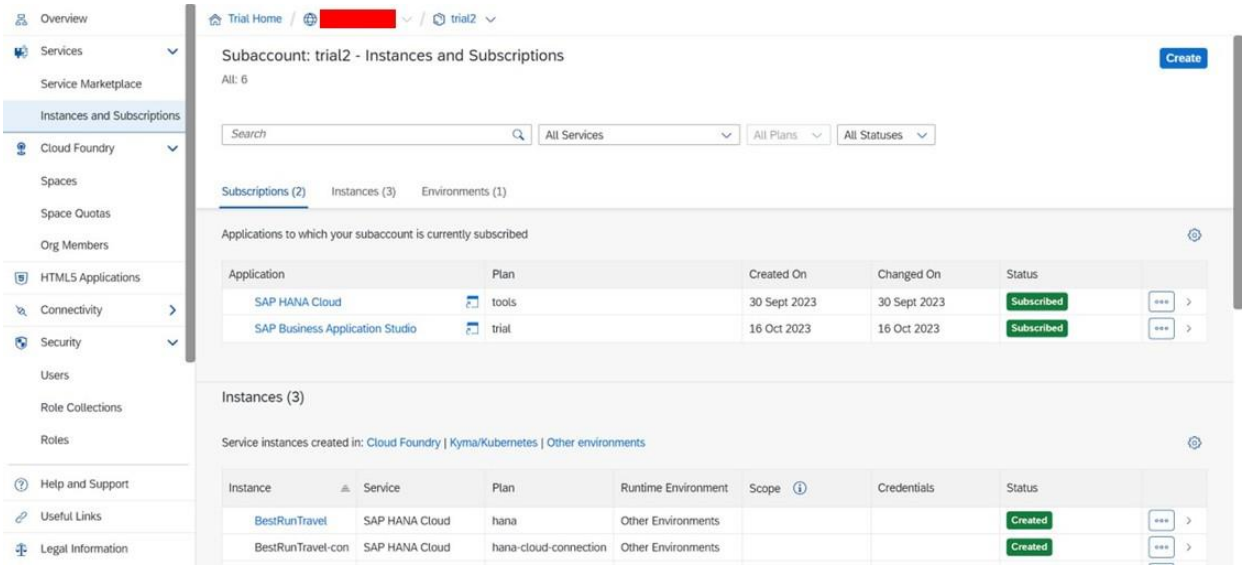
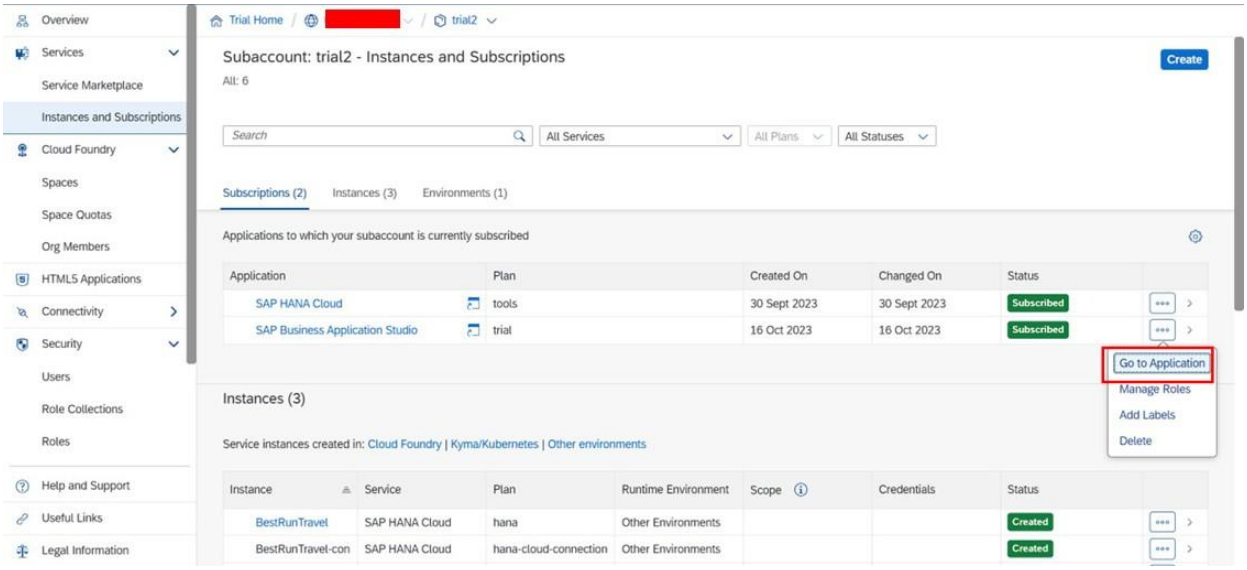
Nama : Riski Hartanto Saragih

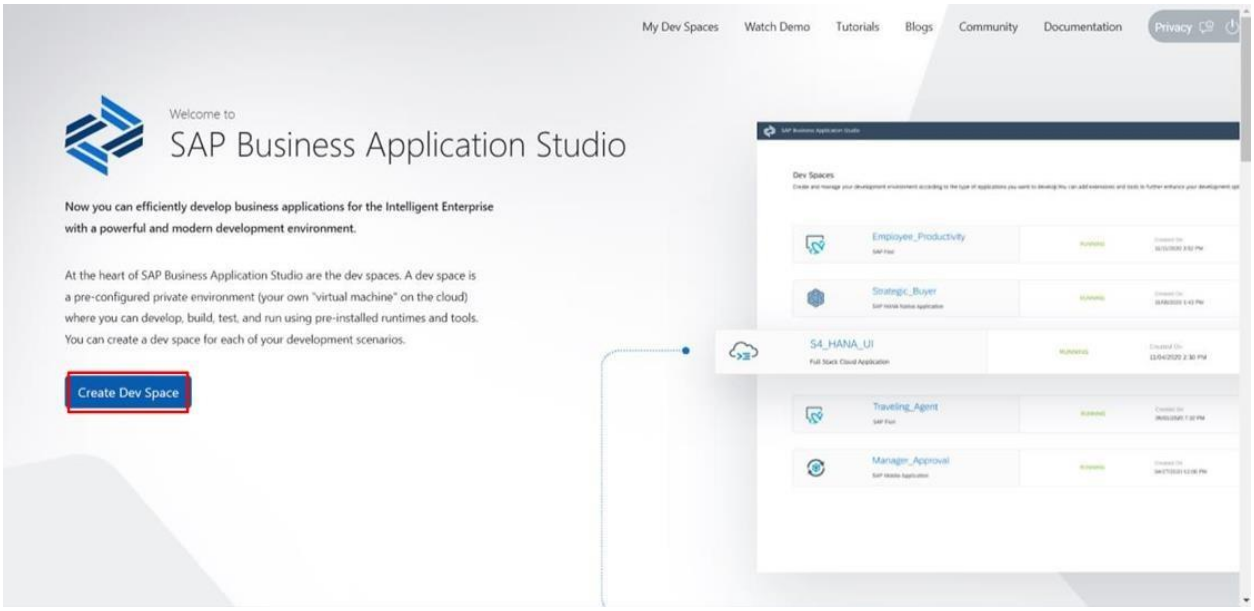
NIM : 201402112

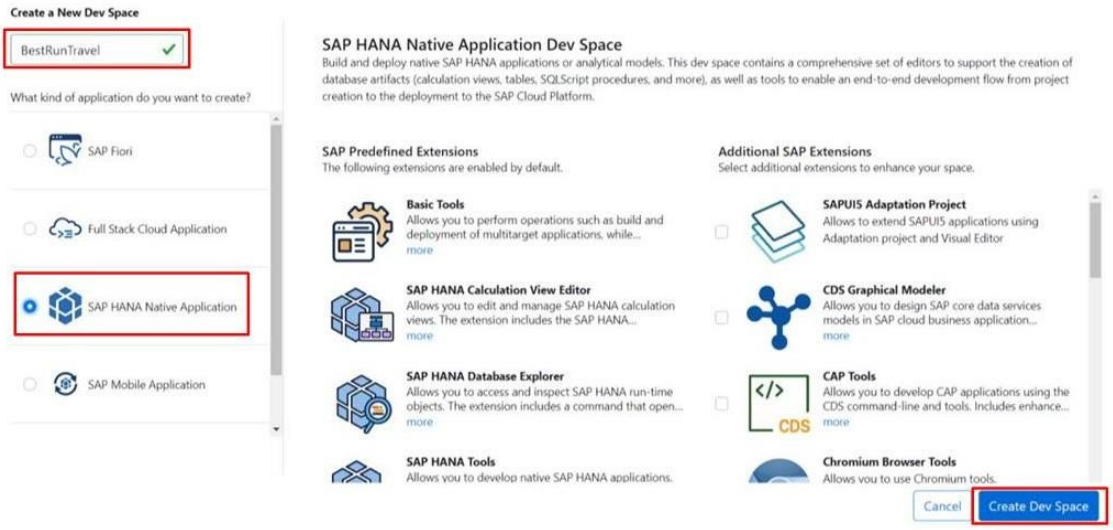
Mata Kuliah : Enterprise Development Software

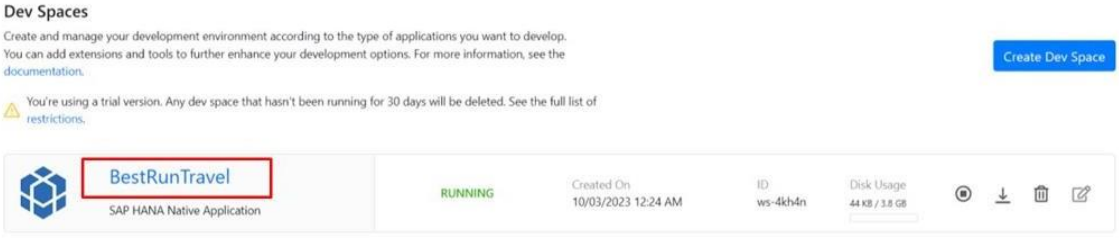
6. Setting up your first HANA project in SAP Business Application Studio

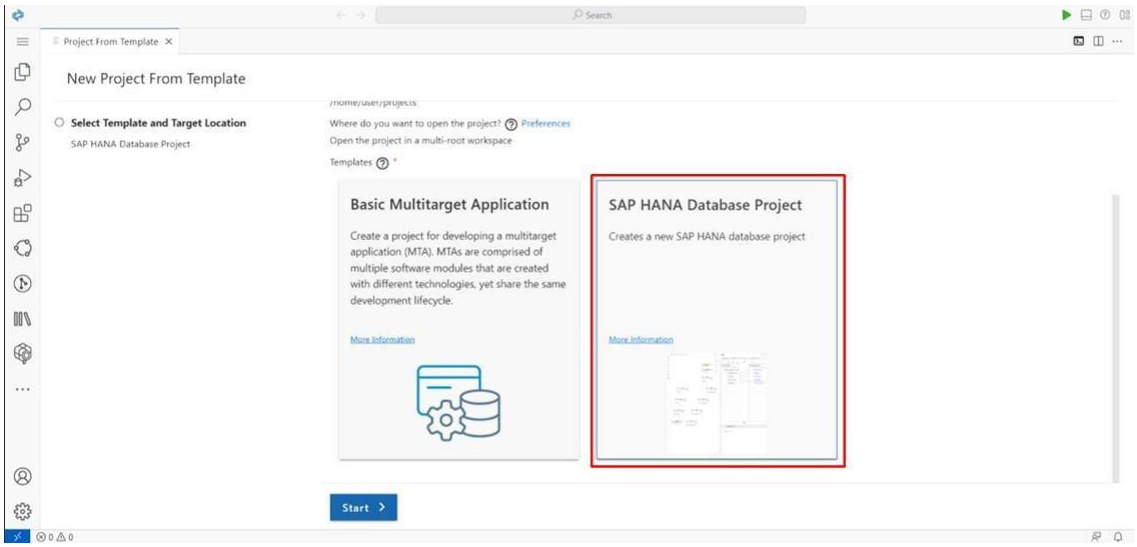


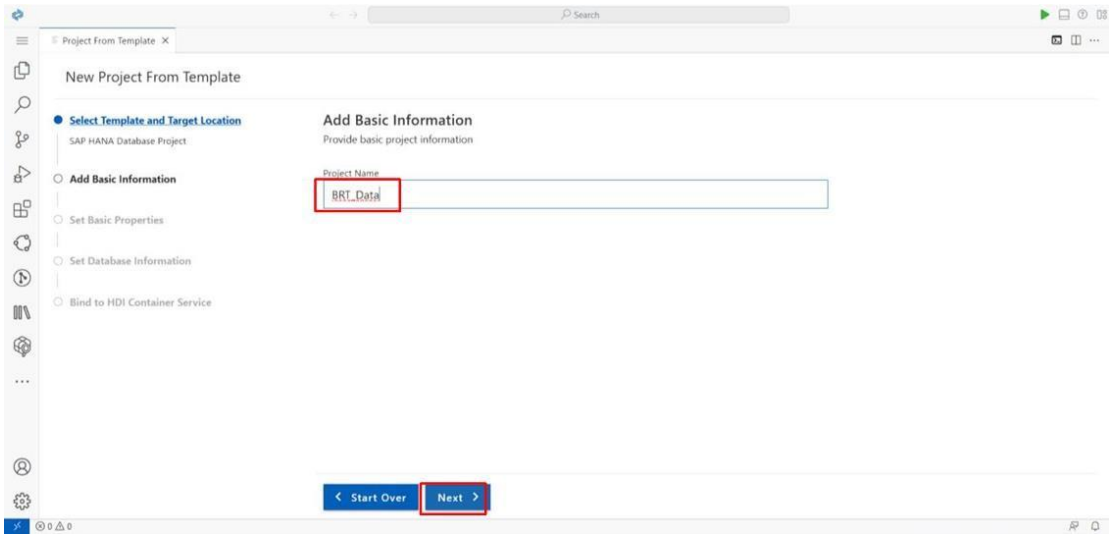


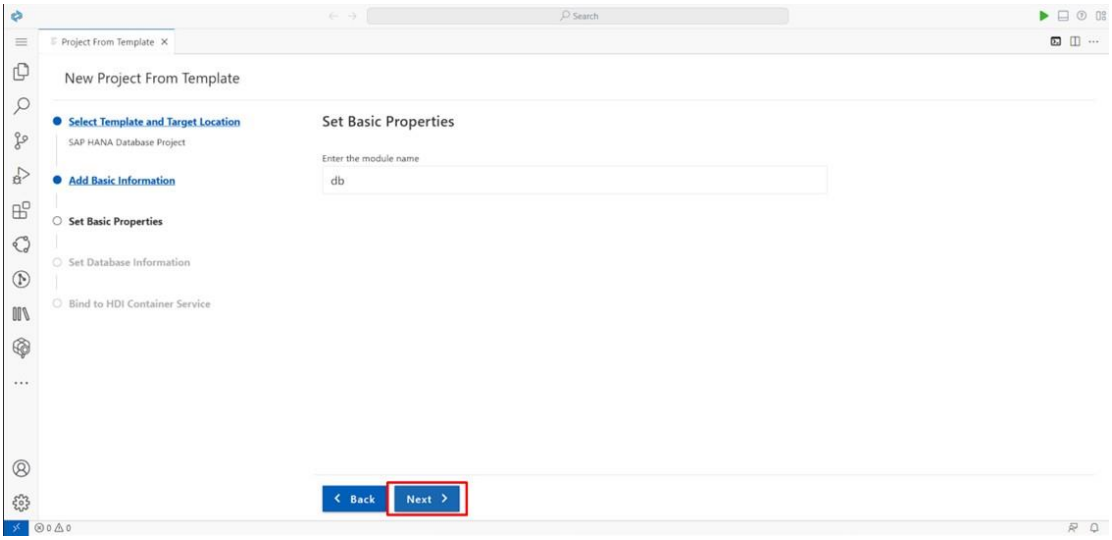

My Dev Spaces
Watch Demo
Tutorials
Blogs
Community
Documentation
Privacy
Welcome to
SAP Business Application Studio
Now you can efficiently develop business applications for the Intelligent Enterprise with a powerful and modern development environment.
At the heart of SAP Business Application Studio are the dev spaces. A dev space is a pre-configured private environment (your own "virtual machine" on the cloud) where you can develop, build, test, and run using pre-installed runtimes and tools. You can create a dev space for each of your development scenarios.
Create Dev Space
Employee_Productivity
Strategic_Buyer
S4_HANA_UI
Traveling_Agent
Manager_Approval

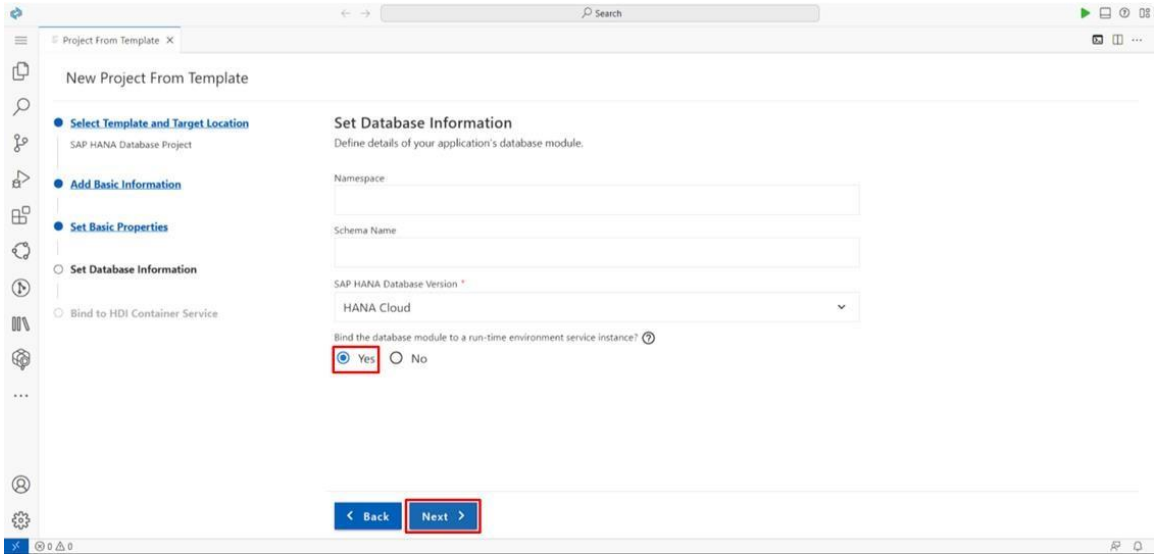

Create a New Dev Space
BestRunTravel
What kind of application do you want to create?
SAP Fiori
Full Stack Cloud Application
SAP HANA Native Application
SAP Mobile Application
SAP HANA Native Application Dev Space
Build and deploy native SAP HANA applications or analytical models. This dev space contains a comprehensive set of editors to support the creation of database artifacts (calculation views, tables, SQLScript procedures, and more), as well as tools to enable an end-to-end development flow from project creation to the deployment to the SAP Cloud Platform.
SAP Predefined Extensions
The following extensions are enabled by default.
Basic Tools
Allows you to perform operations such as build and deployment of multitarget applications, while...
more
SAP HANA Calculation View Editor
Allows you to edit and manage SAP HANA calculation views. The extension includes the SAP HANA...
more
SAP HANA Database Explorer
Allows you to access and inspect SAP HANA run-time objects. The extension includes a command that open...
more
SAP HANA Tools
Allows you to develop native SAP HANA applications.
Additional SAP Extensions
Select additional extensions to enhance your space.
SAPUI5 Adaptation Project
Allows to extend SAPUI5 applications using Adaptation project and Visual Editor
CDS Graphical Modeler
Allows you to design SAP core data services models in SAP cloud business application...
more
CAP Tools
Allows you to develop CAP applications using the CDS command-line and tools. Includes enhance...
more
Chromium Browser Tools
Allows you to use Chromium tools.
Cancel
Create Dev Space

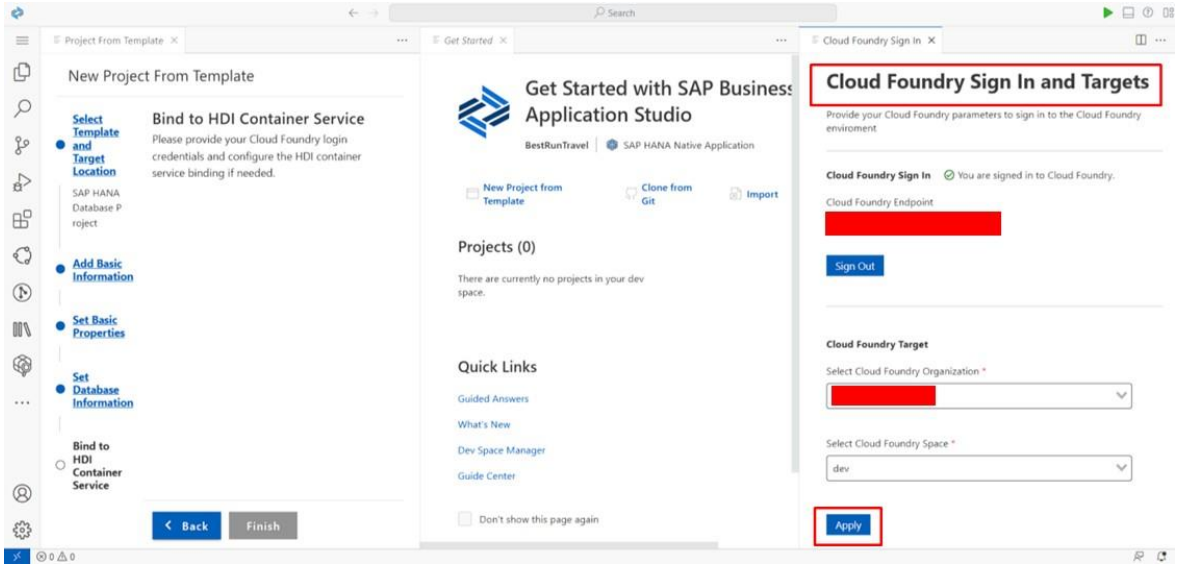

Dev Spaces
Create and manage your development environment according to the type of applications you want to develop. You can add extensions and tools to further enhance your development options. For more information, see the documentation.
Create Dev Space
You're using a trial version. Any dev space that hasn't been running for 30 days will be deleted. See the full list of restrictions.
BestRunTravel
SAP HANA Native Application
RUNNING
Created On
10/03/2023 12:24 AM
ID
ws-4kh4n
Disk Usage
44 KB / 3.8 GB

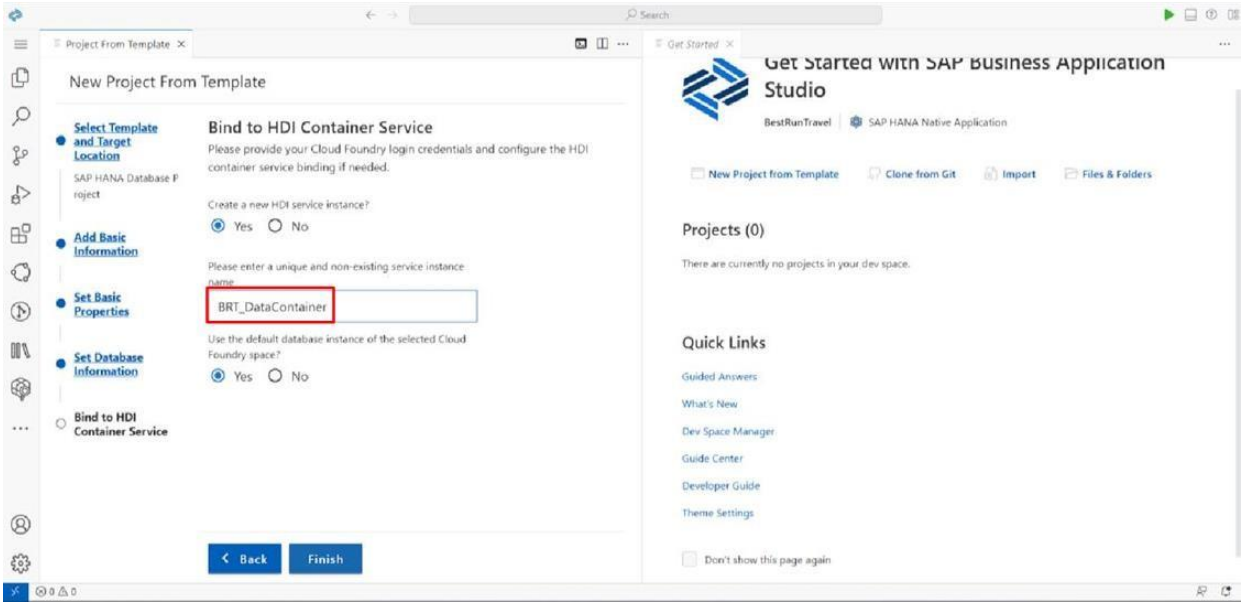

Project From Template
New Project From Template
Select Template and Target Location
SAP HANA Database Project
Where do you want to open the project?
Preferences
Open the project in a multi-root workspace
Templates
Basic Multitarget Application
Create a project for developing a multitarget application (MTA). MTAs are comprised of multiple software modules that are created with different technologies, yet share the same development lifecycle.
More Information
SAP HANA Database Project
Creates a new SAP HANA database project
More Information
Start

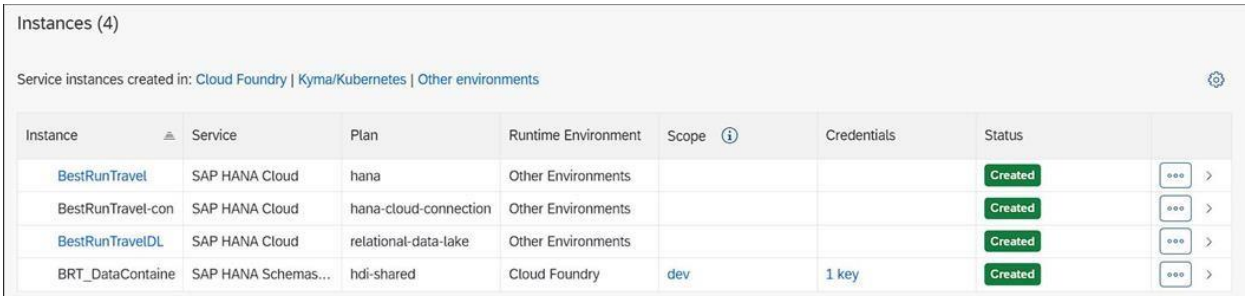

Project From Template
New Project From Template
Select Template and Target Location
SAP HANA Database Project
Add Basic Information
Set Basic Properties
Set Database Information
Bind to HDI Container Service
Add Basic Information
Provide basic project information
Project Name
BRT_Data
Start Over
Next

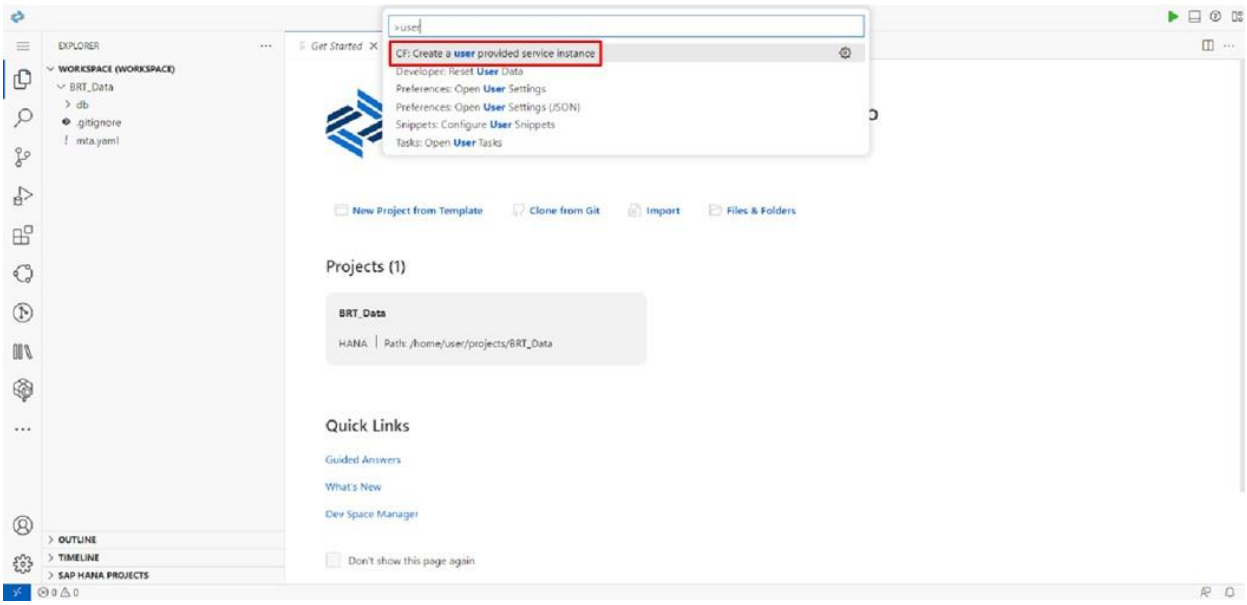

Project From Template
New Project From Template
Select Template and Target Location
SAP HANA Database Project
Add Basic Information
Set Basic Properties
Set Database Information
Bind to HDI Container Service
Set Basic Properties
Enter the module name
db
Back
Next

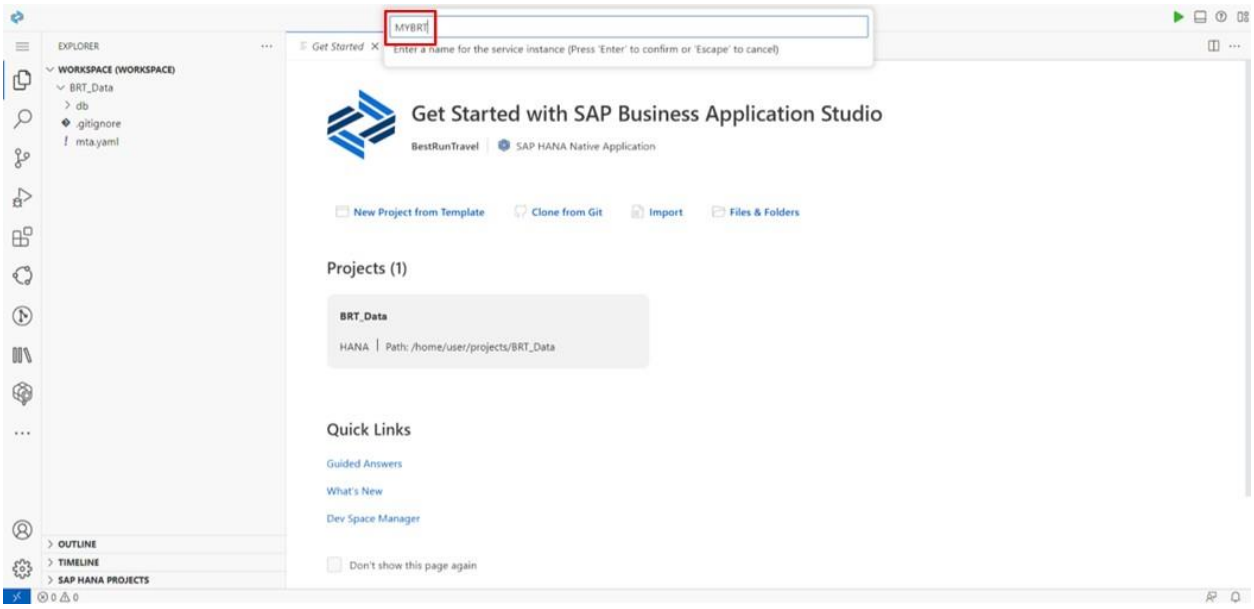

Search
Project From Template
New Project From Template
Select Template and Target Location
SAP HANA Database Project
Add Basic Information
Set Basic Properties
Set Database Information
Bind to HDI Container Service
Set Database Information
Define details of your application's database module.
Namespace
Schema Name
SAP HANA Database Version *
HANA Cloud
Bind the database module to a run-time environment service instance?
Yes
No
Back
Next


Search
Project From Template
Get Started
Cloud Foundry Sign In
New Project From Template
Select Template and Target Location
SAP HANA Database Project
Add Basic Information
Set Basic Properties
Set Database Information
Bind to HDI Container Service
Bind to HDI Container Service
Please provide your Cloud Foundry login credentials and configure the HDI container service binding if needed.
Back
Finish
Get Started with SAP Business Application Studio
BestRunTravel
SAP HANA Native Application
New Project from Template
Clone from Git
Import
Projects (0)
There are currently no projects in your dev space.
Quick Links
Guided Answers
What's New
Dev Space Manager
Guide Center
Don't show this page again
Cloud Foundry Sign In and Targets
Provide your Cloud Foundry parameters to sign in to the Cloud Foundry enviroment
Cloud Foundry Sign In
You are signed in to Cloud Foundry.
Cloud Foundry Endpoint
Sign Out
Cloud Foundry Target
Select Cloud Foundry Organization *
Select Cloud Foundry Space *
dev
Apply


Project From Template
New Project From Template
Select Template and Target Location
SAP HANA Database Project
Add Basic Information
Set Basic Properties
Set Database Information
Bind to HDI Container Service
Bind to HDI Container Service
Please provide your Cloud Foundry login credentials and configure the HDI container service binding if needed.
Create a new HDI service instance?
Yes
No
Please enter a unique and non-existing service instance name
BRT_DataContainer
Use the default database instance of the selected Cloud Foundry space?
Yes
No
Back
Finish
Get Started
Get Started with SAP Business Application Studio
BestRunTravel
SAP HANA Native Application
New Project from Template
Clone from Git
Import
Files & Folders
Projects (0)
There are currently no projects in your dev space.
Quick Links
Guided Answers
What's New
Dev Space Manager
Guide Center
Developer Guide
Theme Settings
Don't show this page again


Instances (4)
Service instances created in: Cloud Foundry | Kyma/Kubernetes | Other environments
Instance
Service
Plan
Runtime Environment
Scope
Credentials
Status
BestRunTravel
SAP HANA Cloud
hana
Other Environments
Created
BestRunTravel-con
SAP HANA Cloud
hana-cloud-connection
Other Environments
Created
BestRunTravelDL
SAP HANA Cloud
relational-data-lake
Other Environments
Created
BRT_DataContaine
SAP HANA Schemas...
hdi-shared
Cloud Foundry
dev
1 key
Created


EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
.gitignore
mta.yaml
>user
CF: Create a user provided service instance
Developer: Reset User Data
Preferences: Open User Settings
Preferences: Open User Settings (JSON)
Snippets: Configure User Snippets
Tasks: Open User Tasks
New Project from Template
Clone from Git
Import
Files & Folders
Projects (1)
BRT_Data
HANA | Path: /home/user/projects/BRT_Data
Quick Links
Guided Answers
What's New
Dev Space Manager
Don't show this page again
OUTLINE
TIMELINE
SAP HANA PROJECTS


MYBRT
Enter a name for the service instance (Press 'Enter' to confirm or 'Escape' to cancel)
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
.gitignore
mta.yaml
Get Started
Get Started with SAP Business Application Studio
BestRunTravel
SAP HANA Native Application
New Project from Template
Clone from Git
Import
Files & Folders
Projects (1)
BRT_Data
HANA | Path: /home/user/projects/BRT_Data
Quick Links
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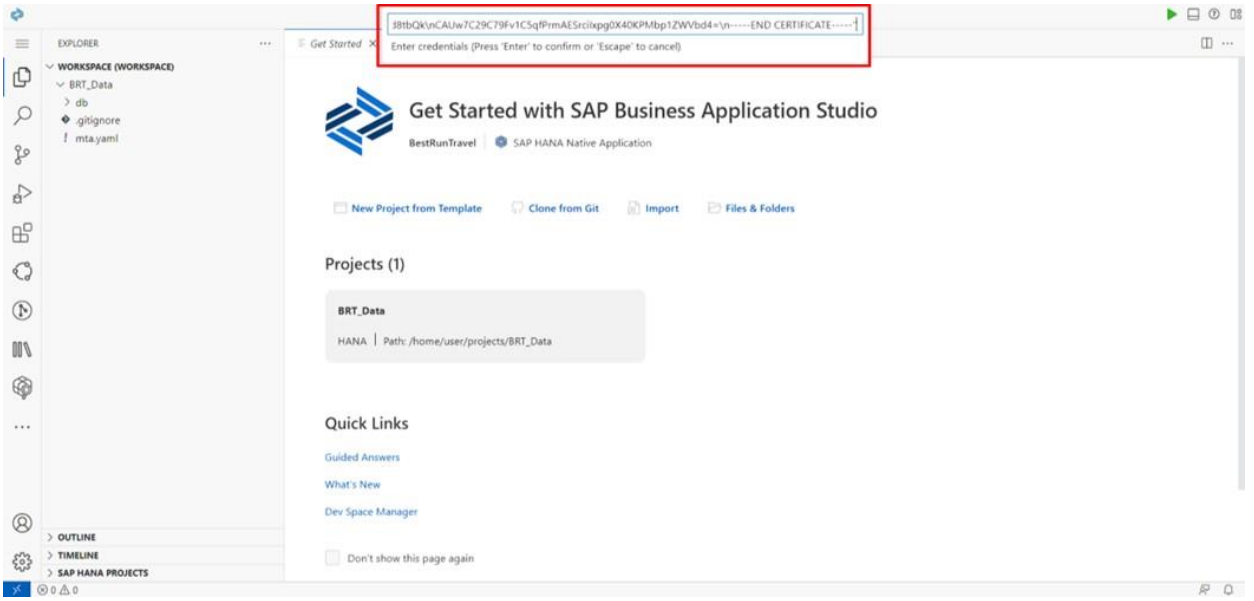
Don't show this page again
OUTLINE
TIMELINE
SAP HANA PROJECTS


J8tbQk\nCAUw7C29C79Fv1C5qfPrmAESrcilxpg0X40KPMbp1ZWVbd4=\n-----END CERTIFICATE-----
Enter credentials (Press 'Enter' to confirm or 'Escape' to cancel)
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
.gitignore
mta.yaml
Get Started
Get Started with SAP Business Application Studio
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New Project from Template
Clone from Git
Import
Files & Folders
Projects (1)
BRT_Data
HANA | Path: /home/user/projects/BRT_Data
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Don't show this page again
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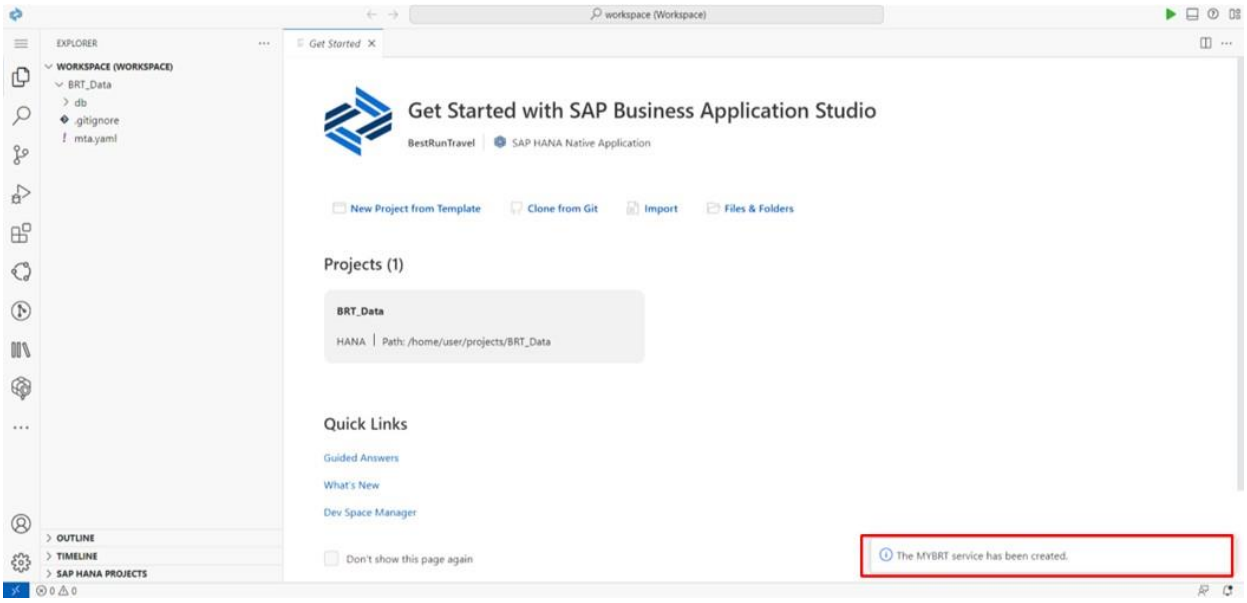
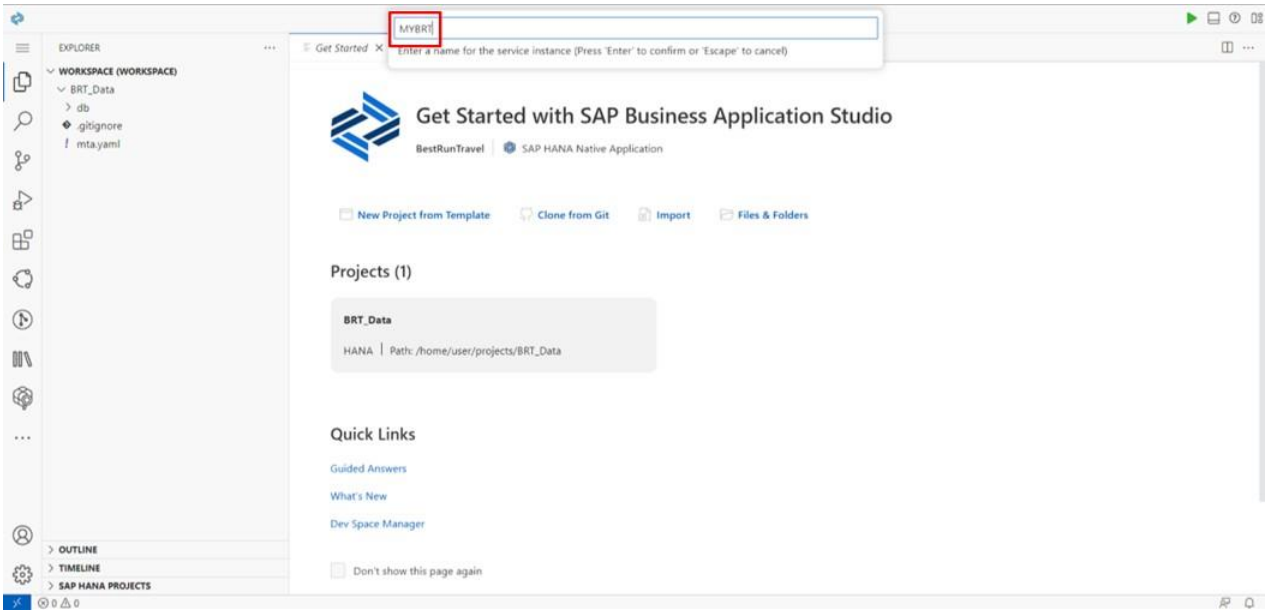
SAP HANA PROJECTS


workspace (Workspace)
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
.gitignore
mta.yaml
Get Started
Get Started with SAP Business Application Studio
BestRunTravel
SAP HANA Native Application
New Project from Template
Clone from Git
Import
Files & Folders
Projects (1)
BRT_Data
HANA | Path: /home/user/projects/BRT_Data
Quick Links
Guided Answers
What's New
Dev Space Manager
Don't show this page again
The MYBRT service has been created.
OUTLINE
TIMELINE
SAP HANA PROJECTS


MYBRT
Enter a name for the service instance (Press 'Enter' to confirm or 'Escape' to cancel)
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
.gitignore
mta.yaml
Get Started
Get Started with SAP Business Application Studio
BestRunTravel
SAP HANA Native Application
New Project from Template
Clone from Git
Import
Files & Folders
Projects (1)
BRT_Data
HANA | Path: /home/user/projects/BRT_Data
Quick Links
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Dev Space Manager
Don't show this page again
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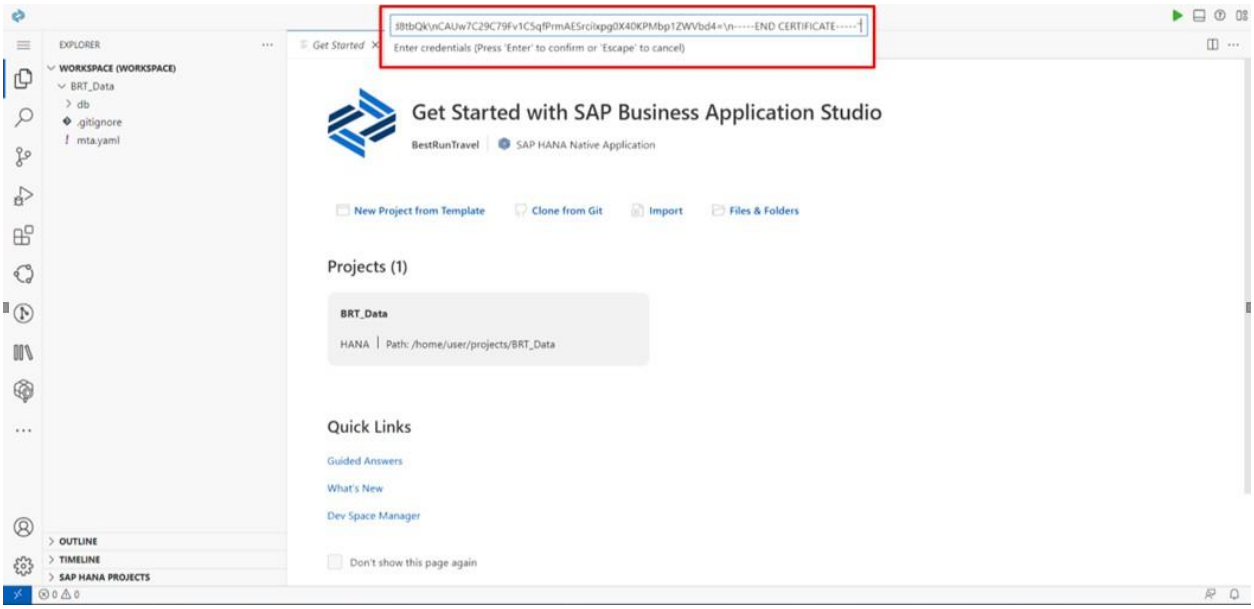
38tbQk\nCAUw7C29C79Fv1C5qfPrmAESrcilxpg0X40KPMbp1ZWVbd4=\n-----END CERTIFICATE-----
Enter credentials (Press 'Enter' to confirm or 'Escape' to cancel)
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
.gitignore
mta.yaml
Get Started
Get Started with SAP Business Application Studio
BestRunTravel
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New Project from Template
Clone from Git
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Files & Folders
Projects (1)
BRT_Data
HANA | Path: /home/user/projects/BRT_Data
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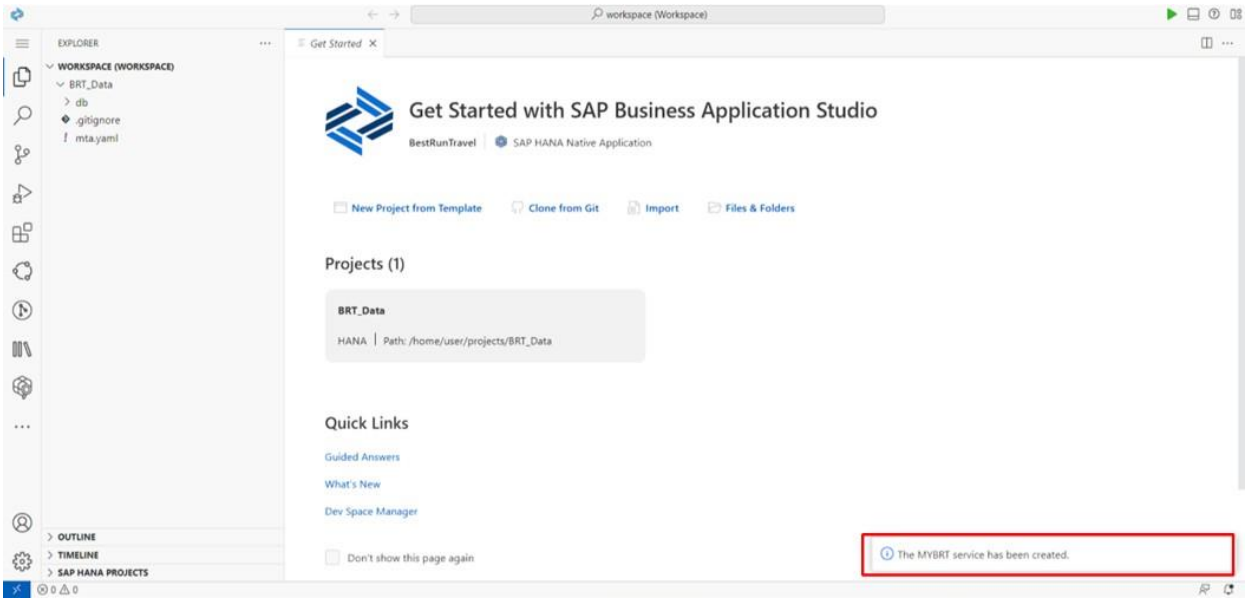
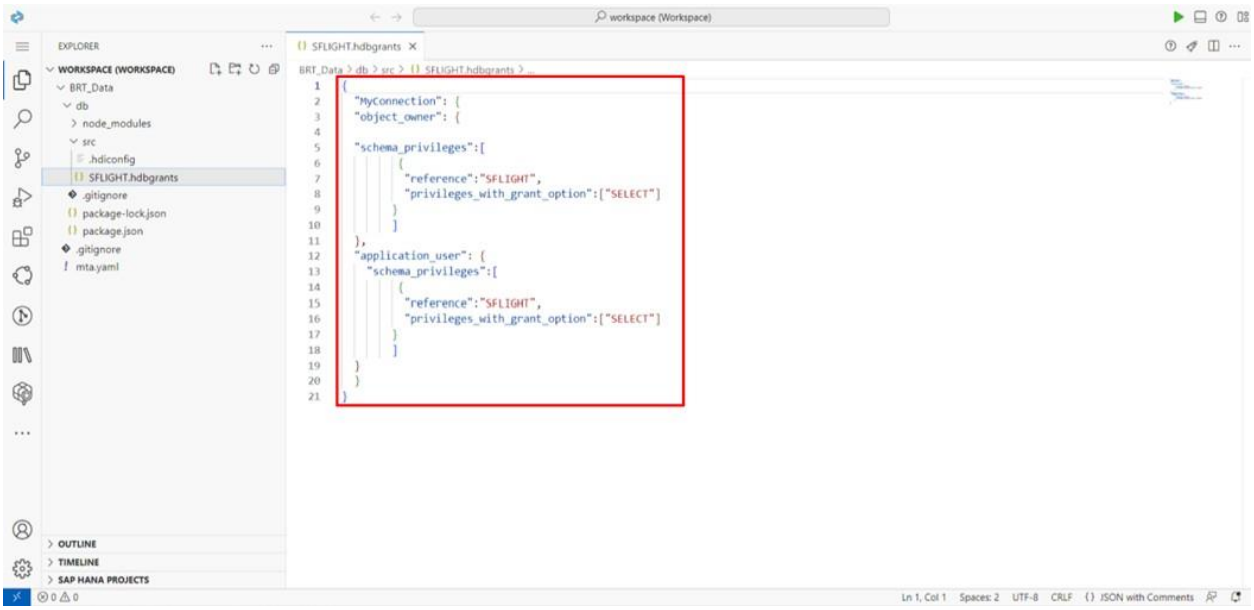
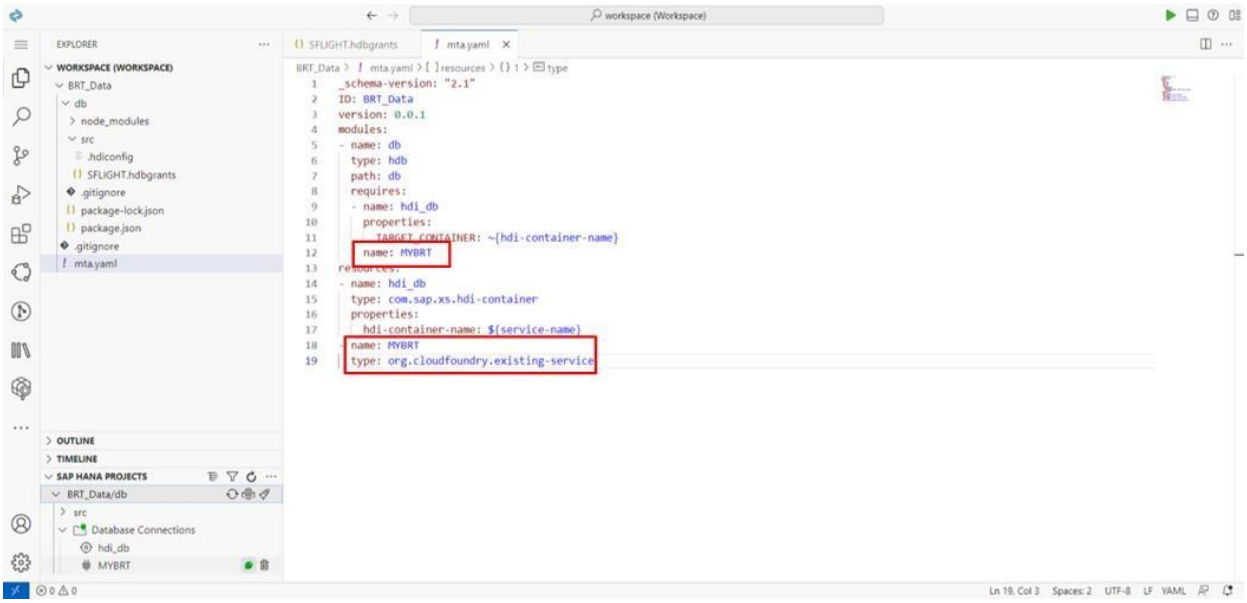
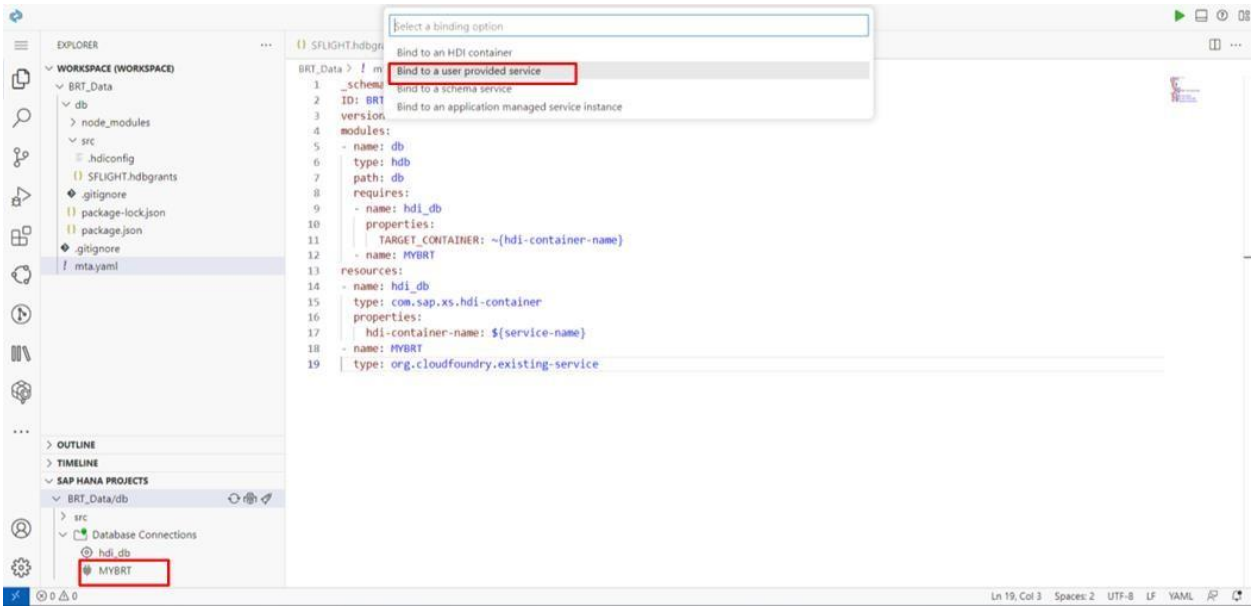
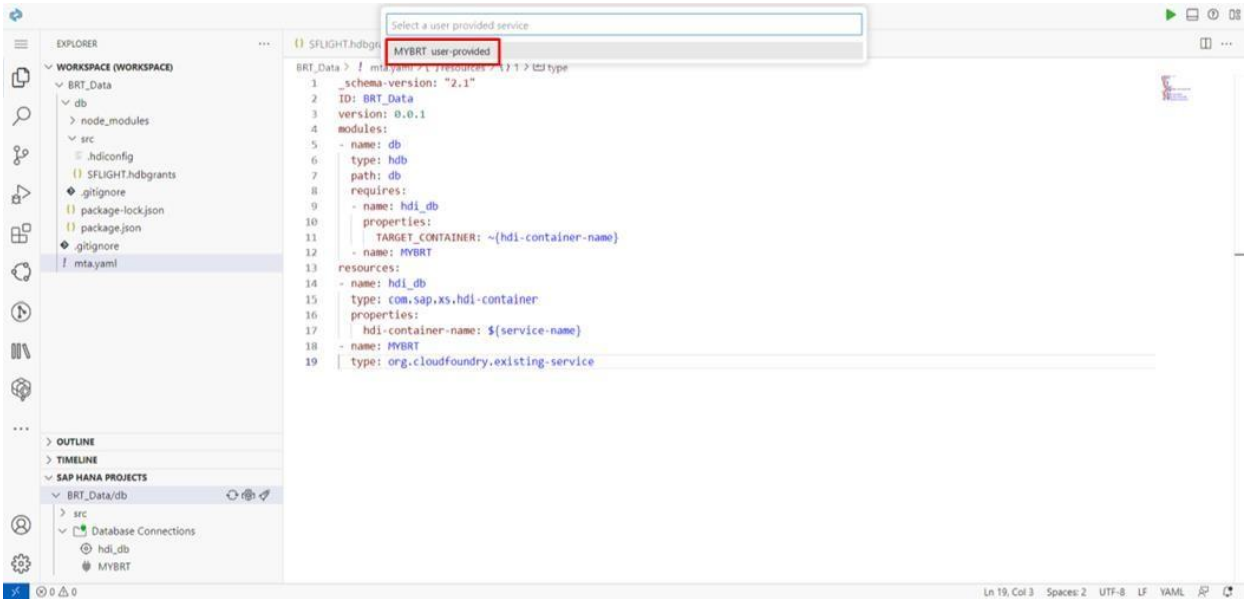
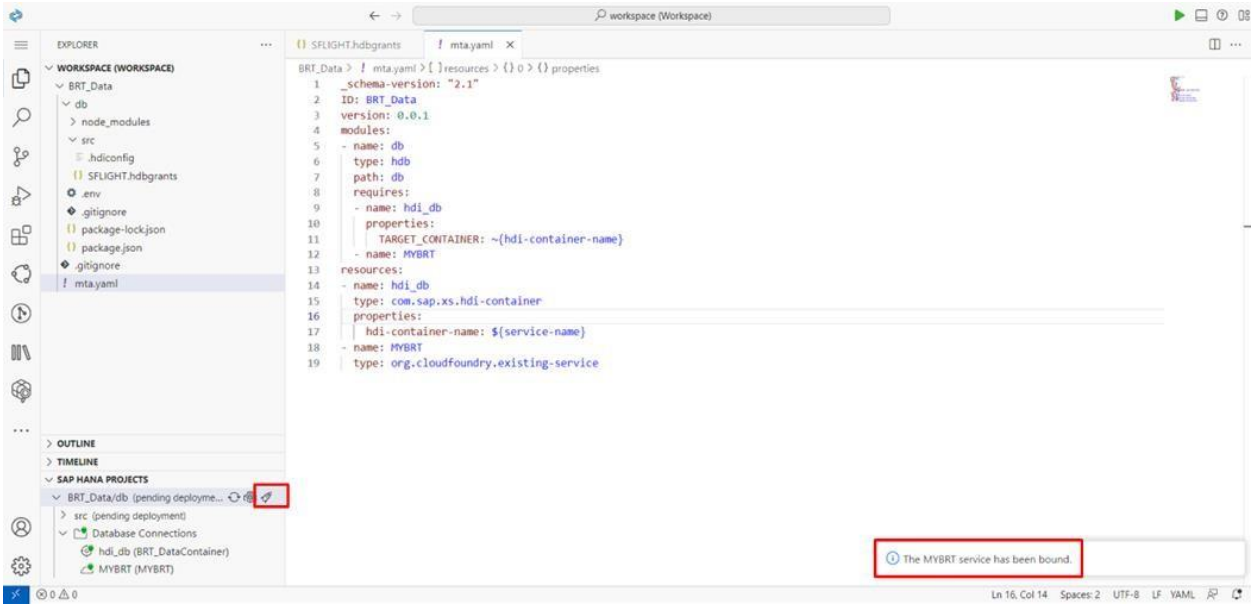

workspace (Workspace)
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
.gitignore
mta.yaml
Get Started
Get Started with SAP Business Application Studio
BestRunTravel
SAP HANA Native Application
New Project from Template
Clone from Git
Import
Files & Folders
Projects (1)
BRT_Data
HANA | Path: /home/user/projects/BRT_Data
Quick Links
Guided Answers
What's New
Dev Space Manager
Don't show this page again
The MYBRT service has been created.
OUTLINE
TIMELINE
SAP HANA PROJECTS

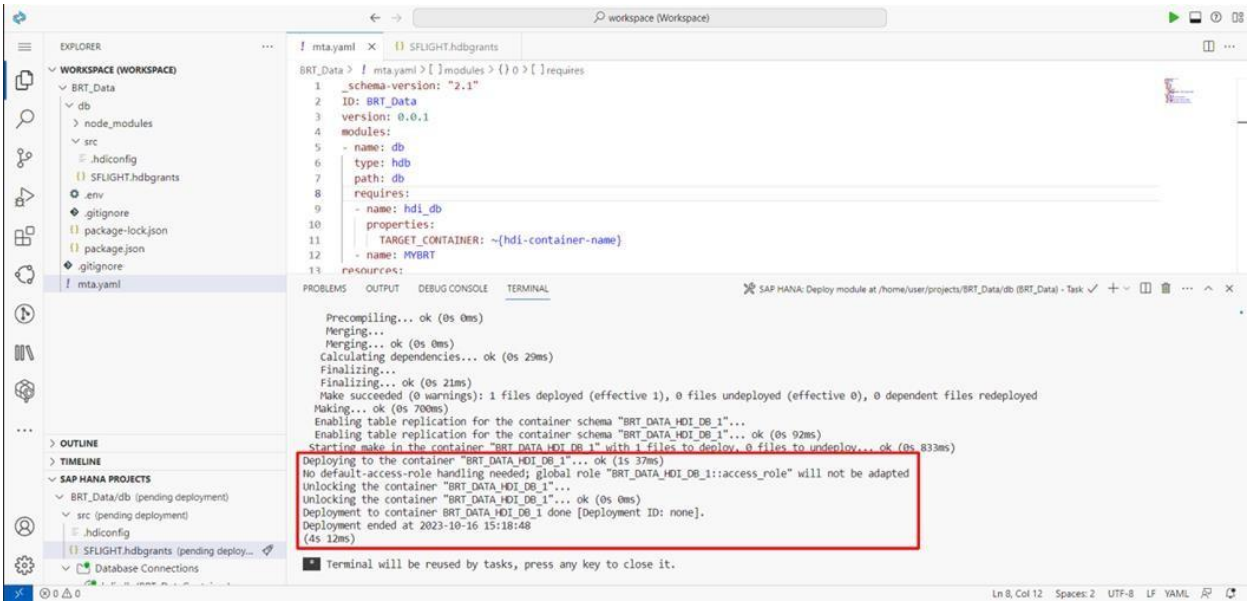

workspace (Workspace)
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
node_modules
src
.hdiconfig
SFLIGHT.hdbgrants
.gitignore
package-lock.json
package.json
.gitignore
mta.yaml
OUTLINE
TIMELINE
SAP HANA PROJECTS
SFLIGHT.hdbgrants
BRT_Data > db > src > SFLIGHT.hdbgrants > ...
{
"MyConnection": {
"object_owner": {
"schema_privileges":[
{
"reference":"SFLIGHT",
"privileges_with_grant_option":["SELECT"]
}
]
},
"application_user": {
"schema_privileges":[
{
"reference":"SFLIGHT",
"privileges_with_grant_option":["SELECT"]
}
]
}
}
}
Ln 1, Col 1
Spaces: 2
UTF-8
CRLF
{} JSON with Comments


workspace (Workspace)
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
node_modules
src
.hdiconfig
SFLIGHT.hdbgrants
.gitignore
package-lock.json
package.json
.gitignore
mta.yaml
SFLIGHT.hdbgrants
mta.yaml
BRT_Data > mta.yaml > [ ] resources > {} 1 > type
_schema-version: "2.1"
ID: BRT_Data
version: 0.0.1
modules:
- name: db
type: hdb
path: db
requires:
- name: hdi_db
properties:
TARGET_CONTAINER: ~{hdi-container-name}
name: MYBRT
resources:
- name: hdi_db
type: com.sap.xs.hdi-container
properties:
hdi-container-name: ${service-name}
name: MYBRT
type: org.cloudfoundry.existing-service
OUTLINE
TIMELINE
SAP HANA PROJECTS
BRT_Data/db
src
Database Connections
hdi_db
MYBRT
Ln 19, Col 3
Spaces: 2
UTF-8
LF
YAML


Select a binding option
Bind to an HDI container
Bind to a user provided service
Bind to a schema service
Bind to an application managed service instance
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
node_modules
src
.hdiconfig
SFLIGHT.hdbgrants
.gitignore
package-lock.json
package.json
.gitignore
mta.yaml
OUTLINE
TIMELINE
SAP HANA PROJECTS
BRT_Data/db
src
Database Connections
hdi_db
MYBRT
_schema-version: "2.1"
ID: BRT_Data
version: 0.0.1
modules:
- name: db
type: hdb
path: db
requires:
- name: hdi_db
properties:
TARGET_CONTAINER: ~{hdi-container-name}
- name: MYBRT
resources:
- name: hdi_db
type: com.sap.xs.hdi-container
properties:
hdi-container-name: ${service-name}
- name: MYBRT
type: org.cloudfoundry.existing-service
Ln 19, Col 3
Spaces: 2
UTF-8
LF
YAML


Select a user provided service
MYBRT user-provided
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
node_modules
src
.hdiconfig
SFLIGHT.hdbgrants
.gitignore
package-lock.json
package.json
.gitignore
mta.yaml
OUTLINE
TIMELINE
SAP HANA PROJECTS
BRT_Data/db
src
Database Connections
hdi_db
MYBRT
_schema-version: "2.1"
ID: BRT_Data
version: 0.0.1
modules:
- name: db
type: hdb
path: db
requires:
- name: hdi_db
properties:
TARGET_CONTAINER: ~{hdi-container-name}
- name: MYBRT
resources:
- name: hdi_db
type: com.sap.xs.hdi-container
properties:
hdi-container-name: ${service-name}
- name: MYBRT
type: org.cloudfoundry.existing-service
Ln 19, Col 3
Spaces: 2
UTF-8
LF
YAML


workspace (Workspace)
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
node_modules
src
.hdiconfig
SFLIGHT.hdbgrants
.env
.gitignore
package-lock.json
package.json
.gitignore
mta.yaml
SFLIGHT.hdbgrants
mta.yaml
BRT_Data > mta.yaml > [ ] resources > {} 0 > {} properties
1 _schema-version: "2.1"
2 ID: BRT_Data
3 version: 0.0.1
4 modules:
5 - name: db
6 type: hdb
7 path: db
8 requires:
9 - name: hdi_db
10 properties:
11 TARGET_CONTAINER: ~{hdi-container-name}
12 - name: MYBRT
13 resources:
14 - name: hdi_db
15 type: com.sap.xs.hdi-container
16 properties:
17 hdi-container-name: ${service-name}
18 - name: MYBRT
19 type: org.cloudfoundry.existing-service
OUTLINE
TIMELINE
SAP HANA PROJECTS
BRT_Data/db (pending deployme...
src (pending deployment)
Database Connections
hdi_db (BRT_DataContainer)
MYBRT (MYBRT)
The MYBRT service has been bound.
Ln 16, Col 14 Spaces: 2 UTF-8 LF YAML


workspace (Workspace)
EXPLORER
WORKSPACE (WORKSPACE)
BRT_Data
db
node_modules
src
.hdiconfig
SFLIGHT.hdbgrants
.env
.gitignore
package-lock.json
package.json
.gitignore
mta.yaml
mta.yaml
SFLIGHT.hdbgrants
BRT_Data > mta.yaml > [ ] modules > {} 0 > [ ] requires
1 _schema-version: "2.1"
2 ID: BRT_Data
3 version: 0.0.1
4 modules:
5 - name: db
6 type: hdb
7 path: db
8 requires:
9 - name: hdi_db
10 properties:
11 TARGET_CONTAINER: ~{hdi-container-name}
12 - name: MYBRT
13 resources:
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
SAP HANA: Deploy module at /home/user/projects/BRT_Data/db (BRT_Data) - Task
Precompiling... ok (0s 0ms)
Merging...
Merging... ok (0s 0ms)
Calculating dependencies... ok (0s 29ms)
Finalizing...
Finalizing... ok (0s 21ms)
Make succeeded (0 warnings): 1 files deployed (effective 1), 0 files undeployed (effective 0), 0 dependent files redeployed
Making... ok (0s 700ms)
Enabling table replication for the container schema "BRT_DATA_HDI_DB_1"...
Enabling table replication for the container schema "BRT_DATA_HDI_DB_1"... ok (0s 92ms)
Starting make in the container "BRT_DATA_HDI_DB_1" with 1 files to deploy, 0 files to undeploy... ok (0s 833ms)
Deploying to the container "BRT_DATA_HDI_DB_1"... ok (1s 37ms)
No default-access-role handling needed; global role "BRT_DATA_HDI_DB_1::access_role" will not be adapted
Unlocking the container "BRT_DATA_HDI_DB_1"...
Unlocking the container "BRT_DATA_HDI_DB_1"... ok (0s 0ms)
Deployment to container BRT_DATA_HDI_DB_1 done [Deployment ID: none].
Deployment ended at 2023-10-16 15:18:48
(4s 12ms)
Terminal will be reused by tasks, press any key to close it.
OUTLINE
TIMELINE
SAP HANA PROJECTS
BRT_Data/db (pending deployment)
src (pending deployment)
.hdiconfig
SFLIGHT.hdbgrants (pending deploy...
Database Connections
Ln 8, Col 12 Spaces: 2 UTF-8 LF YAML