



Modern Apps

FlexPod

NetApp

October 30, 2025

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Modern Apps

FlexPod Datacenter for combined AI and ML with Cisco UCS 480 ML for deep learning - Design

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This document provides design details around the integration of the Cisco UCS C480 ML M5 platform into the FlexPod data center solution to deliver a unified approach for providing AI and ML capabilities within the converged infrastructure. By providing customers the ability to manage servers that combine AI and ML capabilities with the familiar tools they use to administer traditional FlexPod systems, the administrative overhead as well as the cost of deploying a deep learning platform is greatly reduced. The design presented in this CVD also includes other Cisco UCS platforms, such as a C220 M5 server with two NVIDIA T4 GPUs and a C240 M5 server equipped with two NVIDIA V100 32GB PCIe cards as additional options for concurrent AI and ML workloads.

[FlexPod Datacenter for combined AI and ML with Cisco UCS 480 ML for deep learning - Design](#)

Deploy NetApp Trident CSI plug-in on Cisco Container Platform with FlexPod

This document provides step-by-step procedures for deploying the NetApp Trident Container Storage Interface (CSI) plug-in on a Cisco Container Platform Kubernetes tenant cluster in a FlexPod solution.

[Deploy NetApp Trident CSI plug-in on Cisco Container Platform with FlexPod](#)

FlexPod Datacenter for OpenShift Container Platform 4 - Deployment

Haseeb Niazi, Cisco

Alan Cowles, NetApp

Red Hat OpenShift is an enterprise-ready Kubernetes container platform to manage hybrid cloud and multi-cloud deployments. Red Hat OpenShift Container Platform includes everything needed for hybrid cloud, enterprise container, and Kubernetes development and deployments. It includes an enterprise-grade Linux operating system, container runtime, networking, monitoring, container registry, authentication, and authorization solutions.

Combining Red Hat OpenShift with the FlexPod Datacenter solution can simplify the deployment and the management of the container infrastructure. Customers can benefit from improved efficiency, better data protection, lower risk, and the flexibility to scale this highly available enterprise-grade infrastructure stack to

accommodate new business requirements. The pre-validated converged solution approach helps organizations achieve the speed, flexibility, and scale required for all of their application modernization and digital transformation initiatives.

[FlexPod Datacenter for OpenShift Container Platform 4 - Deployment](#)

FlexPod Datacenter with Docker Enterprise Edition for Container Management

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Docker is the world's leading software container platform for developers and IT operations to build, ship, and run distributed applications anywhere. With microservices architecture shaping the next generation of IT, enterprises with large investments in monolithic applications are finding ways to adopt Docker as a strategy for modernizing their application architectures and keeping the organization competitive and cost effective. Containerization provides the agility, control, and portability that developers and IT operations require to build and deploy applications across any infrastructure. The Docker platform allows distributed applications to be easily composed into a lightweight application container that can change dynamically yet non-disruptively. This capability makes the applications portable across development, test, and production environments running on physical or virtual machines locally, in data centres, and across the networks of different cloud service providers.

[FlexPod Datacenter with Docker Enterprise Edition for Container Management](#)

FlexPod Datacenter for OpenShift Container Platform 4 - Design

Haseeb Niazi, Cisco

Alan Cowles, NetApp

Cisco and NetApp have partnered to deliver a series of FlexPod solutions that enable strategic data center platforms. The FlexPod solution delivers an integrated architecture that incorporates best practices for computing, storage, and network design, thereby minimizing IT risks by validating the integrated architecture to ensure compatibility between various components. The solution also addresses IT pain points by providing documented design guidance, deployment guidance, and support that can be used in various stages (planning, designing and implementation) of a deployment.

[FlexPod Datacenter for OpenShift Container Platform 4 - Design](#)

3D graphics visualization with VMware and NVIDIA on Cisco UCS - White paper

This document describes the performance of the VMware ESXi hypervisor and VMware Horizon with NVIDIA Tesla P4, P6, and P40 solution on Cisco UCS C240 M5 Rack Servers and B200 M5 Blade Servers.

[3D graphics visualization with VMware and NVIDIA on Cisco UCS - White paper](#)

3D graphics visualization with Citrix and NVIDIA - White paper

This document describes the performance of Citrix XenDesktop on Citrix XenServer with NVIDIA Tesla P4, P6, and P40 cards on Cisco UCS C240 M5 and B200 M5 servers with SPECviewperf 13.

[3D graphics visualization with Citrix and NVIDIA - White paper](#)

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