NetApp & Google Cloud Hackathon: Migrating Windows Workloads to Google Cloud Platform

Category: Cloud Platforms | **Vendor:** Google Cloud

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Please note Learners will be put into a team of 5, where they will collaborate throughout the hack. If you wish to book a dedicated team of 5 the price is £7,500 +vat.

This track focuses on the scenario of migrating Windows-based workloads to the Google Cloud Platform with the power of NetApp Cloud Services. Attendees will gain experience and knowledge, starting from scratch by exploring Google Cloud Platform and NetApp Services and moving on to the more complex challenges of setting up Active Directory and SMB storage up to fully migrated web solution in Google Cloud Platform leveraging CVS for the storage purposes. Finally, they will explore the capabilities of Kubernetes powered with NetApp CVS as a persistent volume for their containerized workloads.

About This Course

Challenge 1: Exploring NetApp Public Cloud Services on the Google Cloud Platform

- Familiarize yourself with GCP Console, artefacts, terminal etc.
- Create Linux VM and leverage CVS for Simple NFS share, upload sample data. Create a second Linux VM connecting to the same file share.

Challenge 2: Designing and deploying your virtual NetApp infrastructure in Google Cloud for Windows Migrations

- Create Windows VM with Active Directory Domain Services for hosting the Windows Domain
- Create CVS for storing files for Web Application
- Create Windows VM for Web server and connect it to AD
- Confirm that CVS for SMB Share is configured properly by uploading or creating a few sample files
- Create CVS for storing database
- Create Windows VM for Database server and connect it to AD
- Configure security features such as firewall to enable communication between VMs
- Make sure the Web server VM can communicate with the database VM

Challenge 3: Migrating database and the data to the cloud

- Attendees will need to configure the database server and all of its components, deploy the database, move the data and make sure it works.
- Install SQL Server on the database VM
- Configure SQL Server to use CVS as data store
- Deploy the T-SQL script containing schema definition and data
- Test and ensure the application can access the database
- Configure snapshot base database backup

Challenge 4: Migrating the application and files to the cloud

- Attendees will need to configure the application (web) server and all of its components, deploy the application, migrate files and make sure it works.
- Configure IIS role on application server
- Configure ports on both Windows and Cloud firewall and make sure IIS is accessible from the outside world
- Deploy web application from git repository (eg. BitBucket, GitHub…)
- Configure application to use CVS as a location for files
- Test and ensure the application can access the files from CVS

Challenge 5: Monitoring and testing your Google Cloud + NetApp deployment

- Attendees will learn how to monitor and test the application, database and underlying infrastructure components
- Deploy and configure monitoring tools
- Load test the application and database
- Recover database from backup
- Clone application and database VM and create Dev/Test environment

Challenge 6: Containers (K8S)

In the meantime, the IT department decided to re-architect the infrastructure and migrated the web application to containers.

They also configured the K8s infrastructure for the next version of the application. Attendees will need to leverage CVS as a persistent storage in K8s cluster and deploy SQL Server container, the database and make sure the application is working.

Create CVS for K8s Persistent Volume

Edit the YAML file and deploy to the cluster

Test that the application in the K8s cluster can access new database

Detailed Course Outline

Challenge 1: Exploring NetApp Public Cloud Services on the Google Cloud Platform

• Familiarize with GCP Console; Create Linux VM with CVS NFS share

Challenge 2: Designing and deploying virtual NetApp infrastructure in GCP for Windows Migrations

• Create Windows VM with AD Domain Services; Create CVS for files and database; Configure Web and Database servers; Configure security/firewall

Challenge 3: Migrating database and data to the cloud

• Install SQL Server on database VM; Configure SQL Server to use CVS as data store; Deploy T-SQL schema and data; Configure snapshot-based backup

Challenge 4: Migrating the application and files to the cloud

• Configure IIS role; Deploy web application from git; Configure app to use CVS for files

Challenge 5: Monitoring and testing your Google Cloud + NetApp deployment

• Deploy monitoring tools; Load test application; Recover database from backup; Clone VMs for Dev/Test environment

Challenge 6: Containers (K8S)

• Create CVS for K8s Persistent Volume; Edit YAML and deploy to cluster; Test application access to database

Frequently Asked Questions

Q: What delivery options are available for NetApp & Google Cloud Hackathon: Migrating Windows Workloads to Google Cloud Platform?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day NetApp & Google Cloud Hackathon: Migrating Windows Workloads to Google Cloud Platform course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the NetApp & Google Cloud Hackathon: Migrating Windows Workloads to Google Cloud Platform training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for NetApp & Google Cloud Hackathon: Migrating Windows Workloads to Google Cloud Platform?

Yes, we provide corporate training, dedicated training, and closed classes for NetApp & Google Cloud Hackathon: Migrating Windows Workloads to Google Cloud Platform. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: NetApp & Google Cloud Hackathon: Migrating Windows Workloads to Google Cloud Platform, Hackathon, NAGOWMH

Q: Why choose Nexus Human for NetApp & Google Cloud Hackathon: Migrating Windows Workloads to Google Cloud Platform?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your NetApp & Google Cloud Hackathon: Migrating Windows Workloads to Google Cloud Platform training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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