

NETAPP WORKLOAD FACTORY



Using well-architected principles to deploy, manage and optimize 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® Workload Factory revolutionizes cloud workload deployment by eliminating complexity and reducing errors. This complimentary service delivers intelligent automation, seamless management, and optimized performance for workloads using Amazon FSx for NetApp ONTAP. Designed around well-architected principles and industry best practices, it streamlines cloud service design, setup, and ongoing operations.

Supporting a range of critical workloads—including GenAI for AI applications, VMware environments for virtualization, enterprise databases for data management, and development workspaces—it accelerates deployment, enhances performance, strengthens protection, and cuts operational costs. With Workload Factory, organizations can launch workloads faster, plan more effectively, and maximize cloud efficiency. With 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 Workload Factory

Managing workloads efficiently requires coordinating a complex set of tasks across multiple IT roles. Deployment involves cost evaluation, security assessments, scalability planning, resilience measures, infrastructure provisioning, and data transfers. Meanwhile, operational tasks demand automation, continuous monitoring, resource optimization, and robust workload protection—including backup, recovery, and disaster recovery strategies.

These processes are often complex, slow, and error-prone. The Workload Factory transforms deployment and management into a streamlined, automated experience—boosting efficiency, enhancing security, and building resilience. With less manual coordination, IT teams can shift their focus from firefighting to innovation.

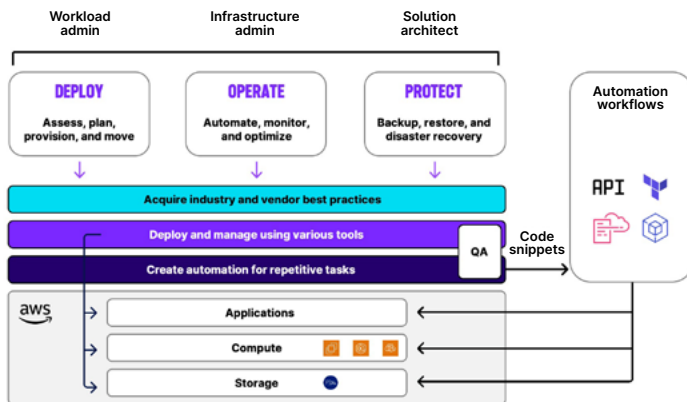


Figure 1: Steps required to deploy a workload.

NetApp® Workload Factory is a free service available in the NetApp Console 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. Auto-generating 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 [NetApp console](#) or [Workload Factory home page](#), where you can select your desired workload.

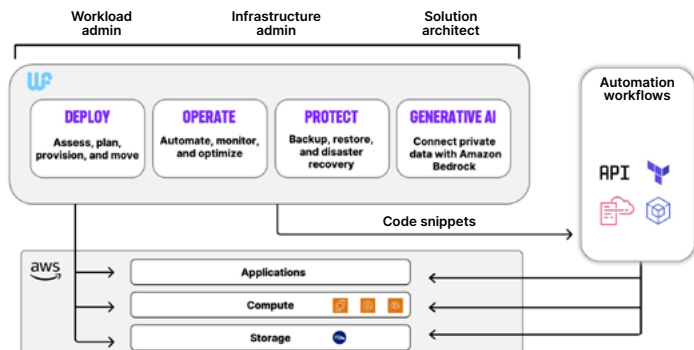


Figure 2: Streamlined deployment with Workload Factory.

KEY BENEFITS

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

“Workload Factory’s quick and easy deployment of a complete RAG solution at no additional cost lowers the hurdles for POCs and accelerates the project cycle. All relevant questions regarding security, compliance, and transport of the corresponding data are taken into account by the underlying FSxN storage solution. This helps us tremendously to accompany our customers in their GenAI journey as a competent and trustworthy partner from the very beginning.”

Sven Ramuschkat, Co-founder, tecRacer

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 well-architected principles with built-in best practices to plan, provision, launch and monitor 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 and optimal performance.

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.

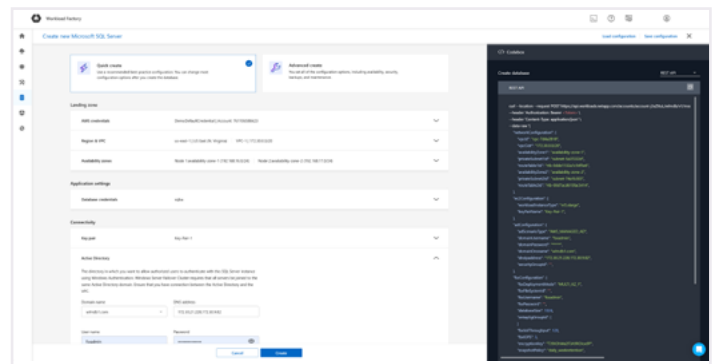


Figure 3: Create a database.

Summary

NetApp stands apart by delivering end-to-end workload deployment, automation, and comprehensive workload management — eliminating manual complexity. Infrastructure administrators must navigate industry and multivendor best practices, often relying on extensive documentation that can be difficult to interpret and time-consuming to follow. Traditional approaches require manual execution across disparate tools, leading to inefficiencies, potential errors, and scalability challenges.

Workload Factory simplifies this process by following well-architected principles such as embedding best practices directly into automated workflows and continuously monitoring for environmental drift. Rather than deciphering complex instructions and manually coordinating tasks, administrators can rely on a unified interface—accessible via UI or API—to seamlessly execute workload operations.



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

