SAP HANA Sizing
Decision Tree

SAP SE
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Introduction

Purpose of documentation

- Show different sizing approaches for greenfield and migration sizings
- Give guidance on the usage of the different HANA sizing notes that are available
- Show methods for sizing verification
- Describe the End-to-End HANA sizing process
SAP HANA Sizing – In a Nutshell

Customer Interested in SAP HANA

New SAP HANA system (Greenfield Sizing)

Use SAP HANA Quick Sizer
(www.sap.com/sizing)

Use Migration Reports/Procedure
(Notes: 1872170, 1793345, 2296290)

Existing SAP system migrated to SAP HANA (Migration Sizing)

Find deployment options:
Connect with hardware vendor and check for configuration

Certified and Supported SAP HANA® Hardware Directory
Link:
**SAP HANA Sizing - Overview**

**Sizing Type**
- **New SAP HANA system (Greenfield Sizing)**
- **Migrate existing SAP applications to SAP HANA (Migration Sizing)**

**Definition**
- **Greenfield**
  A new SAP application, which did not exist before
- **Brownfield (system conversion)**
  The SAP application exists on anyDB, anyOS, maybe in a backlevel release

**Sizing Verification**
After the system runs on SAP HANA, check whether the capacity estimation was right
Greenfield Sizing

New SAP HANA system (Greenfield Sizing)

Use Quick Sizer
- HANA version
- S/4HANA Cloud version

Sizing Guidelines

Expert Sizing for HANA native

Methodology and sizing result
- Structured questionnaires for key SAP applications
- Sizing results given in SAPS (CPU), GB (Memory and disk) and disk I/O
- Optional: Memory for persistent Memory (NVRAM)

Sizing document
- Overview about architecture and functionalities for selected business scenarios
- Sizing results given as T-Shirt categories in SAPS (CPU) and GB (Memory & disk)

Services
- Request MAXAttention Service or Sizing Service
Migration Sizing Part 1/2

Existing NW ABAP system to be migrated to SAP HANA

Methodology and result

• Sizing report (note 1872170) which runs on the "legacy" (anyDB, anyOS) ABAP system to determine the required HANA RAM and disk on the new HANA-based solution

• Potential areas for housekeeping, cleanup and archiving

• Report /SDF/HDB_SIZING contains enhancement for persistent memory sizing

• CPU sizing: Is now included in the sizing report. Recommendation: Double-check result with method as described in SAP Note 1793345

SAP Notes 1872170; 1793345

SAP BW/4HANA

Methodology and result

• Sizing report (note 229690) which runs on the source BW ABAP system to determine the required HANA RAM and disk.

• Potential areas for housekeeping, cleanup and archiving

• In addition, a HANA CPU requirement assessment is included

• Persistent Memory sizing will be available soon

SAP Note 2296290
Migration Sizing Part 2/2

Existing NW Java system *to be* migrated to SAP HANA

- Expert Sizing
- Sizing Guidelines

Existing Non-NW-based system *to be* migrated to SAP HANA

- Analysis of Legacy system
- SAP Note 1514966
- Request a sizing service

HANA native

SAP S/4HANA

- Analysis of Legacy system
- SAP HANA version of Quick Sizer

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Sizing Verification

Existing SAP HANA System

- SAP Business Suite powered by HANA & SAP S/4HANA
  - SAP Note 1872170

- Industry Solutions powered by SAP HANA
  - Early Watch Alert

- SAP NW BW powered by HANA & BW/4HANA
  - SAP Note 2296290

- Non-NW products on SAP HANA
  - SAP Note 1969700
  - SAP Note 1698281

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