# Official GCP guidance for SAP HANA

# SAP directory structure and storage options

https://cloud.google.com/sap/docs/architectures/sap-s4hana-on-gcp

# Why this guide?

- This is the official architecture reference document for SAP HANA on GCP
- Guide is up-to-date as of October 2, 2025

Standard directory structure and recommended storage options in following table:

SAP HANA directory	Recommended storage option in Google Cloud
/usr/sap	Balanced Persistent Disk
/hana/data	SSD-based Persistent Disk or Hyperdisk
/hana/log	SSD-based Persistent Disk or Hyperdisk
/hana/shared <sup>*</sup>	Balanced Persistent Disk
/hanabackup*	Balanced Persistent Disk

In distributed deployments, /hana/shared and /hanabackup can also be mounted as a network file system using an NFS solution such as

Persistent disk storage certified to be used with SAP HANA found here:

https://cloud.google.com/sap/docs/certifications-sap-hana#persistent disk storage for sap hana

# SSD-based

More cost effective

# Hyperdisk

Max IOPS and throughput

#### **Native Backup option for HANA**

https://cloud.google.com/sap/docs/agent-for-sap/latest/backint-backup-recovery

Assuming best practices for a production environment, the Backint feature of Google Cloud's Agent for SAP is the preferred choice for backup and recovery. This method allows backup storage and retrieval directly from cloud storage with SAP-native functionality.

# **Networking and IAM prerequisites**

https://cloud.google.com/sap/docs/agent-for-sap/latest/install-config-on-vm

# Minimum required IAM roles

- Compute Viewer (roles/compute.viewer)
- Monitoring Viewer (roles/monitoring.viewer)
- Workload Manager Insights Writer (roles/workloadmanager.insightWriter)

# **Minimum Google Cloud API access**

• Cloud Platform: Enabled

• Compute Engine: Read Only

• Stackdriver Monitoring API: Read Only

# Options for no public IPs

- Private Google Access for agent without the need for internet access, enabling this on the subnet will allow access to Google APIs and services (compute instance must be in a VPC)
- Cloud NAT Gateway if agent needs access to internet for package manager installations or other third-party services

Bonus tidbit - cool checklist I found for SAP HANA on GCP

https://cloud.google.com/sap/docs/checklist-sap-hana