

BLUEXP WORKLOAD FACTORY



Intelligently automate, manage, and optimize cloud workloads using Amazon FSx for NetApp ONTAP

The challenge

According to IDC, 84% of organizations operate with hybrid IT infrastructures. Deploying any workload to the cloud is complex and demands a team that's proficient in industry and vendor best practices for ongoing management across various tools. These demands can lead to prolonged planning times, escalated operational costs, inefficiencies due to less-than-optimal designs, and potential delays arising from deployment errors.

The opportunity

NetApp® BlueXP™ workload factory simplifies and streamlines the time-consuming and error-prone process of deploying workloads in the cloud. This complimentary service offers intelligent automation, management, and optimization for workloads using Amazon FSx for NetApp ONTAP.

By implementing vendor and industry best practices in cloud service design, setup, and operation, BlueXP workload factory supports key workloads such as GenAI for artificial intelligence, VMware environments for virtualization, enterprise databases for data management, and builders for easily and quickly creating development workspaces. This service accelerates cloud deployment, resulting in faster planning, efficient launches, enhanced performance, and protection, all while reducing operational costs. With BlueXP workload factory, you can:

- Shorten migration planning from days to hours
- Reduce errors in infrastructure configurations by up to 90%
- Save up to 50% on infrastructure and operational costs

Why BlueXP workload factory

Effectively managing workloads involves continually coordinating numerous tasks across various IT roles. Deployment tasks include evaluating costs, security, scalability, and resilience; planning; provisioning infrastructure services; and transferring workload data. Operational tasks include automation, continuous monitoring and validation, resource optimization during scaling, and tasks related to protecting the workload or workload data. Other common tasks include using backup, recovery, and disaster recovery solutions. These deployments can be time-consuming and error-prone.

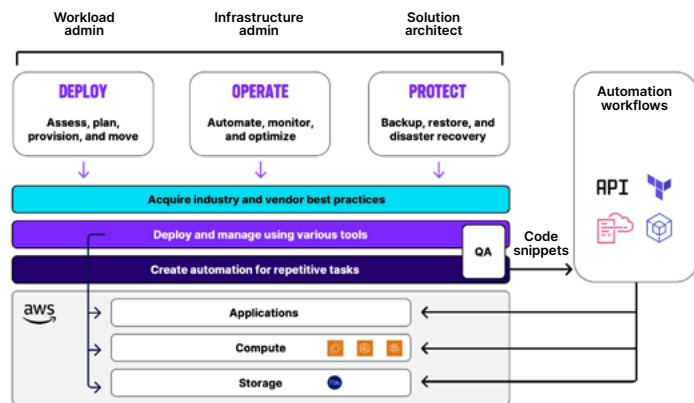


Figure 1: Steps required to deploy a workload.

BlueXP workload factory is a free service available in the BlueXP unified hybrid multicloud control plane and as a standalone offering, simplifying the entire process of deploying workloads. This intelligent automation and management tool optimizes the operation of critical workloads on Amazon FSx for NetApp ONTAP. Autogenerating plans that include infrastructure as code and following industry and vendor best practices for design, setup, and operation means faster planning, smoother deployment, and superior performance, all while reducing operational costs. It starts with the BlueXP console or workload factory home page, where you can select your desired workload.

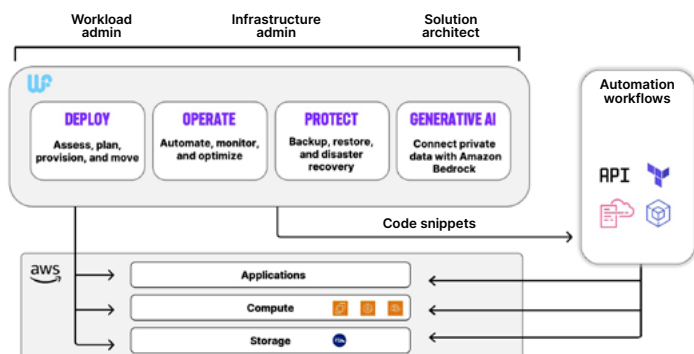


Figure 2: Streamlined workload factory.

KEY BENEFITS

- Automate workload deployment
- Reduce migration errors
- Reduce migration planning time
- Save on operational costs
- Assess current environments
- Employ built-in best practices
- Integrate with current workflows

Where NetApp adds value

Intelligent service for deploying workloads to Amazon FSx for NetApp ONTAP

- Enables users to focus on the desired workload outcomes, not on the operations required to realize these outcomes
- Automatically profiles workload requirements and assesses different resource options for cost, performance, security, and resilience
- Uses built-in best practices to plan, provision, and launch workloads in the cloud

Actively monitor workload resources

- Actively monitors resource use and performance to guide to the optimum scale—whether up, out, or down
- Uses templates to convert repeatable actions into API calls or infrastructure-as-code (IaC) snippets for seamless integration with existing orchestration workflows
- Continuously monitors to make sure workloads are meeting best practices

Save time and cost

- Reduces error-prone manual deployment steps by up to 90%
- Saves an average of 50% on the cost of database deployments
- Reduces migration time from days to hours
- Employs right-size workload resources to meet performance and operational goals

Protect workload data

- All data in flight being migrated to Amazon FSx for NetApp ONTAP is protected with end-to-end encryption.
- Enterprise-level protection services continuously protect the workload data from user errors and corruption, including backup and disaster recovery solutions.

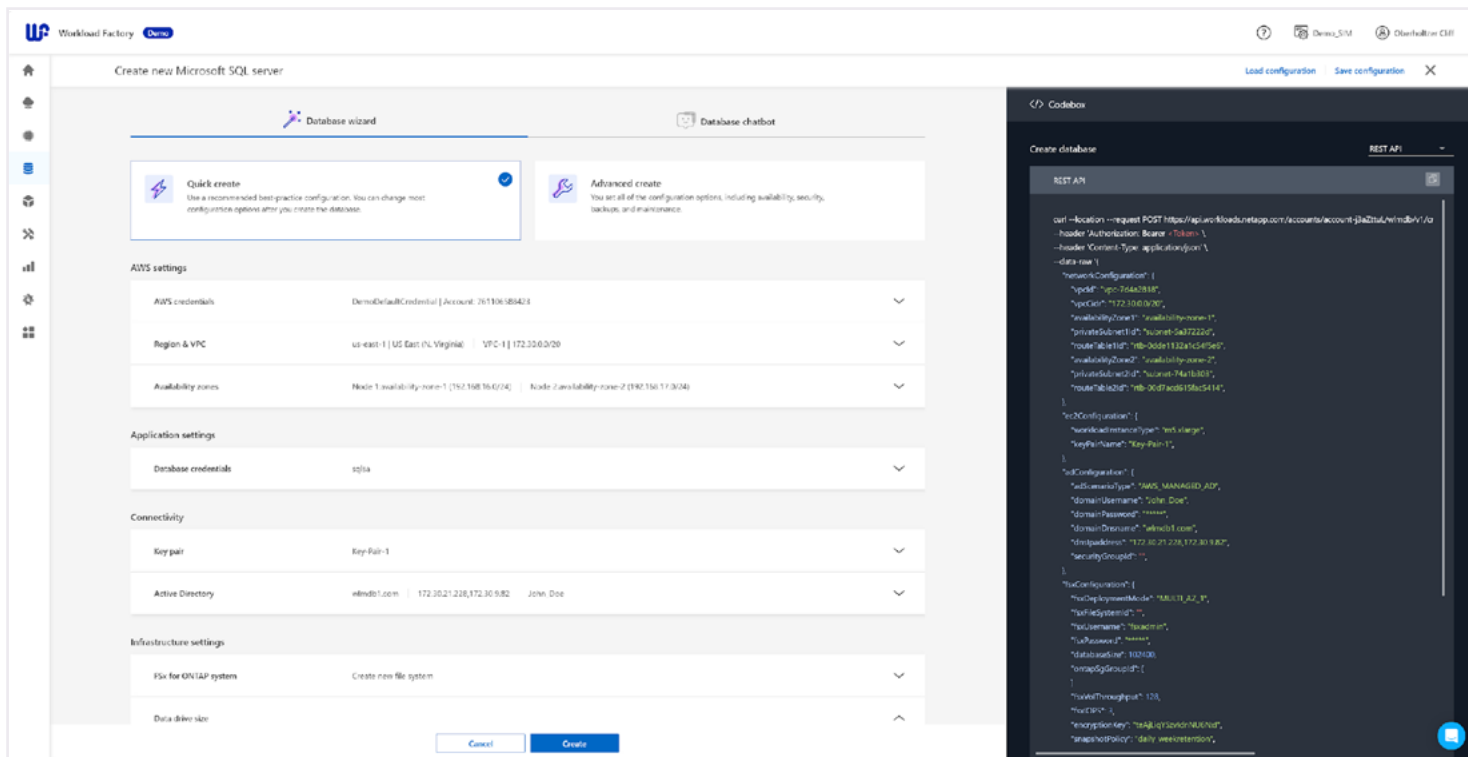


Figure 3: Create a database.

Summary

Unlike other options, NetApp is focused on end-to-end workload deployment, automation, and managing requirements for the entire workload. Infrastructure administrators must understand, plan, and continuously operate using industry and multivendor best practices. These tasks typically require following long, detailed documentation that can be challenging and time-consuming to understand and correlate—and then administrators must perform manual actions on disparate tools that can be error-prone and aren't easily scalable.

BlueXP workload factory helps overcome these challenges. With workload factory, you don't need to interpret and execute complex instructions, because it implements best practices into the workflows and continuously analyzes the environment for drift. It also offers one interface that allows you to execute workload operations through a UI or an API.



Contact Us

About NetApp

NetApp is the intelligent data infrastructure company, combining unified data storage, integrated data services, and CloudOps solutions to turn a world of disruption into opportunity for every customer. NetApp creates silo-free infrastructure, harnessing observability and AI to enable the industry's best data management. As the only enterprise-grade storage service natively embedded in the world's biggest clouds, our data storage delivers seamless flexibility. In addition, our data services create a data advantage through superior cyber resilience, governance, and application agility. Our CloudOps solutions provide continuous optimization of performance and efficiency through observability and AI. No matter the data type, workload, or environment, with NetApp you can transform your data infrastructure to realize your business possibilities. www.netapp.com

