Multicloud solutions for JWCC

Every cloud—one experience:
Benefits of a unified multicloud for DoD and IC

∎ NetApp

Unify the hybrid multicloud

As a Department of Defense (DoD) and Intelligence Community (IC) mission partner, you have a labyrinth of choices about where your data lives and how you manage it. Data can be on premises; in a secure private cloud, such as DISA's Stratus; or in a public GovCloud, such as the Joint Warfighting Cloud Capability (JWCC) with its offering of AWS, Azure, Google Cloud, and Oracle. Most mission partners choose a combination of these options.

Operating in different environments means dealing with different APIs, different ways of managing the data, and different ways of migrating the data through traditional lift-and-shift methods. There's no easy way to see all your data across your on-premises instances and clouds in a single view, much less move that data quickly and seamlessly between those various environments. Every cloud has a different way of managing data and delivers a different user experience, requiring users to navigate a series of cloud silos.

Enable a single user experience

What if you could have the same user experience in any cloud or on-premises environment? Or drag and drop data volumes from one on-premises location or cloud into another to simplify management and provision data in minutes? We call this the evolved cloud—a strategic approach to hybrid multicloud

environments, where cloud is fully integrated into your architecture and operations.

NetApp makes moving, provisioning, and managing easier with a common set of APIs, services, policies, and open architectures that create consistency across clouds and environments. Now you can seamlessly move your data and applications wherever you want and wherever you're authorized.

Eliminate cloud silos

With NetApp® ONTAP® software, a single DISA-APL–approved data operating system that's cloud- and vendor-agnostic, you can build a unified management plane—a common fabric layer—that eliminates cloud silos. ONTAP is widely deployed across the DoD and is already in many end-user-operated on-premises data centers. ONTAP enables bidirectional movement of data among clouds, allowing DoD end users to move data from edge to core to cloud seamlessly. It also offers the ability to move data to different clouds without refactoring, rehydration, or re-encrypting.

This industry-leading innovation lets you migrate existing applications, develop new applications with existing datasets, and place your applications in the optimal spot based on cost, performance, and security considerations.
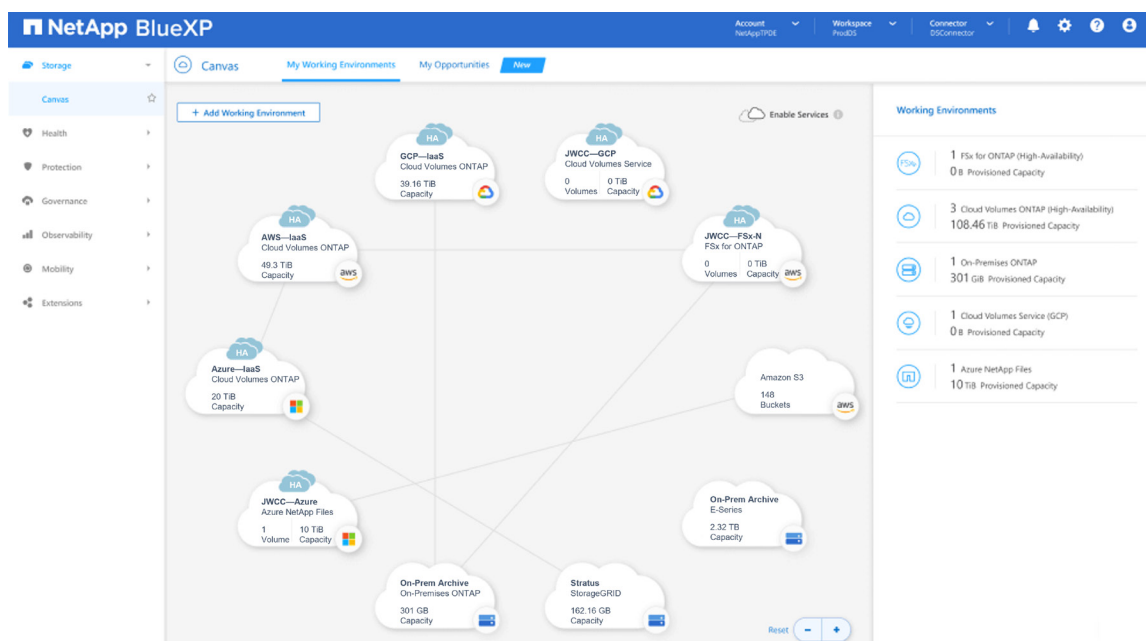

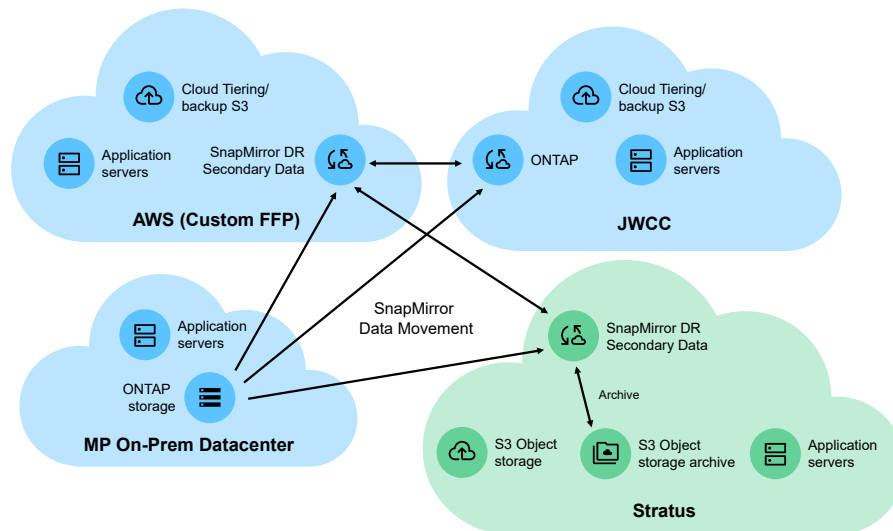Figure 1) DoD biosphere of clouds on the BlueXP canvas.

Figure 2) Replication of applications and cloud data services between environments.

ONTAP is available now in JWCC through Amazon FSx for NetApp ONTAP, and it's also available as a first-party service in both Azure and Google Cloud. ONTAP is in DISA Capacity Services and can be available in various DISA-supported private clouds.

How the common fabric layer works

ONTAP can be managed through the NetApp BlueXP™ unified control plane, which allows you to drag your volumes wherever you want within the DoD biosphere of clouds (Figure 1). Behind the scenes, NetApp SnapMirror® data replication technology easily migrates applications and IL-certified cloud data services between environments (Figure 2).

By abstracting storage, data, and application services, you can enable consistent management across hybrid multicloud environments. NetApp storage efficiency technologies can be used to reduce data requirements on premises and in the cloud. Automated data tiering enables additional savings by moving cold or inactive data a less-expensive secondary tier.

Built-in data protection enables consistent policies and processes for data security, protection, compliance, ransomware prevention, and disaster recovery across your data centers and clouds. The multilayered, data-centric approach of ONTAP goes beyond perimeter security to protect data at the data layer in a Zero Trust cybersecurity environment. This software architecture uses the capabilities built into ONTAP to mitigate cyberattacks and ransomware.

The promise of a unified management plane

What can you do as a mission partner to seize the promise of a unified management plane? Insist that wherever your data goes, it lands in a cloud with NetApp cloud data services. Learn more at bluexp.netapp.com.

About NetApp

In a world full of generalists, NetApp is a specialist. We're focused on one thing, helping your business get the most out of your data. NetApp brings the enterprise-grade data services you rely on into the cloud, and the simple flexibility of cloud into the data center. Our industry-leading solutions work across diverse customer environments and the world's biggest public clouds.

As a cloud-led, data-centric software company, only NetApp can help build your unique data fabric, simplify and connect your cloud, and securely deliver the right data, services and applications to the right people—anytime, anywhere. www.netapp.com

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