SAP Business Technology Platform (SAP BTP) – Basics and Fundamentals

1. Introduction to SAP BTP

SAP Business Technology Platform (SAP BTP) is SAP's cloud-based platform that enables organizations to build, extend, integrate, and manage business applications.

It allows innovation without modifying core SAP systems such as SAP S/4HANA.

SAP BTP acts as a technology foundation connecting business processes with digital solutions.

2. Purpose of SAP BTP

To protect core SAP systems by avoiding direct customizations.

To enable side-by-side extensions using cloud technologies.

To support faster and scalable innovation.

Example: A custom approval app developed outside SAP S/4HANA.

3. SAP BTP as a Unified Platform

Combines development, integration, analytics, data, and intelligent technologies.

Supports both SAP and non-SAP systems.

Used by developers and business users together.

4. Core Pillars of SAP BTP

4.1 Application Development and Automation

Supports pro-code, low-code, and no-code development.

Provides tools like SAP Business Application Studio and SAP Build Apps.

Used to develop applications and automate workflows.

Example: Employee leave management application.

4.2 Integration

Connects SAP systems with other SAP and non-SAP applications.

Ensures smooth data flow across systems.

Uses SAP Integration Suite and APIs.

Example: Syncing sales data with an external CRM.

4.3 Data and Analytics

Enables storage and processing of enterprise data.

Provides real-time reporting and dashboards.

Uses SAP HANA Cloud and SAP Analytics Cloud.

Example: Sales performance analytics dashboard.

4.4 Artificial Intelligence and Advanced Technologies

Includes AI, machine learning, and automation capabilities.

Improves business decisions and efficiency.

Example: Predictive maintenance solutions.

5. SAP BTP Account Structure

Global Account represents the organization.

Subaccounts are used to deploy applications.

Environments define runtime such as Cloud Foundry or Kyma.

Spaces separate development, testing, and production stages.

6. SAP BTP Services

Services are ready-to-use cloud capabilities.

Include database, security, and connectivity services.

Help reduce development effort.

Example: Destination service for system connectivity.

7. Security in SAP BTP

Uses role-based authorization.

Supports secure authentication mechanisms.

Integrates identity providers for user management.

Ensures data security and compliance.

8. Clean Core Principle

Avoids modifying core SAP systems.

Custom logic is developed on SAP BTP.

Ensures easy upgrades and system stability.

Example: Custom tax logic built on BTP.

9. Benefits of SAP BTP

Cloud-native and scalable.

Supports faster innovation.

Highly secure platform.

Compatible with SAP and non-SAP systems.

10. Conclusion

SAP BTP is a future-ready cloud platform.

It enables innovation while keeping SAP core systems stable.

Plays a vital role in digital transformation strategies.