

Nama : Irma Nathasya Br Ginting

NIM : 201402136

Mata Kuliah : Enterprise Development Software

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

Subaccount: trial2 - Instances and Subscriptions

All: 6

Search [ ] All Services All Plans All Statuses

Subscriptions (2) Instances (3) Environments (1)

Applications to which your subaccount is currently subscribed

Application	Plan	Created On	Changed On	Status	
SAP HANA Cloud	tools	30 Sept 2023	30 Sept 2023	Subscribed	...
SAP Business Application Studio	trial	16 Oct 2023	16 Oct 2023	Subscribed	...

Instances (3)

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	...

Subaccount: trial2 - Instances and Subscriptions

All: 6

Search [ ] All Services All Plans All Statuses

Subscriptions (2) Instances (3) Environments (1)

Applications to which your subaccount is currently subscribed

Application	Plan	Created On	Changed On	Status	
SAP HANA Cloud	tools	30 Sept 2023	30 Sept 2023	Subscribed	...
SAP Business Application Studio	trial	16 Oct 2023	16 Oct 2023	Subscribed	...

Instances (3)

Service instances created in: Cloud Foundry | Kyma/Kubernetes | Other environments

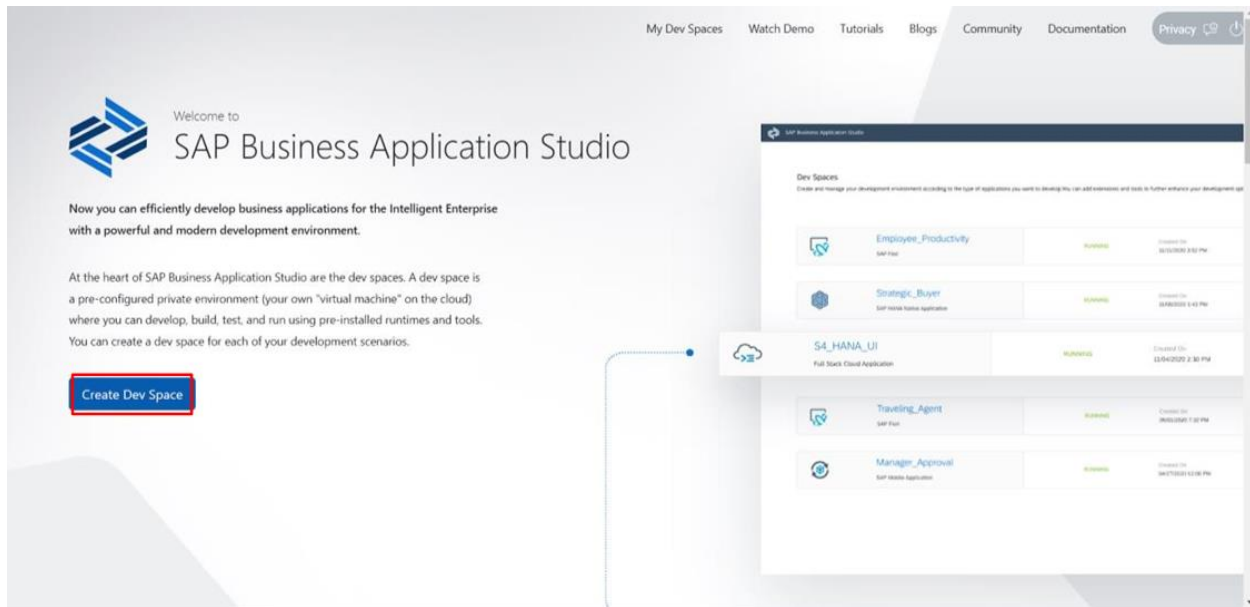
Instance	Service	Plan	Runtime Environment	Scope	Credentials	Status	
BestRunTravel	SAP HANA Cloud	hana	Other Environments			Created	...
BestRunTravel-con	SAP HANA Cloud	hana-cloud-connection	Other Environments			Created	...

Go to Application

Manage Roles

Add Labels

Delete



#### 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

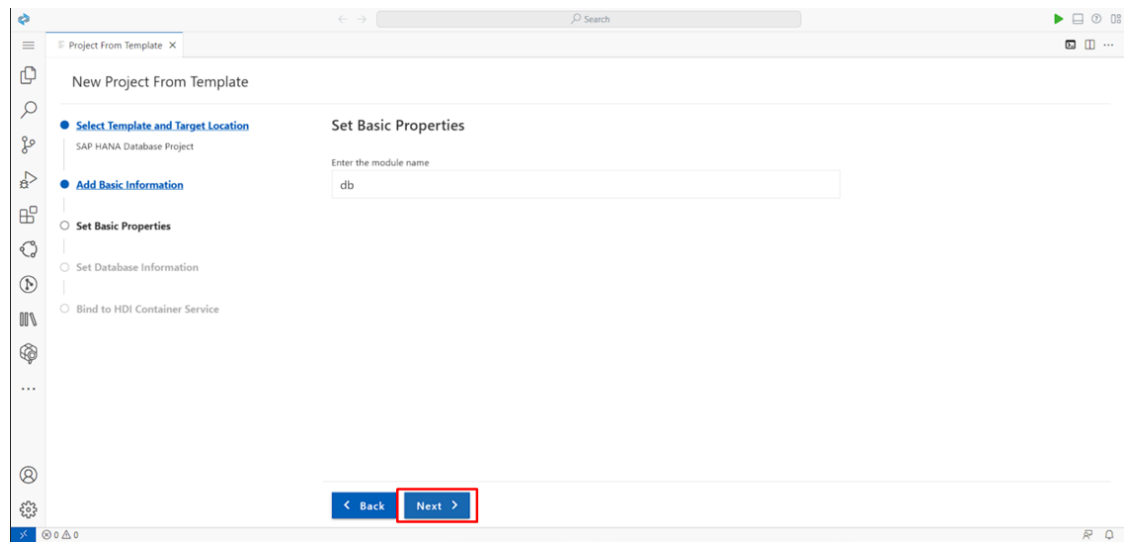
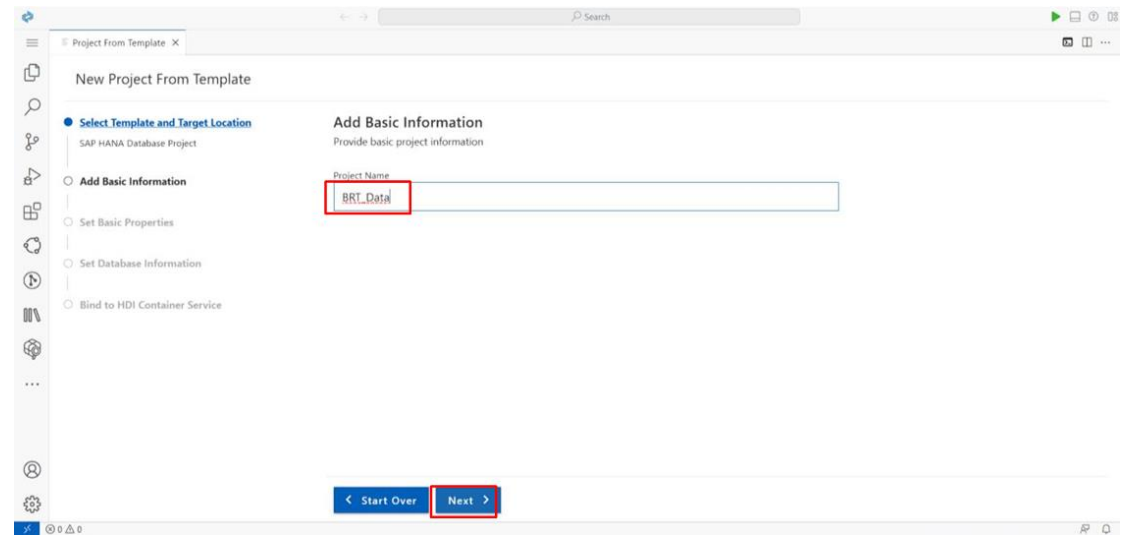
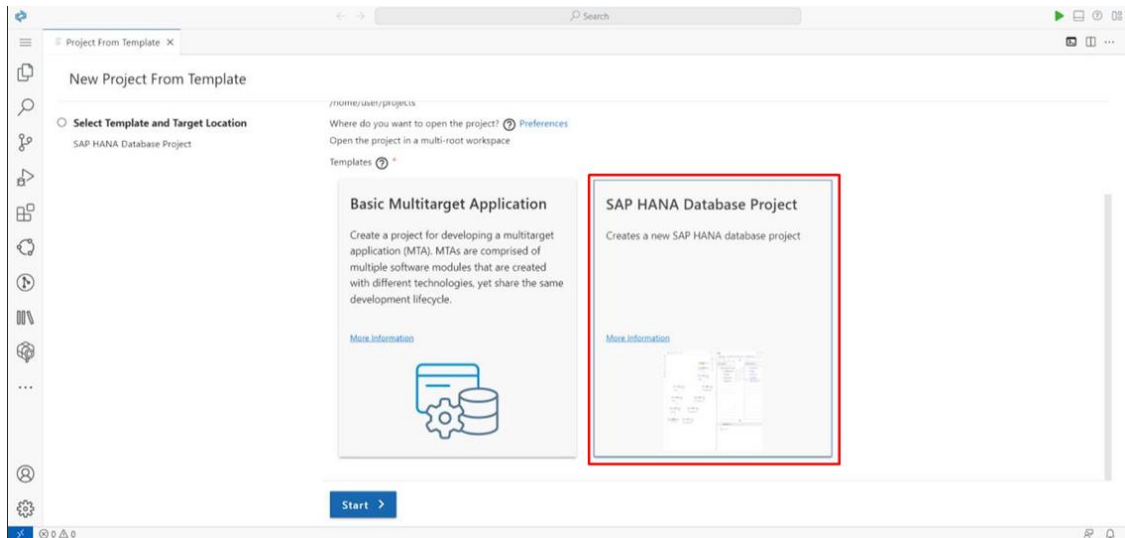
#### Dev Spaces

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](#).

⚠ 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](#).

Create Dev Space

<p>BestRunTravel</p> <p>SAP HANA Native Application</p>	<p>RUNNING</p>	<p>Created On 10/03/2023 12:24 AM</p>	<p>ID ws-4kh4n</p>	<p>Disk Usage 44 KB / 3.8 GB</p>	<p>⏸ ⬇ 🗑 📄</p>
---	----------------	---	------------------------	--------------------------------------	----------------



Project From Template X

Search

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 >

Project From Template X

Get Started X

Cloud Foundry Sign In X

Search

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 environment

Cloud Foundry Sign In

✔ You are signed in to Cloud Foundry.

Cloud Foundry Endpoint

Sign Out

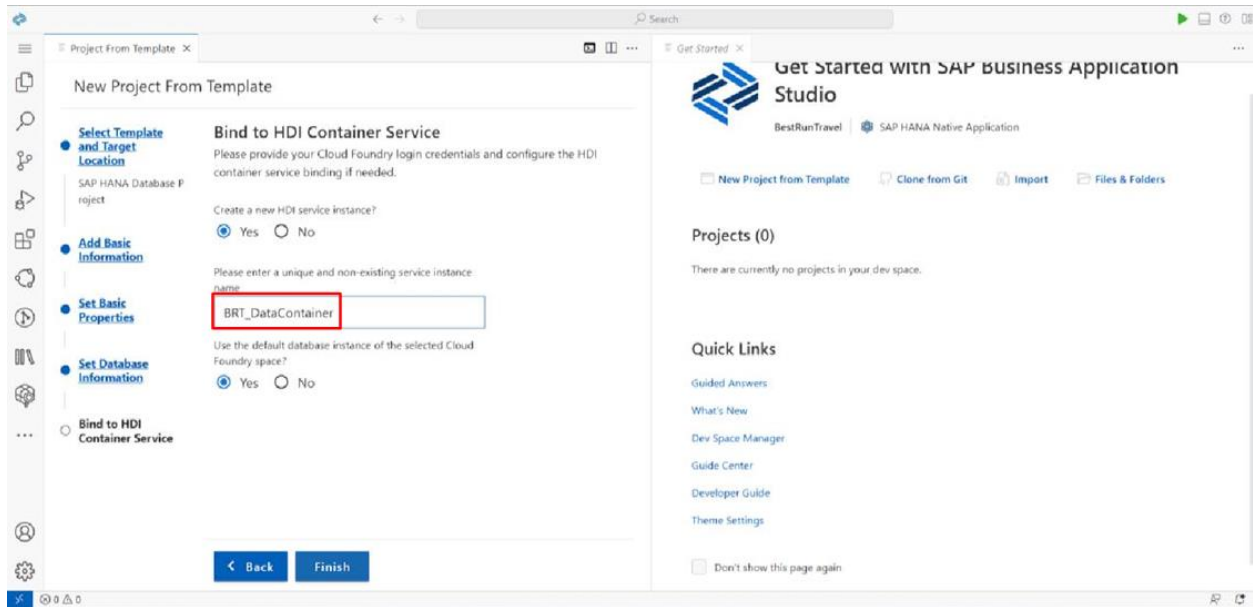
Cloud Foundry Target

Select Cloud Foundry Organization \*

Select Cloud Foundry Space \*

dev

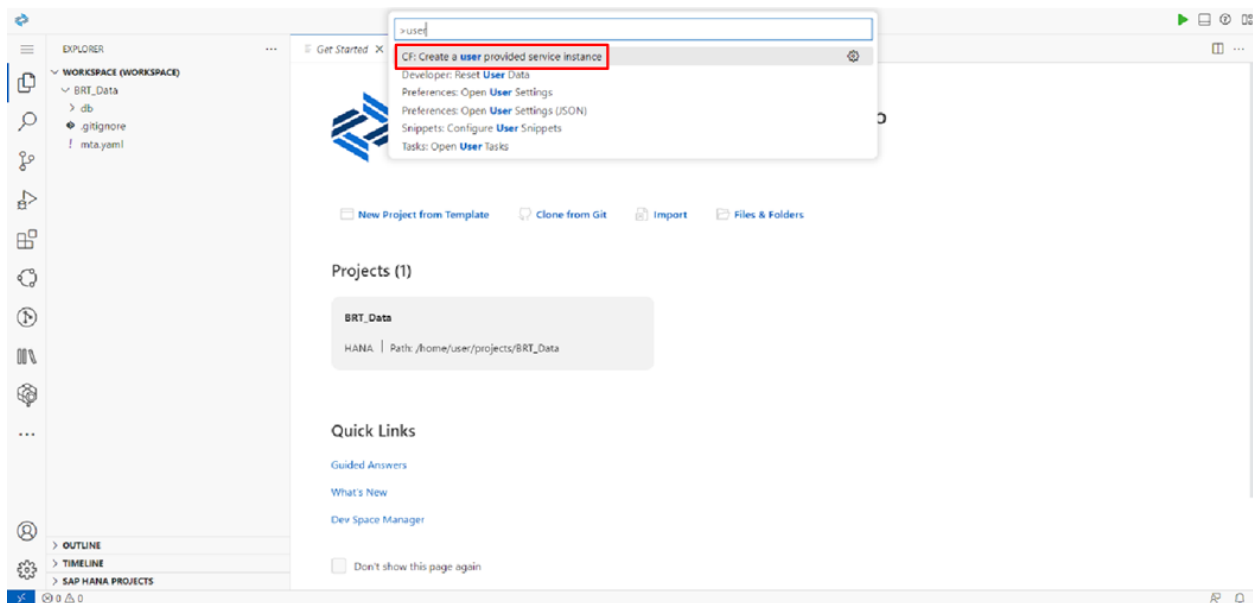
Apply

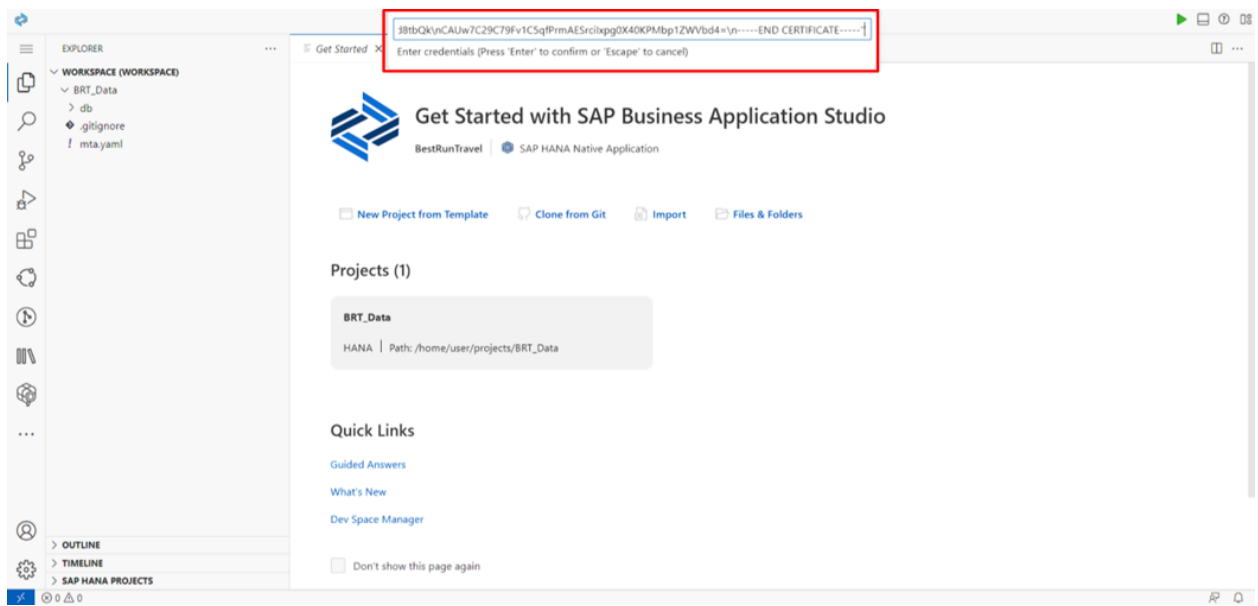
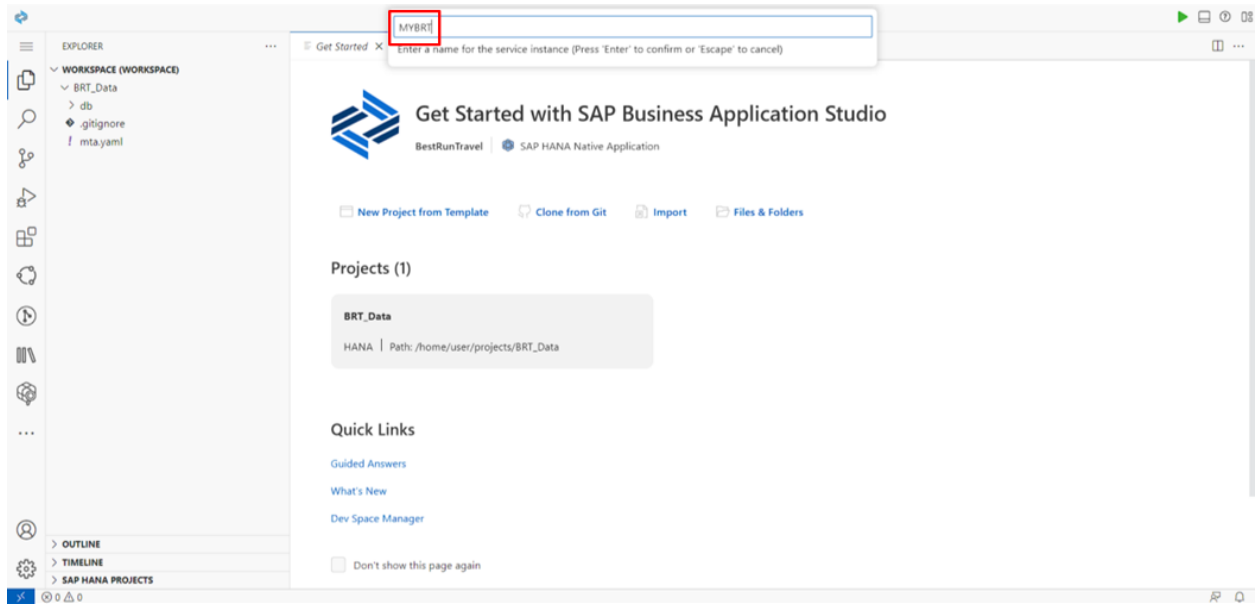


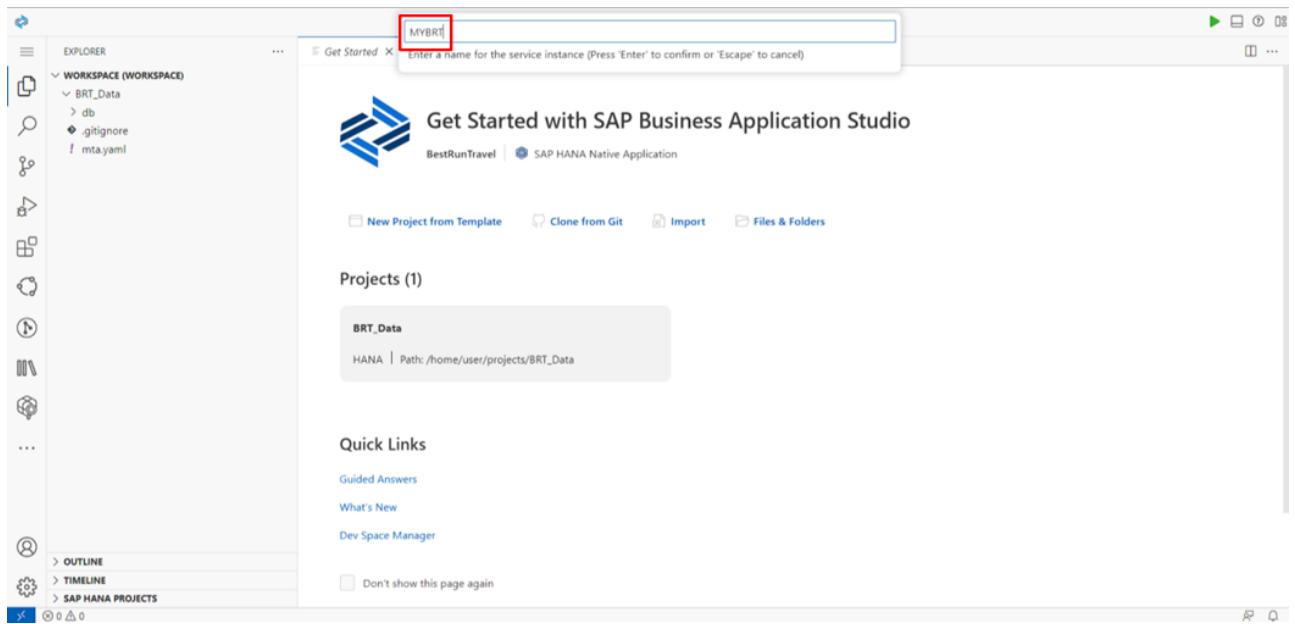
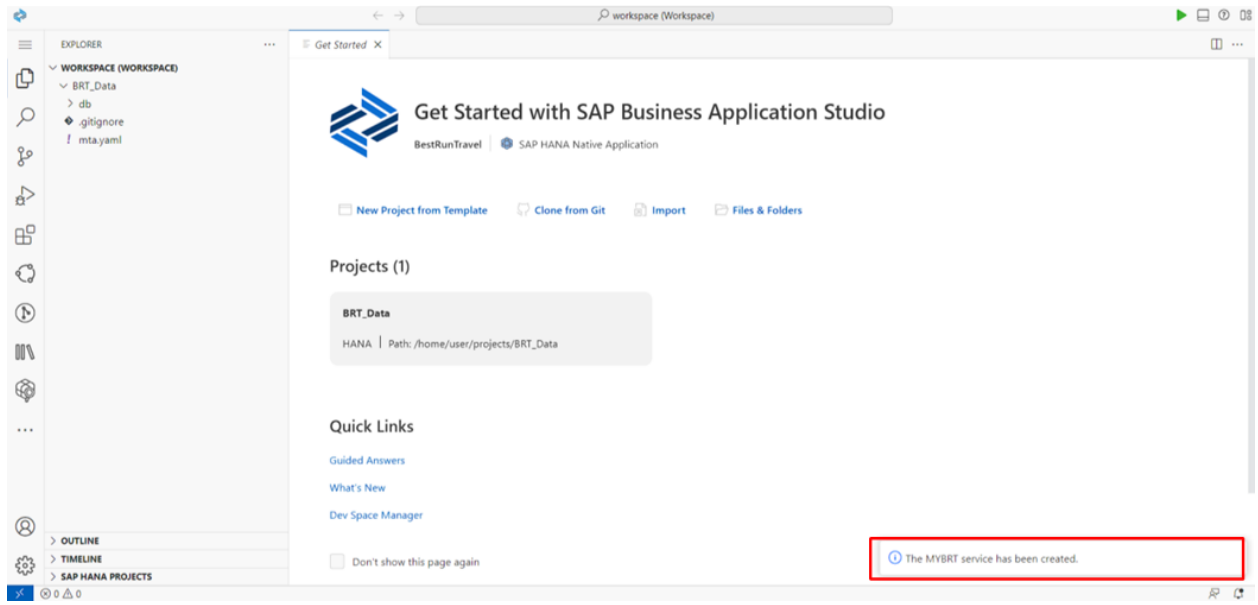
Instances (4)

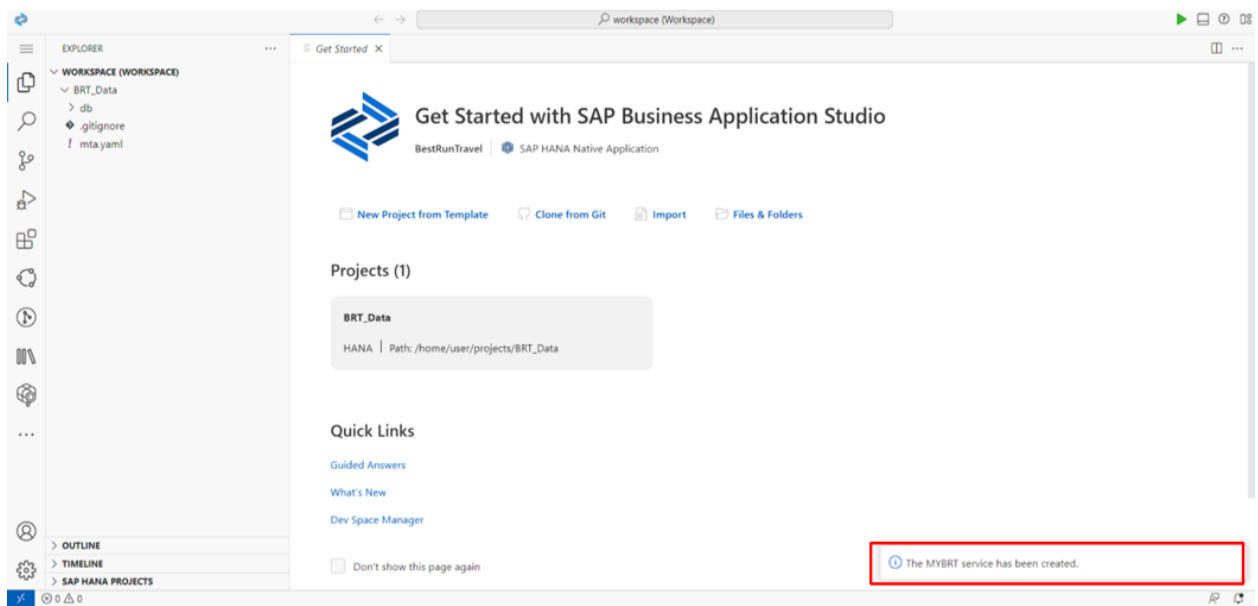
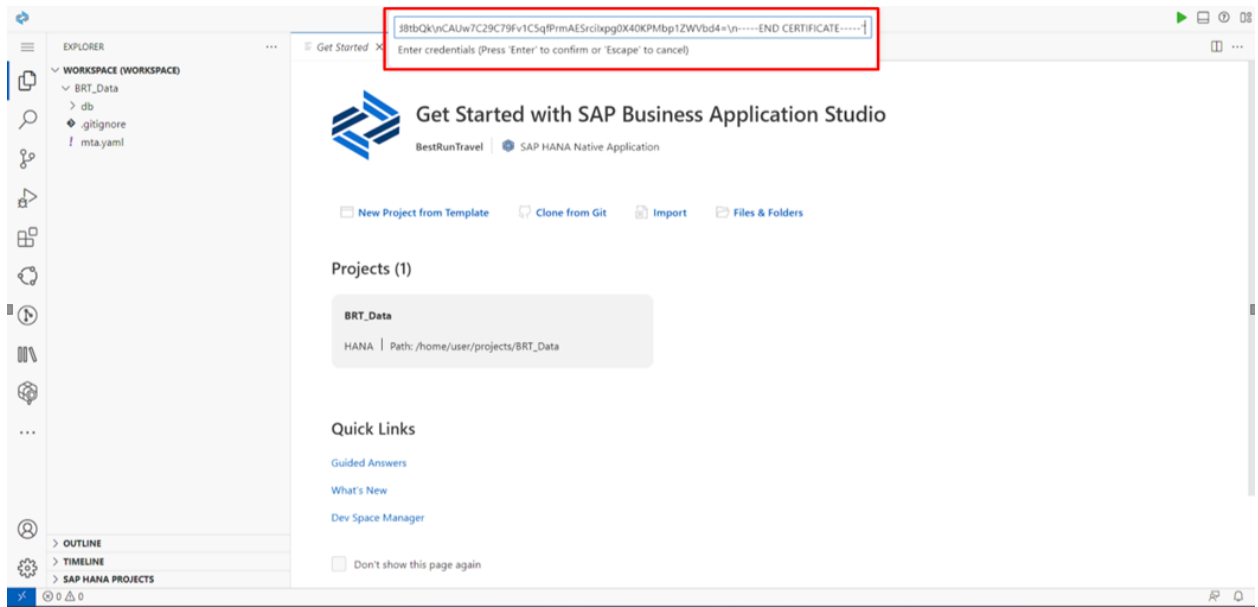
Service instances created in: [Cloud Foundry](#) | [Kyma/Kubernetes](#) | [Other environments](#)

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











workspace (Workspace)

EXPLORER

WORKSPACE (WORKSPACE)

- BRT\_Data
  - db
    - node\_modules
      - src
        - hdi.config
        - SFLIGHT.hdbgrants
        - gitignore
        - package-lock.json
        - package.json
        - gitignore
        - mta.yaml

OUTLINE

TIMELINE

SAP HANA PROJECTS

```
1 {
2   "myConnection": {
3     "object_owner": {
4       "schema_privileges": [
5         {
6           "reference": "SFLIGHT",
7           "privileges_with_grant_option": ["SELECT"]
8         }
9       ]
10    },
11    "application_user": {
12      "schema_privileges": [
13        {
14          "reference": "SFLIGHT",
15          "privileges_with_grant_option": ["SELECT"]
16        }
17      ]
18    }
19  }
20 }
21 }
```

Ln 1, Col 1 Spaces: 2 UTF-8 CRLF {} JSON with Comments

workspace (Workspace)

EXPLORER

WORKSPACE (WORKSPACE)

- BRT\_Data
  - db
    - node\_modules
      - src
        - hdi.config
        - SFLIGHT.hdbgrants
        - gitignore
        - package-lock.json
        - package.json
        - gitignore
        - mta.yaml

OUTLINE

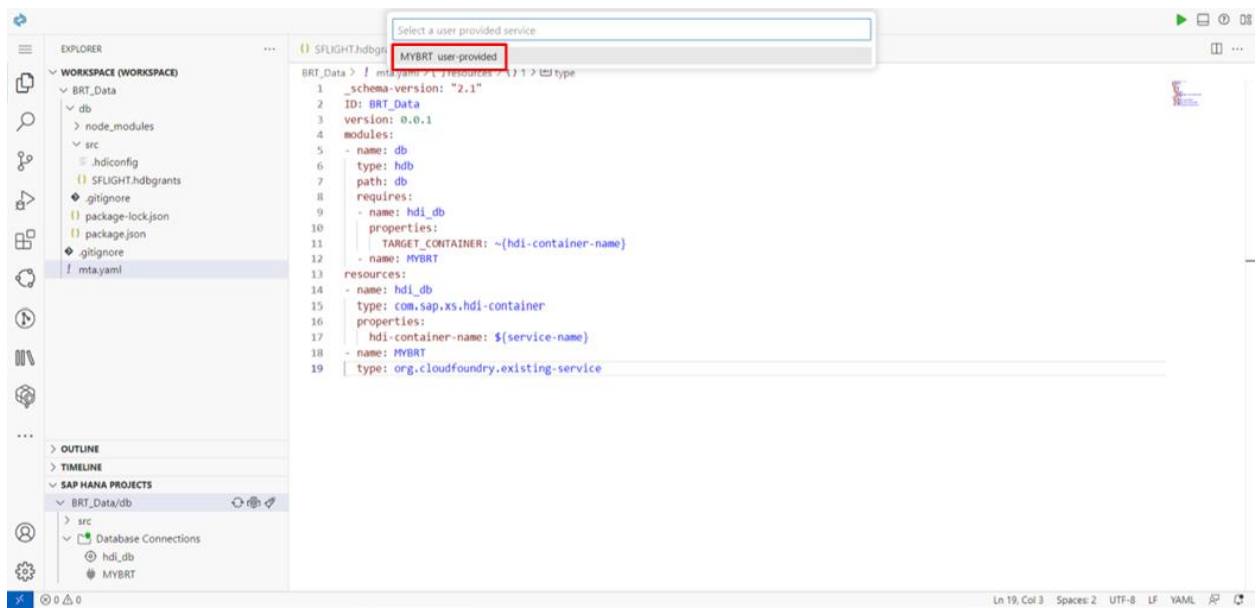
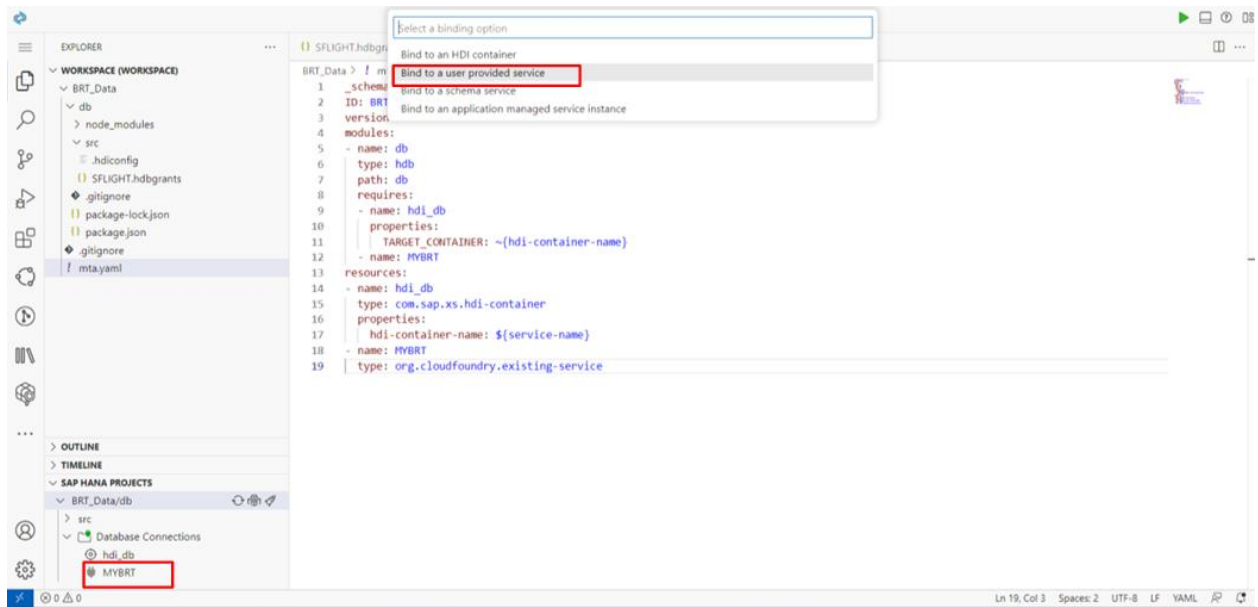
TIMELINE

SAP HANA PROJECTS

- BRT\_Data/db
  - src
    - Database Connections
      - hdi\_db
      - MYBRT

```
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           TABLET_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
```

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
      - mtayaml

OUTLINE

TIMELINE

SAP HANA PROJECTS

- BRT\_Data/db (pending deployment)  
- src (pending deployment)
- Database Connections
  - hdi\_db (BRT\_DataContainer)
  - MYBRT (MYBRT)

mtayaml

```
BRT_Data > ! mtayaml > [ ] resources > { } > { } 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
```

The MYBRT service has been bound.

Ln 16, Col 14 Spaces: 2 UTF-8 LF YAMLL

workspace (Workspace)

EXPLORER

WORKSPACE (WORKSPACE)

- BRT\_Data
  - db
    - node\_modules
    - src
      - hdiconfig
      - SFLIGHT.hdbgrants
      - env
      - gitignore
      - package-lock.json
      - package.json
      - gitignore
      - mtayaml

OUTLINE

TIMELINE

SAP HANA PROJECTS

- BRT\_Data/db (pending deployment)
- src (pending deployment)
- Database Connections
  - hdi\_db (BRT\_DataContainer)
  - MYBRT (MYBRT)

mtayaml

```
BRT_Data > ! mtayaml > [ ] modules > { } > { } 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"... ok (0s 0ms)
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.

Ln 8, Col 12 Spaces: 2 UTF-8 LF YAMLL