



Change Log

NetApp Solutions

NetApp
August 02, 2023

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NetApp Solutions Change Log

Recent changes to the NetApp Solutions collateral. The most recent changes are listed first.

All Changes

Date	Solution Area	Description of change
07/14/2023	Data Analytics	Update TR-4947 : Apache Kafka workload with NetApp NFS storage (AWS FSxN included)
06/09/2023	Database	Added new TR-4973: Quick Recovery and Clone of Oracle VLDB with Incremental Merge on AWS FSx ONTAP
06/08/2023	Hybrid Cloud	Added GCVE with CVS - Application Consistent Disaster Recovery with NetApp SnapCenter and Veeam Replication
06/08/2023	Hybrid Cloud	Added GCVE with CVS - VM Migration to NetApp Cloud Volume Service NFS Datastore on Google Cloud VMware Engine using Veeam Replication feature
05/23/2023	Virtualization	Added TR-4400: VMware vSphere Virtual Volumes (vVols) with NetApp ONTAP
05/19/2023	Database	Added new TR-4974: Oracle 19c in Standalone Restart on AWS FSx/EC2 with NFS/ASM
05/16/2023	Hybrid Multicloud with Red Hat OpenShift	Added new title in the side bar and new content
05/16/2023	Hybrid Multicloud with Red Hat OpenShift	Added new content
05/10/2023	Hybrid Cloud	Added TR-4955: Disaster Recovery with Azure NetApp Files (ANF) and Azure VMware Solution (AVS)
05/05/2023	Database	New TR-4951: Backup and Recovery for Microsoft SQL Server on AWS FSx for ONTAP
05/04/2023	Virtualization	Added "What's New with VMware vSphere 8" content
04/27/2023	Hybrid Cloud	Added Veeam Backup & Restore in VMware Cloud with AWS FSx for ONTAP
03/31/2023	Database	Added Oracle Database Deployment and Protection in AWS FSx/EC2 with iSCSI/ASM
03/31/2023	Database	Added Oracle Database Backup, Restore and Clone with SnapCenter Services
03/29/2023	Automation	Updated blog "FSx for ONTAP Monitoring and Auto-Resizing using AWS Lambda Function" with options for private/public deployment along with manual/automated deployment options.
03/22/2023	Automation	Added blog: FSx for ONTAP Monitoring and Auto-Resizing using AWS Lambda Function
02/15/2023	Database	Added PostgreSQL High Availability Deployment and Disaster Recovery in AWS FSx/EC2
02/07/2023	Hybrid Cloud	Added blog: Announcing general availability of NetApp Cloud Volumes Service datastore support for Google Cloud VMware Engine

02/07/2023	Hybrid Cloud	Added TR-4955: Disaster Recovery with FSx for ONTAP and VMC (AWS VMware Cloud)
01/24/2023	Database	Added TR-4954: Oracle Database Deployment and Protection on Azure NetApp Files
01/12/2023	Database	Added blog: Protect your SQL Server workloads using NetApp SnapCenter with Amazon FSx for NetApp ONTAP
12/15/2022	Database	Added TR-4923: SQL Server on AWS EC2 using Amazon FSx for NetApp ONTAP
12/06/2022	Database	Added 7 videos for Oracle database modernization in hybrid cloud with Amazon FSx storage
10/25/2022	Hybrid Cloud	Added link to VMware documentation for FSx ONTAP as an NFS datastore
10/25/2022	Hybrid Cloud	Added reference to blog for Configuring Hybrid Cloud with FSx ONTAP and VMC on AWS SDDC using VMware HCX
09/30/2022	Hybrid Cloud	Added solution for Migrating Workloads to FSxN datastore using VMware HCX
09/29/2022	Hybrid Cloud	Added solution for Migrating Workloads to ANF datastore using VMware HCX
09/14/2022	Hybrid Cloud	Added links to TCO calculators and simulators for FSxN / VMC and ANF / AVS
09/14/2022	Hybrid Cloud	Added supplemental NFS datastore option for AWS / VMC
08/25/2022	Database	Added blog - Modernize your Oracle database operation in hybrid cloud with Amazon FSx storage
07/11/2023	Data Analytics	Update TR - 4947 : Apache Kafka with FSxN
08/25/2022	AI	New solution: NVIDIA AI Enterprise with NetApp and VMware
08/23/2022	Hybrid Cloud	Updated the latest region availability for all supplemental NFS datastore options
08/05/2022	Virtualization	Added "Reboot Required" information for recommended ESXi and ONTAP settings
07/28/2022	Hybrid Cloud	Added DR solution with SnapCenter and Veeam for AWS/VMC (guest connected storage)
07/21/2022	Hybrid Cloud	Added DR solution with CVO and JetStream for AVS (guest connected storage)
06/29/2022	Database	Added WP-7357: Oracle Database Deployment on EC2/FSx Best Practices
06/16/2022	AI	Added NVIDIA DGX SuperPOD with NetApp design guide
06/10/2022	Hybrid Cloud	Added AVS with ANF native datastore overview and DR with JetStream

06/07/2022	Hybrid Cloud	Updated AVS region support to match public preview announcement / support
06/07/2022	Data Analytics	Added link to NetApp EF600 with Splunk Enterprise solution
06/02/2022	Hybrid Cloud	Added list of region availability for NFS datastores for NetApp Hybrid Multicloud with VMware
05/20/2022	AI	New BeeGFS Design and Deployment guides for SuperPOD
04/01/2022	Hybrid Cloud	Organized content of Hybrid Multicloud with VMware solutions: landing pages for each hyperscaler and inclusion of available solution (use case) content
03/29/2022	Containers	Added a new TR: DevOps with NetApp Astra
03/08/2022	Containers	Added a new video demo: Accelerate Software Development with Astra Control and NetApp FlexClone Technology
03/01/2022	Containers	Added new sections to NVA-1160: Installation of Astra Control Center via OperatorHub and Ansible
02/02/2022	General	Created landing pages to better organize content for AI and Modern Data Analytics
01/22/2022	AI	Added TR: Data movement with E-Series and BeeGFS for AI and analytics workflows
12/21/2021	General	Created landing pages to better organize content for Virtualization and Hybrid Multicloud with VMware
12/21/2021	Containers	Added a new video demo: Leverage NetApp Astra Control to Perform Post-mortem Analysis and Restore Your Application to NVA-1160
12/06/2021	Hybrid Cloud	Creation of Hybrid Multicloud with VMware content for virtualization environment and guest connected storage options
11/15/2021	Containers	Added a new video demo: Data Protection in CI/CD pipeline with Astra Control to NVA-1160
11/15/2021	Modern Data Analytics	New content: Best Practices for Confluent Kafka
11/02/2021	Automation	AWS Authentication Requirements for CVO and Connector Using NetApp Cloud Manager
10/29/2021	Modern Data Analytics	New content: TR-4657 - NetApp hybrid cloud data solutions: Spark and Hadoop
10/29/2021	Database	Automated Data Protection for Oracle Databases
10/26/2021	Database	Added blog section for enterprise applications and database to NetApp solutions tile. Added two blogs to Database blogs.
10/18/2021	Database	TR-4908 - Hybrid Cloud Database Solutions with SnapCenter

10/14/2021	Virtualization	Added parts 1-4 of NetApp with VMware VCF blog series
10/04/2021	Containers	Added a new video demo: Workload Migration using Astra Control Center to NVA-1160
09/23/2021	Data Migration	New content: NetApp Best Practices for NetApp XCP
09/21/2021	Virtualization	New content on ONTAP for VMware vSphere Administrators, VMware vSphere automation
09/09/2021	Containers	Added F5 BIG-IP load balancer integration with OpenShift to NVA-1160
08/05/2021	Containers	Added a new technology integration to NVA-1160 - NetApp Astra Control Center on Red Hat OpenShift
07/21/2021	Database	Automated Deployment of Oracle19c for ONTAP on NFS
07/02/2021	Database	TR-4897 - SQL Server on Azure NetApp Files: Real Deployment View
06/16/2021	Containers	Added a new video demo, Installing OpenShift Virtualization: Red Hat OpenShift with NetApp
06/16/2021	Containers	Added a new video demo, Deploying a Virtual Machine with OpenShift Virtualization: Red Hat OpenShift with NetApp
06/14/2021	Database	Added solution: Microsoft SQL Server on Azure NetApp Files
06/11/2021	Containers	Added a new video demo: Workload Migration using Astra Trident and SnapMirror to NVA-1160
06/09/2021	Containers	Added a new use-case to NVA-1160 - Advanced Cluster Management for Kubernetes on Red Hat OpenShift with NetApp
05/28/2021	Containers	Added a new use-case to NVA-1160 - OpenShift Virtualization with NetApp ONTAP
05/27/2021	Containers	Added a new use-case to NVA-1160- Multitenancy on OpenShift with NetApp ONTAP
05/26/2021	Containers	Added NVA-1160 - Red Hat OpenShift with NetApp
05/25/2021	Containers	Added blog: Installing NetApp Trident on Red Hat OpenShift – How to solve the Docker ‘toomanyrequests’ issue!
05/19/2021	General	Added link to FlexPod solutions
05/19/2021	AI	Converted AI Control Plane solution from PDF to HTML
05/17/2021	General	Added Solution Feedback tile to main page

05/11/2021	Database	Added automated deployment of Oracle 19c for ONTAP on NFS
05/10/2021	Virtualization	New video: How to use vVols with NetApp and VMware Tanzu Basic, part 3
05/06/2021	Oracle Database	Added link to Oracle 19c RAC Databases on FlexPod DataCenter with Cisco UCS and NetApp AFF A800 over FC
05/05/2021	Oracle Database	Added FlexPod Oracle NVA (1155) and Automation video
05/03/2021	Desktop Virtualization	Added link to FlexPod Desktop Virtualization solutions
04/30/2021	Virtualization	Video: How to use vVols with NetApp and VMware Tanzu Basic, part 2
04/26/2021	Containers	Added blog: Using VMware Tanzu with ONTAP to accelerate your Kubernetes journey
04/06/2021	General	Added "About this Repository"
03/31/2021	AI	Added TR-4886 - AI Inferencing at the Edge: NetApp ONTAP with Lenovo ThinkSystem Solution Design
03/29/2021	Modern Data Analytics	Added NVA-1157 - Apache Spark Workload with NetApp Storage Solution
03/23/2021	Virtualization	Video: How to use vVols with NetApp and VMware Tanzu Basic, part 1
03/09/2021	General	Added E-Series content; categorized AI content
03/04/2021	Automation	New content: getting started with NetApp solution automation
02/18/2021	Virtualization	Added TR-4597 - VMware vSphere for ONTAP
02/16/2021	AI	Added automated deployment steps for AI Edge Inferencing
02/03/2021	SAP	Added landing page for all SAP and SAP HANA content
02/01/2021	Desktop Virtualization	VDI with NetApp VDS, Added content for GPU nodes
01/06/2021	AI	New solution: NetApp ONTAP AI with NVIDIA DGX A100 Systems and Mellanox Spectrum Ethernet Switches (Design and Deployment)
12/22/2020	General	Initial release of NetApp Solutions repository

AI / Data Analytics

Date	Solution Area	Description of change
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07/14/20 23	Data Analytics	Update TR-4947 : Apache Kafka workload with NetApp NFS storage (AWS FSxN included)
07/11/20 23	Data Analytics	Update TR - 4947 : Apache Kafka with FSxN
08/25/20 22	AI	New solution: NVIDIA AI Enterprise with NetApp and VMware
06/16/20 22	AI	Added NVIDIA DGX SuperPOD with NetApp design guide
06/07/20 22	Data Analytics	Added link to NetApp EF600 with Splunk Enterprise solution
05/20/20 22	AI	New BeeGFS Design and Deployment guides for SuperPOD
02/02/20 22	General	Created landing pages to better organize content for AI and Modern Data Analytics
01/22/20 22	AI	Added TR: Data movement with E-Series and BeeGFS for AI and analytics workflows
11/15/20 21	Modern Data Analytics	New content: Best Practices for Confluent Kafka
10/29/20 21	Modern Data Analytics	New content: TR-4657 - NetApp hybrid cloud data solutions: Spark and Hadoop
05/19/20 21	AI	Converted AI Control Plane solution from PDF to HTML
03/31/20 21	AI	Added TR-4886 - AI Inferencing at the Edge: NetApp ONTAP with Lenovo ThinkSystem Solution Design
03/29/20 21	Modern Data Analytics	Added NVA-1157 - Apache Spark Workload with NetApp Storage Solution
02/16/20 21	AI	Added automated deployment steps for AI Edge Inferencing
01/06/20 21	AI	New solution: NetApp ONTAP AI with NVIDIA DGX A100 Systems and Mellanox Spectrum Ethernet Switches (Design and Deployment)

Hybrid Multicloud

Date	Solution Area	Description of change
06/08/20 23	Hybrid Cloud	Added GCVE with CVS - Application Consistent Disaster Recovery with NetApp SnapCenter and Veeam Replication
06/08/20 23	Hybrid Cloud	Added GCVE with CVS - VM Migration to NetApp Cloud Volume Service NFS Datastore on Google Cloud VMware Engine using Veeam Replication feature
05/10/20 23	Hybrid Cloud	Added TR-4955: Disaster Recovery with Azure NetApp Files (ANF) and Azure VMware Solution (AVS)

04/27/2023	Hybrid Cloud	Added Veeam Backup & Restore in VMware Cloud with AWS FSx for ONTAP
02/07/2023	Hybrid Cloud	Added blog: Announcing general availability of NetApp Cloud Volumes Service datastore support for Google Cloud VMware Engine
02/07/2023	Hybrid Cloud	Added TR-4955: Disaster Recovery with FSx for ONTAP and VMC (AWS VMware Cloud)
10/25/2022	Hybrid Cloud	Added link to VMware documentation for FSx ONTAP as an NFS datastore
10/25/2022	Hybrid Cloud	Added reference to blog for Configuring Hybrid Cloud with FSx ONTAP and VMC on AWS SDDC using VMware HCX
09/30/2022	Hybrid Cloud	Added solution for Migrating Workloads to FSxN datastore using VMware HCX
09/29/2022	Hybrid Cloud	Added solution for Migrating Workloads to ANF datastore using VMware HCX
09/14/2022	Hybrid Cloud	Added links to TCO calculators and simulators for FSxN / VMC and ANF / AVS
09/14/2022	Hybrid Cloud	Added supplemental NFS datastore option for AWS / VMC
08/23/2022	Hybrid Cloud	Updated the latest region availability for all supplemental NFS datastore options
07/28/2022	Hybrid Cloud	Added DR solution with SnapCenter and Veeam for AWS/VMC (guest connected storage)
07/21/2022	Hybrid Cloud	Added DR solution with CVO and JetStream for AVS (guest connected storage)
06/10/2022	Hybrid Cloud	Added AVS with ANF native datastore overview and DR with JetStream
06/07/2022	Hybrid Cloud	Updated AVS region support to match public preview announcement / support
06/02/2022	Hybrid Cloud	Added list of region availability for NFS datastores for NetApp Hybrid Multicloud with VMware
04/01/2022	Hybrid Cloud	Organized content of Hybrid Multicloud with VMware solutions: landing pages for each hyperscaler and inclusion of available solution (use case) content
12/21/2021	General	Created landing pages to better organize content for Virtualization and Hybrid Multicloud with VMware
12/06/2021	Hybrid Cloud	Creation of Hybrid Multicloud with VMware content for virtualization environment and guest connected storage options

Hybrid Multicloud with Red Hat OpenShift

Date	Solution Area	Description of change
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05/16/2023	Hybrid Multicloud with Red Hat OpenShift	Added new title in the side bar and new content
05/16/2023	Hybrid Multicloud with Red Hat OpenShift	Added new content

Virtualization

Date	Solution Area	Description of change
05/23/2023	Virtualization	Added TR-4400: VMware vSphere Virtual Volumes (vVols) with NetApp ONTAP
05/04/2023	Virtualization	Added "What's New with VMware vSphere 8" content
08/05/2022	Virtualization	Added "Reboot Required" information for recommended ESXi and ONTAP settings
04/01/2022	Hybrid Cloud	Organized content of Hybrid Multicloud with VMware solutions: landing pages for each hyperscaler and inclusion of available solution (use case) content
12/21/2021	General	Created landing pages to better organize content for Virtualization and Hybrid Multicloud with VMware
10/14/2021	Virtualization	Added parts 1-4 of NetApp with VMware VCF blog series
09/21/2021	Virtualization	New content on ONTAP for VMware vSphere Administrators, VMware vSphere automation
05/10/2021	Virtualization	New video: How to use vVols with NetApp and VMware Tanzu Basic, part 3
05/03/2021	Desktop Virtualization	Added link to FlexPod Desktop Virtualization solutions
04/30/2021	Virtualization	Video: How to use vVols with NetApp and VMware Tanzu Basic, part 2
04/26/2021	Containers	Added blog: Using VMware Tanzu with ONTAP to accelerate your Kubernetes journey
03/23/2021	Virtualization	Video: How to use vVols with NetApp and VMware Tanzu Basic, part 1
02/18/2021	Virtualization	Added TR-4597 - VMware vSphere for ONTAP
02/01/2021	Desktop Virtualization	VDI with NetApp VDS, Added content for GPU nodes

Containers

Date	Solution Area	Description of change
03/29/2022	Containers	Added a new TR: DevOps with NetApp Astra

03/08/2022	Containers	Added a new video demo: Accelerate Software Development with Astra Control and NetApp FlexClone Technology
03/01/2022	Containers	Added new sections to NVA-1160: Installation of Astra Control Center via OperatorHub and Ansible
12/21/2021	Containers	Added a new video demo: Leverage NetApp Astra Control to Perform Post-mortem Analysis and Restore Your Application to NVA-1160
11/15/2021	Containers	Added a new video demo: Data Protection in CI/CD pipeline with Astra Control to NVA-1160
10/04/2021	Containers	Added a new video demo: Workload Migration using Astra Control Center to NVA-1160
09/09/2021	Containers	Added F5 BIG-IP load balancer integration with OpenShift to NVA-1160
08/05/2021	Containers	Added a new technology integration to NVA-1160 - NetApp Astra Control Center on Red Hat OpenShift
06/16/2021	Containers	Added a new video demo, Installing OpenShift Virtualization: Red Hat OpenShift with NetApp
06/16/2021	Containers	Added a new video demo, Deploying a Virtual Machine with OpenShift Virtualization: Red Hat OpenShift with NetApp
06/11/2021	Containers	Added a new video demo: Workload Migration using Astra Trident and SnapMirror to NVA-1160
06/09/2021	Containers	Added a new use-case to NVA-1160 - Advanced Cluster Management for Kubernetes on Red Hat OpenShift with NetApp
05/28/2021	Containers	Added a new use-case to NVA-1160 - OpenShift Virtualization with NetApp ONTAP
05/27/2021	Containers	Added a new use-case to NVA-1160- Multitenancy on OpenShift with NetApp ONTAP
05/26/2021	Containers	Added NVA-1160 - Red Hat OpenShift with NetApp
05/25/2021	Containers	Added blog: Installing NetApp Trident on Red Hat OpenShift – How to solve the Docker ‘toomanyrequests’ issue!
05/10/2021	Virtualization	New video: How to use vVols with NetApp and VMware Tanzu Basic, part 3
04/30/2021	Virtualization	Video: How to use vVols with NetApp and VMware Tanzu Basic, part 2
04/26/2021	Containers	Added blog: Using VMware Tanzu with ONTAP to accelerate your Kubernetes journey
03/23/2021	Virtualization	Video: How to use vVols with NetApp and VMware Tanzu Basic, part 1

Enterprise Apps and DB

Date	Solution Area	Description of change
06/09/2023	Database	Added new TR-4973: Quick Recovery and Clone of Oracle VLDB with Incremental Merge on AWS FSx ONTAP
05/19/2023	Database	Added new TR-4974: Oracle 19c in Standalone Restart on AWS FSx/EC2 with NFS/ASM
05/05/2023	Database	New TR-4951: Backup and Recovery for Microsoft SQL Server on AWS FSx for ONTAP
03/31/2023	Database	Added Oracle Database Deployment and Protection in AWS FSx/EC2 with iSCSI/ASM
03/31/2023	Database	Added Oracle Database Backup, Restore and Clone with SnapCenter Services
02/15/2023	Database	Added PostgreSQL High Availability Deployment and Disaster Recovery in AWS FSx/EC2
01/24/2023	Database	Added TR-4954: Oracle Database Deployment and Protection on Azure NetApp Files
01/12/2023	Database	Added blog: Protect your SQL Server workloads using NetApp SnapCenter with Amazon FSx for NetApp ONTAP
12/15/2022	Database	Added TR-4923: SQL Server on AWS EC2 using Amazon FSx for NetApp ONTAP
12/06/2022	Database	Added 7 videos for Oracle database modernization in hybrid cloud with Amazon FSx storage
08/25/2022	Database	Added blog - Modernize your Oracle database operation in hybrid cloud with Amazon FSx storage
06/29/2022	Database	Added WP-7357: Oracle Database Deployment on EC2/FSx Best Practices
10/29/2021	Database	Automated Data Protection for Oracle Databases
10/26/2021	Database	Added blog section for enterprise applications and database to NetApp solutions tile. Added two blogs to Database blogs.
10/18/2021	Database	TR-4908 - Hybrid Cloud Database Solutions with SnapCenter
07/21/2021	Database	Automated Deployment of Oracle19c for ONTAP on NFS
07/02/2021	Database	TR-4897 - SQL Server on Azure NetApp Files: Real Deployment View
06/14/2021	Database	Added solution: Microsoft SQL Server on Azure NetApp Files
05/11/2021	Database	Added automated deployment of Oracle 19c for ONTAP on NFS
05/06/2021	Oracle Database	Added link to Oracle 19c RAC Databases on FlexPod DataCenter with Cisco UCS and NetApp AFF A800 over FC

05/05/20 21	Oracle Database	Added FlexPod Oracle NVA (1155) and Automation video
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02/03/20 21	SAP	Added landing page for all SAP and SAP HANA content
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For more information on SAP and SAP HANA updates, refer to the "Update History" content present for each of the solutions in the [SAP Solutions Repository](#).

Data Protection and Data Migration

Date	Solution Area	Description of change
10/29/20 21	Database	Automated Data Protection for Oracle Databases
09/23/20 21	Data Migration	New content: NetApp Best Practices for NetApp XCP

Solution Automation

Date	Solution Area	Description of change
03/29/20 23	Automation	Updated blog "FSx for ONTAP Monitoring and Auto-Resizing using AWS Lambda Function" with options for private/public deployment along with manual/automated deployment options.
03/22/20 23	Automation	Added blog: FSx for ONTAP Monitoring and Auto-Resizing using AWS Lambda Function
11/02/20 21	Automation	AWS Authentication Requirements for CVO and Connector Using NetApp Cloud Manager
10/29/20 21	Database	Automated Data Protection for Oracle Databases
07/21/20 21	Database	Automated Deployment of Oracle19c for ONTAP on NFS
05/11/20 21	Database	Added automated deployment of Oracle 19c for ONTAP on NFS
03/04/20 21	Automation	New content: getting started with NetApp solution automation

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