| **Topic** | **Elementary** | **Basic** | **Advanced** | **Expert** |
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| **Business Technology Platform** | | | | |
| **General points** | 1. Know what a BTP is, its purpose. **1) Connect (to your systems)**   – Cloud Connector  – SAP Integration Suite  -..  **2) Build endpoint** (choose your programming model)  – Workflow Management  – Cloud Application Programming Model (CAP): Java, NodeJS  – ABAP Restful Programming Model (RAP): ABAP  -..  **3) Add Channels (add a GUI)**  – SAP UI5, Fiori  – Mobile  -..  **4) Deploy and operate** (choose your runtime)  see next chapter   1. Know what platform as a service means. 2. Know what environments BTP has and purpose / use cases for each one:    1. CF Cloud Foundry (CF) is an open-source, industry standard for multi-cloud environments Unlike Neo, which is hosted by SAP, CF can be hosted on any of the big 4 hyperscalers (AWS, Microsoft Azure, Google Cloud Platform and Alibaba Cloud, as well as OpenStack. The PaaS (platform as a service) offering hides the runtime and OS (and everything underneath, like virtualization and bare-metal), so that you can focus on your application and the data. CF also covers the deployment and management of the apps, taking care of dependencies via so-called “buildpacks”: languages like Java, Node.js, Ruby and others are supported    2. NEO supports Java, SAP HANA XS and HTML5 <https://help.sap.com/viewer/b017fc4f944e4eb5b31501b3d1b6a1f0/Cloud/en-US/b02b326062c34bf19ea1ab395bc9891f.html>    3. ABAP    4. Kyma | 1. Know the aspects BTP account model, ability to explain and name the purpose of each:    1. Global Account There are two types of global accounts: enterprise accounts (paid) and trial accounts (free)    2. Subaccount Subaccounts let you structure a global account according to your organization’s and project’s requirements with regard to members, authorizations, and entitlements.    3. Space spaces, which is where application development, deployment, and maintenance takes place    4. Entitlement the service plans    5. Quota A quota represents the numeric quantity that defines the maximum allowed consumption of a resource.    6. Directories | 1. Know what a multi tenancy is; details around it:    1. Provider    2. Consumer    3. Methods to achieve db/persistency multi tenancy    4. How to setup a subscription for an application    5. How to onboard a tenant    6. SaaS Provisioning service | \_empty\_ |
| **Multi Target applications** | 1. Know what a **Multi target application** is. 2. Know the **main components** of the mta.yml file:    1. Modules    2. Resource    3. Parameters    4. Properties | 1. Know what is module and main aspects of it:    1. Module name    2. Type    3. Specific params    4. Hooks    5. Build params 2. Know the resources aspects:    1. Types    2. Properties 3. Know what MTA Extension descriptor is. | 1. Know concept of Blue-Green Deployment 2. Know how to configure Cross-MTA Dependencies 3. Know how to deploy Docker images as part of a Multitarget application and why it’s useful for? | \_empty\_ |
| **Application Router** | 1. Know what Approuter is and its main capabilities. 2. Understand difference between managed and standalone approuters. 3. Know how to configure Approuter:    1. authorisation    2. destinations | 1. Know how to configure Approuter in details:    1. welcomeFile    2. authMethod    3. logout    4. destinations    5. services    6. websockets    7. errorPage    8. CORS 2. Understand how session handling works 3. Know how to make a sessions backup | 1. Know how to integrate Aprouter with a Business Service 2. Know how to expose Approuter for SaaS subscription (multitenancy) | \_empty\_ |
| **Authorisation and authentication** | 1. Understand difference between authorisation and authentication 2. Know what UAA is and its use cases. Scopes role-templates   tenant-mode  **Service provider (SP)**, the server that receives the assertion. This is typically UAA.   1. Know what IDP is. **Identity provider (IDP)**, the server that receives the authentication request, authenticates the user and sends the assertion to the SP. | 1. Know how to setup application security file:    1. scopes    2. role-templates 2. Know what is a role and how to create it. 3. Know what a Role Collection is and how to create it. 4. Understand how to use defined scopes/attributes in a code. 5. Know what JWT is and its structure. | 1. Understand a difference between UAA and XSUAA 2. Be able to explain who need to create the following XSUAA artifacts and in what precedence:    1. scopes    2. Role-templates    3. Roles    4. Role collections 3. Understand how to configure custom identity provider and map user groups to role collections 4. How to communicate with XSUAA API and get a JWT via:    1. Client Credential Grant    2. Authorisation Code Grant | \_empty\_ |