GLOSSARY OF SAP S/4HANA BASIS ADMINISTRATION

A Quick Reference Guide to SAP Terminologies

Concept/Term	Definition
SAP Basis	A set of middleware programs and tools that provide the foundation for running SAP applications. Includes system administration, installation, and configuration.
S/4HANA	SAP's next-generation ERP suite, powered by the SAP HANA in-memory database. Provides real-time analytics, simplified user experience, and integration.
SAP HANA	An in-memory database platform developed by SAP. It processes large amounts of data quickly and supports real-time analytics and transactional workloads.
Client	A logical partition in the SAP system, used to separate data and configuration for different business units within a single instance.
Instance	A set of processes and resources that run an SAP system. Includes an application server and a database server.

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Concept/Term	Definition
SAP System Landscape	The system setup or structure of SAP components, such as development, quality assurance, and production systems.
Transport Directory	A directory where transport requests are stored, allowing configuration and object transport across SAP systems.
Transport Request	A container that holds configuration or custom objects to be moved between SAP systems (e.g., from development to production).
TMS (Transport Management System)	A system for managing and controlling transports between SAP systems. Ensures consistent configuration and object movement.
R3trans	A utility used to export, import, or manage transport requests in SAP systems. Runs in the background during transport activities.

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Concept/Term	Definition
ABAP Workbench	A set of tools used to create and modify SAP applications, reports, and programs written in ABAP (Advanced Business Application Programming).
STMS	Transaction code used to manage transport requests and the transport directory within the SAP Transport Management System.
SM59	Transaction code used to configure and manage RFC (Remote Function Call) connections between SAP systems.
RFC (Remote Function Call)	A protocol for calling functions in remote systems. Enables communication between different SAP systems.
Gateway Server	A server responsible for handling RFC communication between SAP systems and external systems.

SAP S/4HANA Basis Administration
Key Concepts

Concept/Term	Definition
System Log (SM21)	A log that captures information about system events, errors, and performance. Used for troubleshooting and system monitoring.
Workbench Organizer	Manages and organizes the transport of ABAP workbench objects (like programs and function modules) between systems.
Data Transport	The process of transferring data from one system to another, often through transports or backups.
System Copy	The process of copying an entire SAP system, typically from one server to another, for backup or scaling purposes.
Database Migration	Moving an SAP system's database from one database platform to another, such as from a traditional relational database to SAP HANA.

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SAP S/4HANA Basis Administration
Key Concepts

Concept/Term	Definition
Instance Profile	A configuration file that holds system-specific parameters, such as memory allocation and instance behavior.
Default Profile	A profile used for default system settings that apply to all SAP systems, defining memory, process limits, and more.
Parameter File	A configuration file used to set system parameters, such as performance and behavior settings, within SAP.
S/4HANA System Architecture	The structure of an S/4HANA system, which includes the HANA database, application layer, and various application modules.
Database Schema	A logical container within an SAP database that defines how data is structured and organized.

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SAP S/4HANA Basis Administration Key Concepts

Concept/Term	Definition
Backup and Restore	The processes for creating backups of SAP data and restoring it to ensure business continuity during failures.
DBACOCKPIT	A tool used to administer the SAP HANA database, including performance monitoring, user management, and database tuning.
Log File	A file that records system activities, errors, and transaction logs for troubleshooting and auditing purposes.
Performance Tuning	Optimizing system performance by adjusting system parameters, database configurations, and hardware resources.
SAP Kernel	The core set of programs and functions that manage system resources, memory, and communication within the SAP system.

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Concept/Term	Definition
User Profile	The configuration and settings related to a user's system access, roles, and permissions within SAP.
Security Profile	A set of configurations that control user access and permissions to ensure security within the SAP system.
Authorization	The process of granting or restricting access to SAP system resources based on user roles and responsibilities.
Role-Based Access Control (RBAC)	A system for controlling access to SAP resources by assigning roles to users based on their job responsibilities.
System Monitoring (S/4HANA)	The continuous observation of system performance, resources, and logs to ensure the SAP system is running optimally.

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SAP S/4HANA Basis Administration
Key Concepts

Concept/Term	Definition
Job Scheduling	The process of automating SAP tasks, such as report generation and backups, by scheduling them to run at specified times.
ABAP Debugger	A tool used to troubleshoot and debug ABAP programs. Allows developers to step through code and check variable values during execution.
Batch Input	A method for automating the input of large amounts of data into SAP systems, often through batch processing.
Backup Mode	The state of the SAP system during a backup, where no changes are made to the database while the backup is taking place.
System Reset	A process used to restore the SAP system to a previous state, usually after a failure or unsuccessful upgrade.

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SAP S/4HANA Basis Administration
Key Concepts

Concept/Term	Definition
S/4HANA High Availability	Ensures that SAP S/4HANA systems remain operational in the event of a hardware or software failure by using clustering or system replication.
Disaster Recovery (DR)	A strategy to recover SAP systems in case of a major system failure or catastrophic event. Involves backups, redundancy, and failover.
SAP HANA Cockpit	A web-based tool for managing and monitoring SAP HANA databases. Provides insights into system performance and health.
Database Performance Optimization	Techniques and practices aimed at improving the speed and efficiency of SAP HANA database queries and transactions.
Transport Directory	A central location in SAP where transport requests and files are stored and tracked for movement across systems.

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Concept/Term	Definition
Clustered System Setup	The configuration of multiple servers to work together, ensuring high availability and load balancing in SAP systems.
Memory Management	The process of managing and optimizing system memory, including allocation, usage, and monitoring in SAP.
SAP System Logs (ST22)	Transaction code for accessing ABAP runtime errors and dumps, used to diagnose system errors.
Java Stack	The portion of the SAP system that runs Java applications. Includes the Java Engine and other services for managing Java-based processes.
ABAP Stack	The portion of the SAP system that runs ABAP programs. Handles all ABAP-related processes and reports.

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