



Change Log

NetApp Solutions

NetApp
June 29, 2023

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NetApp Solutions Change Log 1

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 |
|------------|--|--|
| 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) |

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|------------|----------------|--|
| 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 |
| 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 |

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|------------|-----------------------|---|
| 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 |

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|------------|-----------------|--|
| 09/23/2021 | Data Migration | New content: NetApp Best Practices for NetApp XCP |
| 09/21/2021 | Virtualization | New content or 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 |

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|------------|------------------------|--|
| 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 |
|------------|----------------|--|
| 08/25/2022 | AI | New solution: NVIDIA AI Enterprise with NetApp and VMware |
| 06/16/2022 | AI | Added NVIDIA DGX SuperPOD with NetApp design guide |
| 06/07/2022 | Data Analytics | Added link to NetApp EF600 with Splunk Enterprise solution |

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| 05/20/2022 | AI | New BeeGFS Design and Deployment guides for SuperPOD |
| 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 |
| 11/15/2021 | Modern Data Analytics | New content: Best Practices for Confluent Kafka |
| 10/29/2021 | Modern Data Analytics | New content: TR-4657 - NetApp hybrid cloud data solutions: Spark and Hadoop |
| 05/19/2021 | AI | Converted AI Control Plane solution from PDF to HTML |
| 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 |
| 02/16/2021 | AI | Added automated deployment steps for AI Edge Inferencing |
| 01/06/2021 | 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 |
|------------|---------------|---|
| 06/08/2023 | 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 |
| 05/10/2023 | 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 |

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| 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 |
|------------|--|---|
| 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 |

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| 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 |

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| 06/16/2021 | Containers | Added a new video demo, Deploying a Virtual Machine with OpenShift Virtualization: Red Hat OpenShift with NetApp |
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| 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 |

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| 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 |
| 05/05/2021 | Oracle Database | Added FlexPod Oracle NVA (1155) and Automation video |
| 02/03/2021 | SAP | Added landing page for all SAP and SAP HANA content |



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 |
|------------|----------------|---|
| 10/29/2021 | Database | Automated Data Protection for Oracle Databases |
| 09/23/2021 | Data Migration | New content: NetApp Best Practices for NetApp XCP |

Solution Automation

| Date | Solution Area | Description of change |
|------|---------------|-----------------------|
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|------------|------------|--|
| 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 |
| 11/02/2021 | Automation | AWS Authentication Requirements for CVO and Connector Using NetApp Cloud Manager |
| 10/29/2021 | Database | Automated Data Protection for Oracle Databases |
| 07/21/2021 | Database | Automated Deployment of Oracle19c for ONTAP on NFS |
| 05/11/2021 | Database | Added automated deployment of Oracle 19c for ONTAP on NFS |
| 03/04/2021 | Automation | New content: getting started with NetApp solution automation |

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