and move data at the same scale at which it’s produced, and at the scale that the Cloud can store it. We have examined this problem from the ground up and developed a white-glove service that is far more flexible than the standard AWS Import/Export service. Data can be received and transferred to a number of different container types from USB to FibreChannel, then manifested and tracked on a per-object basis, enabling a documented chain of custody from end-to-end. Conversion from various formats is also supported, such as tiff to jpg, doc to rtf, doc to pdf, etc.

**Custom Engagements**: We also offers custom engagements to meet the specific needs of our individual customers.

**Managed Services & Support**
DLT provides a 24x7x365 U.S.-citizen, U.S.-soil, ITAR compliant Service Center to support complex case resolution. Our accredited Service Center provides:

- Certified and cleared technical engineers to support AWS cloud platforms
- Monitoring, management and remote assistance for your cloud instance
- Single 1-888 number for all services and product-impact alerts
- Support calls answered by a live person
- Web portal access
- Monitoring of all service activity
- Specialized reporting and analysis

**Training**
As a Premier Consulting Partner for AWS, we can provide the training and support our customers need to get the most out of their cloud environment. We offer a wide range of instructor-led training from basic essentials to more complex concepts such as architecting and developing on the AWS platform. Training classes can also be customized based on individual customer needs. DLT offers the following core training classes:

- AWS Essentials
- Developing on AWS
- Systems Operations on AWS
- Architecting on AWS
- Advanced Operations on AWS