SAP BTP Course

Module 1: Introduction to SAP BTP

- What is SAP BTP? Overview & architecture

- Key pillars of BTP:

Database & Data Management

Analytics

Application Development & Automation

Integration

- Differences between SAP BTP, SAP Cloud Platform (Private & Public), and on-premises SAP

- Global account, subaccounts, entitlements, quotas, environments

Module 2: BTP Account Model & Security

- BTP cockpit navigation

- Global Account, Subaccount, Spaces

- Identity Authentication Service (IAS) & Identity Provisioning Service (IPS)

- Role collections, authorizations, user management

- Connectivity & destinations

📌 Hands-on: Set up a trial BTP subaccount with role assignments

Module 3: SAP HANA Cloud & Data Management

- Introduction to SAP HANA Cloud (database-as-a-service)

- Schema, tables, views, HDI containers

- Core Data Services (CDS)

- Calculation views

- Accessing HANA Cloud with SAP Business Application Studio (BAS)

- Data provisioning with SDI/SDQ

📌 Mini Project: Create a database schema and query with CDS

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Module 4: Application Development on BTP

- SAP Business Application Studio (BAS) overview

- **Cloud Foundry Environment** basics

- Node.js, Java, and Python runtimes

- **CAP** (Cloud Application Programming) model

Entities, services, annotations, Draft Handling, Approuter

OData V2/V4 & REST APIs with CAP

- Multitarget Applications (MTA) deployment

📌 Mini Project: Build a CAP-based service with OData API

Module 5: ABAP Environment basics

- **EML**

- **RAP** (RESTful Application Programming) model

Entities, services, annotations, Draft Handling

OData V2/V4 & REST APIs with RAP

📌 Mini Project: Build a RAP-based service with OData API

Module 6: SAP Fiori & UI Development on BTP

- Introduction to Fiori Elements & SAPUI5

- Developing apps with BAS

- UI5 Freestyle vs Fiori Elements apps

- Consuming OData services in UI5 apps

- Launchpad service & app deployment

📌 Mini Project: Create & deploy a Fiori Elements app on BTP

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Module 7: Integration Suite

- Overview of SAP Integration Suite

- Cloud Integration (iFlows, adapters, APIs)

- API Management (create, secure, publish APIs)

- Event Mesh (event-driven architecture)

- Connectivity with on-prem systems via Cloud Connector

📌 Mini Project: Connect an on-prem SAP S/4HANA system with BTP via Integration Suite

Module 8: Analytics & Planning on BTP

- SAP Analytics Cloud (SAC) overview

- Data modeling, visualizations, and dashboards

- Live vs import data connections

- Predictive analytics in SAC

- Integration with HANA Cloud

📌 Mini Project: Create a sales dashboard in SAC using HANA Cloud data

Module 9: Extensions & Automation

- Extending SAP S/4HANA with BTP

- Side-by-side vs in-app extensions (Developer & Key User)

- SAP Workflow Management

- SAP Business Rules Service

- SAP Process Automation (iRPA) basics

📌 Mini Project: Automate a leave approval workflow with SAP Workflow Service

Module 10: Advanced Topics

- Kyma runtime & Kubernetes basics

- Multi-cloud strategy (AWS, Azure, GCP integration)

- Event-driven applications with Kyma + Event Mesh

- Security best practices (XSUAA, OAuth2, SAML, JWT)

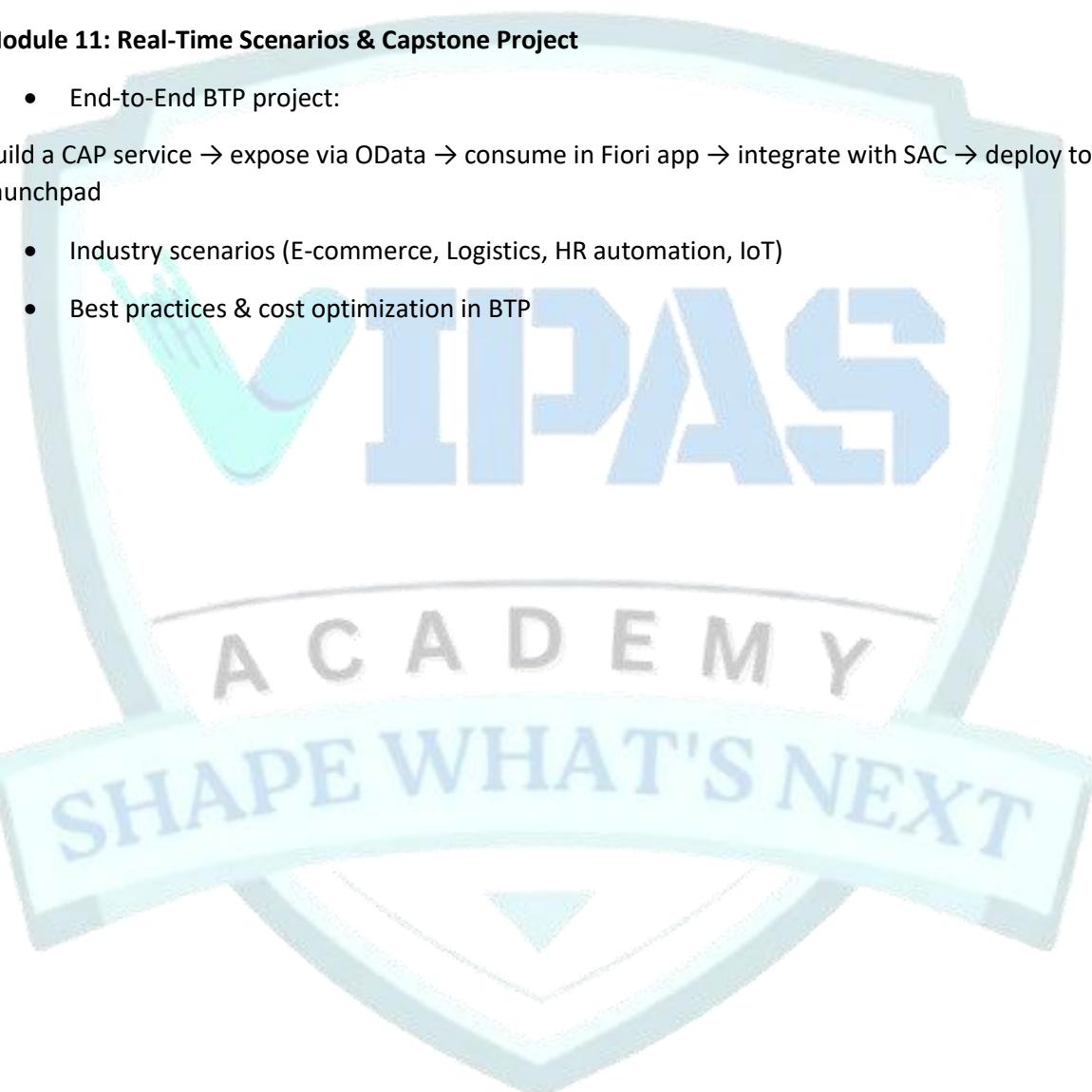VipasAcademy@gmail.com **|**   Phone: +91 9966652099

- DevOps on BTP: CI/CD with GitHub Actions & Jenkins

Module 11: Real-Time Scenarios & Capstone Project

- End-to-End BTP project:

Build a CAP service → expose via OData → consume in Fiori app → integrate with SAC → deploy to Launchpad

- Industry scenarios (E-commerce, Logistics, HR automation, IoT)

- Best practices & cost optimization in BTP

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