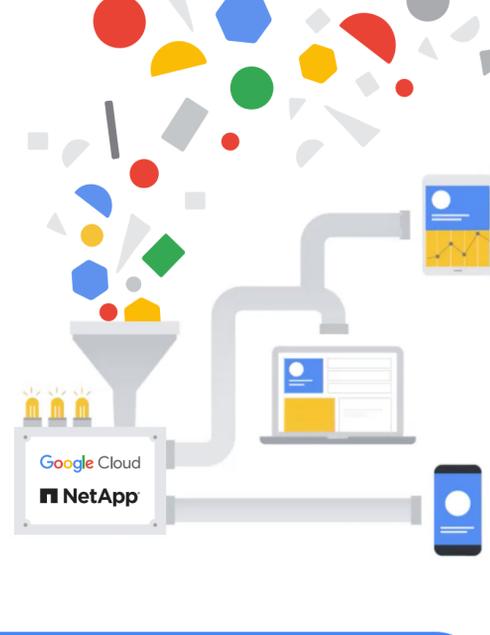


# Realize your full cloud value

Move your high-availability apps to the cloud



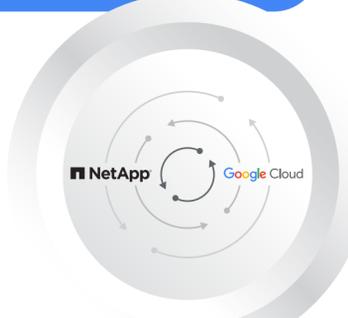
## 1 | Why move to the cloud

Business agility	Modern workplace	Digital transformation	Data protection
<p>"I need to scale up and down on-demand to support changing business demands"</p>	<p>"I've got to move 2,000 employees to a virtual workplace by end of the month"</p>	<p>"What about my soon-to-be unsupported app? How do I modernize with the lowest TCO?"</p>	<p>"We're experiencing outages weekly, I've got to improve my backup and recovery solution"</p>

## 2 | The NetApp and Google Cloud difference

"Our partnership with NetApp continues to grow as we expand on our goal to help customers accelerate their cloud migration journeys. Together, we're excited to roll out new capabilities that will make it easier and more cost-effective to deliver enterprise workloads on Google Cloud and bring customers even more flexibility across hybrid and cloud deployments."

**Bronwyn Hastings**  
VP Global Technology Partnerships at Google Cloud



## 3 | Common use cases

Google Cloud  
NetApp

Infrastructure modernization	DevOps acceleration	User experience	Time-to-market	Data protection
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**Deliver high availability across workloads**

NetApp® Cloud Volumes Service	Cloud Volumes ONTAP®
<ul style="list-style-type: none"> <li><b>SAP</b> SAP Shared files SAP Cloud Platform Data lake</li> <li><b>Windows workloads</b> Windows Server File server consolidation VDI</li> </ul>	<ul style="list-style-type: none"> <li><b>General purpose NAS</b> NFS/SMB</li> <li><b>Google Cloud vmware</b></li> <li><b>Google Cloud VMware Engine</b> Guest OS shared files Datastore</li> <li><b>Hybrid cloud</b> Backup and DR DevOps Native support for Google Anthos and GKE with HCI</li> </ul>

## 4 | The benefits of the NetApp solution

**Increase availability, improve performance, innovate**

Standardize ops management, simplify deployment, and improve runtime when spinning up new environments.	Support business continuity strategies by replicating data to secure and highly available cloud infrastructure.	Utilize the data in the cloud to solve additional business requirements like big data analytics or speed up time-to-market.
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## 5 | NetApp features and capabilities

- Simple data management
- Data survival and preservation
- Performance on-demand

NetApp Cloud Volumes

Highly available	Multiple performance classes	Terraformable GCP API	Secure	Integrated monitoring	Clones and Snapshot™ copies	Encrypted	Cross-regional replication
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## 6 | NetApp and Google Cloud in action

**Case study: biomedical device manufacturer**

NetApp | Google Cloud

<p><b>Problem:</b> Outage during server patching. Teams lose productivity when single compute instance uses persistent disk as repo source.</p>	<p>Database environments</p> <ul style="list-style-type: none"> <li>Microsoft SQL Server</li> <li>mongoDB</li> </ul> <p>Infrastructure monitoring and logging environments</p> <ul style="list-style-type: none"> <li>Nagios</li> <li>splunk &gt;</li> </ul> <p>CI/CD tools repos</p> <ul style="list-style-type: none"> <li>Artifactory</li> <li>Jfrog</li> </ul>	<p><b>Resolution:</b> Shared storage. Zero downtime. Seamless upgrades. Zero productivity loss when Cloud Volumes Service is used for repo source.</p>
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## Customer success story: simplifying shared files

**Highly available NFS service:**

- ✓ No 'roll your own' NFS server/clusters to maintain
- ✓ Fewer pacemaker clusters

CardinalHealth | NetApp | Google Cloud

<p>ASCS LB   ERS LB</p> <p>Pacemaker cluster</p> <p>NFS LB</p> <p>NFS VM-1   NFS VM-2</p> <p>/sapmnt/SID /usr/sap/SID/SYS /usr/sap/SID/ASCS /usr/sap/SID/ERS /usr/sap/trans</p>	<p>ASCS LB   ERS LB</p> <p>Pacemaker cluster</p> <p>/sapmnt/SID /usr/sap/SID/SYS /usr/sap/SID/SYS /usr/sap/SID/ASCS /usr/sap/SID/ERS /usr/sap/SID/ERS /usr/sap/trans /usr/sap/trans</p> <p><b>Cloud Volumes Service</b></p> <ul style="list-style-type: none"> <li>Highly available shared file system</li> <li>Snapshots for backup and recovery</li> <li>Instant cloning for development testing</li> </ul>
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Watch on-demand webinar "Redefine your cloud migration journey"  
Learn more about NetApp on Google Cloud