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Teaching Style: https://www.youtube.com/watch?v=TJzQ18jUUhA
Day1 Demo: https://www.youtube.com/watch?v=7koNr8DUAHc
Real-World BTP Project Overview: https://www.youtube.com/watch?v=EOYMSej9Dgk

DAY1 - Chapters

1. Preface:

1.1 SAP Technology Evaluation
Brief History of SAP Technology Evaluation

1.2 Basics of Application Development
Software and Application Development Components:
Infrastructure, OS, Application Runtime

1.3 On-Premise Vs Cloud Computing
On-Prem, IaaS, Paas, SaaS

2. Introduction to BTP Developments:

2.1 Motivation of SAP BTP
Data lake, Keep Core Clean, Integration Flexibility, Agility,
Modern UX, Faster Business Insights, Innovation & Automation

2.2 BTP Application Development Environment
Cloud Foundry, Kyma, neo, ABAP

3 Detailed Architecture of Cloud Foundry
Cloud Foundry 3D architecture.
Routing & Auth Layer, Application Lifecycle, App Store and
Execution, Services, Msg & Log

2.5 – 3 HRS

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DAY2 Chapters

4. BTP Management

4.1 Data Centre - Regions
Overview of BTP Data centres.
Discovery Centre.

4.2 BTP Landscape
Global Account, Subaccount, Space
Practical Overview of BTP landscape in 3D Model

4.3 Hands-On ★
BTP Landscape Setup,
User Onboarding, Service Enablement, HANA Cloud setup

5. Preparing for BTP app development

4.1 Cloud Foundry Development Tools & IDEs
CF CLI, SAP BAS, VS Code

4.2 CF CLI Commands
Cloud Foundry Commands

6. Hands-On ★
"Hello World" from BTP using NodeJS

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2.5 – 3 HRS

DAY3 Chapters

6. Developer Perspective (Continue from Day 2...)
6.1 BAS Overview
6.2 Rebuild the "Hello World" Application in BAS ⭐

7. BTP App with 3rd party API data ⭐⭐⭐
7.1 What to Build - Weather App Demo
7.2 API test in Postman (rest client)
7.3 Hands-On : Build & Deploy weather app in BTP

8. Application Scaling ⭐
8.1 Horizontal scaling
8.2 Vertical scaling
8.3 Hands-On

9. Code Version Management ⭐⭐
9.1 Git Overview
9.2 Hands-On : Git

2.5 – 3 HRS

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DAY 4

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DAY4 Chapters

10. Developer Perspective

10.1 BTP Development Architecture with 3D model

11. Architecture for SAP CAPM in 3D Model

11.1 CAPM structure explanation from development perspective (file/folder structures)

11.2 Why CAPM ?

11.3 Database Layer (CDS, HDI, DB Artifacts, CDL, CQL)

11.4 Application Layer (Data sources, CDS Service, CDS Connect, CDS QL, CDS Users, CDS logs

11.5 Presentation Layer (View, Controller, CDS Annotations)

12. Setup for CAPM Application Development ★★

12.1 HANA Cloud and Service instance

12.2 BAS – Business Application Studio

12.3 Data Structure – Computer Shop Application

12.4 Design time Artifacts and Runtime Objects Concepts

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2.5 – 3 HRS

13. Hands-On . CAPM (Backend = DB + SRV) ★★

13.1 Build Computer shop Application with Low-Code
Approach (SRV + DB)
13.2 Explanation of mta.yaml file
13.3 Deploy Application Backend to BTP Cloud Foundry
13.4 Test deployed Service API (OData) from Postman –
CRUD Operation

★

14. Application Security

14.1 Authentication & Authorization
Concepts with Examples
14.2 Secure backend service using Approuter
and XSUAA
14.3 Hands-On : Secure your backend
service

2.5 – 3 HRS

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DAY6 Chapters

15. Hands-On . User Interface ★
15.1 Create Destination
15.2 Build UI5 application with low-code
15.3 Create SO Create FIORI Element app
15.4 Create SO Display FIORI Element app
15.5 Deploy UI/FIORI application in BTP

16. Central Launchpad ★
16.1 Cloud Launchpad Service
16.2 Create Site
16.3 Content Provider, Content Explorer
16.4 Create Group
16.2 Test UI for CRUD operation
Code Repo..

17. BTP Application Extension (Side-by-Side)
Architecture(s) – Side-by-side
17.0 Side-by-side Vs. In-App
Vs. Custom Development
17.1 API First Architecture
17.2 API First & SDI Architecture
17.3 CPI Centric Architecture
17.4 Event Driven Architecture

2.5 – 3 HRS

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DAY7 Chapters

18. HANA Application Development in BTP ★ ★
18.1 SAP HANA Native Application Dev Space (BAS)
18.2 Realize SDI Architecture again
18.3 Architecture for SDI Data Access
18.4 SDI/HANA project prerequisites check
18.5 HDI Container – more details
18.6 S/4 HANA or ECC data integration with SDI
(Virtual Tables, Calculation Views)
18.7 All possible data integrations with SDI

19. Real-world Use-Case of BTP
19.1 API First & SDI Architecture
19.2 Case Study on real-world use case..
S/4 HANA Extension application (Ex: Sales Order)
SDI (Smart Data Integration)
HANA Cloud
Data Models
CAPM Service building
Chatbot using CAI
Cloud Workflow
Job Scheduling
Alert Notification
SAC overview
BAS – Destination Service – App Security – cTMS

2.5 – 3 HRS

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DAY8 Chapters

20. HANA Cloud Architecture

20.1 HANA as multi-model DB & Platform

20.2 HANA Architecture in 3D

20.3 Containerization Methodology
& Best Practice

20.4 Cross Container Access Technique

21 HANA Cloud Hands-On ★★★★★
[Cross Container Access]

21.1 Build HANA project (master, sales) containers
Replication Task, Flowgraph

21.2 Work on container roles

21.3 Build CAPM project as consumer for
Containers

21.4 Synonym options
(UPS & Dynamically schema access)

21.4 Work on Synonym (with grants)

21.5 Test CAPM service with S/4 data validation

2.5 – 3 HRS

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DAY9 Chapters

22. HANA Cloud Artifacts
22.1 Classic Schema Artifacts
22.2 Container Artifacts
22.3 Troubleshooting with Diagnostic
files

23. Business Logics options
Calculation View
Database Procedure
CAPM NodeJS

24. Cloud Workflow Hands-On ★ ★ ★
WF Inbox
WF Builder
Build Purchase Requisition WF in BAS
Test end-to-end Scenario with Security mechanism
Code Repo..

25. S/4 HANA OData Analysis (API Business Hub) ★

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DAY10 Chapters

26. Job Scheduling ★

Job Schd. Service
Call CAPM function form Job Schd.
Create SO in S/4 HANA

27. SAP BTP Intelligent Technologies

27.1 SAP Conversational AI (Chatbot) ★★★
a) Introduction
b) Intent, Expression, Entity,
c) Prompt, Skills
d) SAP CAI Framework
e) Chatbot Architecture
f) Hands-On (FAQ Bot)
g) Hands-On (Car Rental Bot)
h) STT-TTS

2.5 – 3 HRS

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DAY11 Chapters

28. SAP AI Business Services ★

a) Understand All AI Services
b) Hands-On – Document Information
Extraction Service

29. Learnings so far...

end-to-end real-world BTP
Project realization
Code Repo..

30. AppGyver ★★

a) Low/No Code App Development
b) Static View
c) List/Object page with backend data
d) Mobile functionality – Scan product
to get details

2.5 – 3 HRS

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DAY12 Chapters

31. TMS - CI/CD – Alert Notification ★ ★ ★
a) Transport Object/App/Service (TMS)
b) Automate Transport
c) CI/CD – Continuous Integration &
Continuous Delivery
d) Get Alert of Deployment in Outlook
Email

32. BTP Development Personas
33. BTP Pricing Model
34. BTP Certifications

2.5 – 3 HRS

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