



# **ONTAP AI with NVIDIA**

## **NetApp Solutions**

NetApp  
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# NetApp ONTAP AI with NVIDIA

Overview of ONTAP AI converged infrastructure solutions from NetApp and NVIDIA.

## NetApp ONTAP AI with NVIDIA DGX A100 Systems

- [Design Guide](#)
- [Deployment Guide](#)

## NetApp ONTAP AI with NVIDIA DGX A100 Systems and Mellanox Spectrum Ethernet Switches

- [Design Guide](#)
- [Deployment Guide](#)

## NVA-1151-DESIGN: NetApp ONTAP AI with NVIDIA DGX A100 Systems Design Guide

David Arnette and Sung-Han Lin, NetApp

NVA-1151-DESIGN describes a NetApp Verified Architecture for machine learning and artificial intelligence workloads using NetApp AFF A800 storage systems, NVIDIA DGX A100 systems, and NVIDIA Mellanox network switches. It also includes benchmark test results for the architecture as implemented.

<https://www.netapp.com/pdf.html?item=/media/19432-nva-1151-design.pdf>

## NVA-1151-DEPLOY: NetApp ONTAP AI with NVIDIA DGX A100 Systems

David Arnette, NetApp

NVA-1151-DEPLOY includes storage system deployment instructions for a NetApp Verified Architecture (NVA) for machine learning (ML) and artificial intelligence (AI) workloads using NetApp AFF A800 storage systems, NVIDIA DGX A100 systems, and NVIDIA Mellanox network switches. It also includes instructions for running validation benchmark tests after deployment is complete.

<https://www.netapp.com/pdf.html?item=/media/20708-nva-1151-deploy.pdf>

## NVA-1153-DESIGN: NetApp ONTAP AI with NVIDIA DGX A100 Systems and Mellanox Spectrum Ethernet Switches

David Arnette and Sung-Han Lin, NetApp

NVA-1153-DESIGN describes a NetApp Verified Architecture for machine learning (ML) and artificial intelligence (AI) workloads using NetApp AFF A800 storage systems, NVIDIA DGX A100 systems, and NVIDIA Mellanox Spectrum SN3700V 200Gb Ethernet switches. This design features RDMA over Converged Ethernet (RoCE) for the compute cluster interconnect fabric to provide customers with a completely ethernet-based architecture for high-performance workloads. This document also includes benchmark test results for the

architecture as implemented.

<https://www.netapp.com/pdf.html?item=/media/21793-nva-1153-design.pdf>

## **NVA-1153-DEPLOY: NetApp ONTAP AI with NVIDIA DGX A100 systems and Mellanox Spectrum Ethernet Switches**

David Arnette, NetApp

NVA-1153-DEPLOY includes storage-system deployment instructions for a NetApp Verified Architecture for machine learning (ML) and artificial intelligence (AI) workloads using NetApp AFF A800 storage systems, NVIDIA DGX A100 systems, and NVIDIA Mellanox Spectrum SN3700V 200Gb Ethernet switches. It also includes instructions for executing validation benchmark tests after deployment is complete.

<https://www.netapp.com/pdf.html?item=/media/21789-nva-1153-deploy.pdf>

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