

MindMapGenerator using OCI Generative AI & Visual Builder

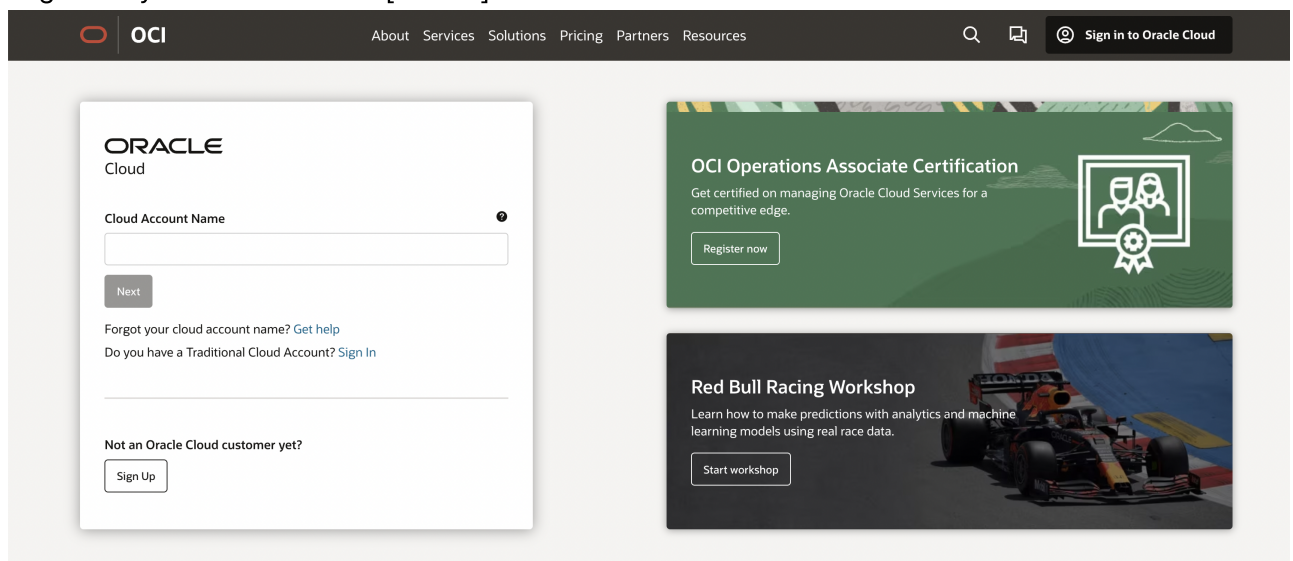
MindMapGenerator, can take a text, analyze it, classify it into levels and sublevels, and generate a structured mind map based on the content using Generative AI. It also works with PDF documents by leveraging Oracle Document Understanding to analyze and extract information from the file before creating the mind map. Additionally, the demo can capture information in real-time using the Speech service, processing spoken input to generate an insightful and organized mind map on the fly. Can be complementary to AI Meetings or other different use cases.

Reviewed: 17.12.2024

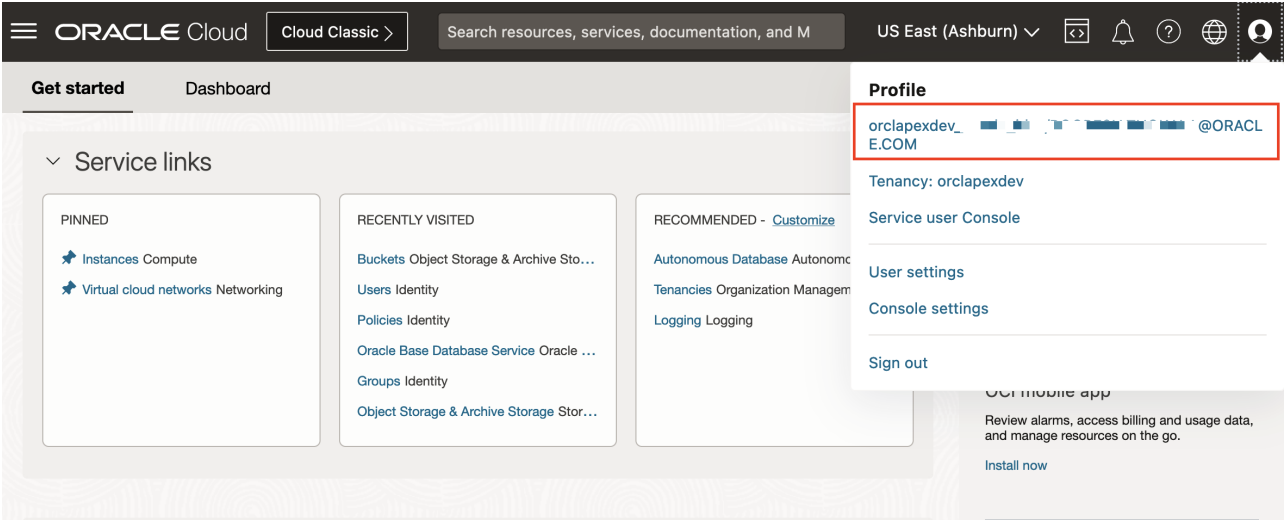
1. Prepare your user

In Oracle Cloud Infrastructure (OCI), API keys are used for secure authentication when accessing OCI resources through REST APIs. OCI API keys consist of two parts: a Public key and a Private key. You use the OCI console to generate the Private/Public key pair. Generate API Keys using OCI Console To Generate the API Keys using OCI Console:

- Login into your OCI Account. ![alt text]



- Click on the Profile icon at the top-right corner and select your Profile hyperlink.



- Under Resources section at the bottom-left, select API Keys and then click Add API Key.



- The Add API Key dialog is displayed. Select Generate API Key Pair to create a new key pair.

Created: Wed, May 3, 2023, 15:07:12 UTC My Oracle Support account

Add API Key [Help](#)

Note: An API key is an RSA key pair in PEM format used for signing API requests. You can generate the key pair here and download the private key. If you already have a key pair, you can choose to upload or paste your public key file instead. [Learn more](#)

☒ Generate API Key Pair ☐ Choose Public Key File ☐ Paste Public Key

Public Key

i Download the private key. It will not be shown again. After you download it, [change the file permissions](#) so only you can view it.

[Download Private Key](#) [Download Public Key](#)

[Add](#) [Cancel](#)

- Click Download Private Key. A .pem file is saved to your local device. You do not need to download the public key and click Add button.

Configuration File Preview

[Help](#)

Note: This configuration file snippet includes the basic authentication information you'll need to use the SDK, CLI, or other OCI developer tool. Paste the contents of the text box into your ~/.oci/config file and update the key_file parameter with the file path to your private key. If you already have a **Default** profile in your config profile, you'll need to perform some additional steps. [Learn more](#)

Select API Key Fingerprint

d9:09:3d:6c:a8:ef:79:6c:52:41:dd:f4:01:01:3e:f3

Configuration File Preview *Read-only*

```
[redacted]
```

Paste the contents of the text box into your ~/.oci/config file.

Copy

Close

2.Pick you compartment

Identify the compartment you're currently working within. Navigate to 'Identity' -> 'Compartments'. Locate your compartment and make a note of its OCID (Oracle Cloud Identifier)

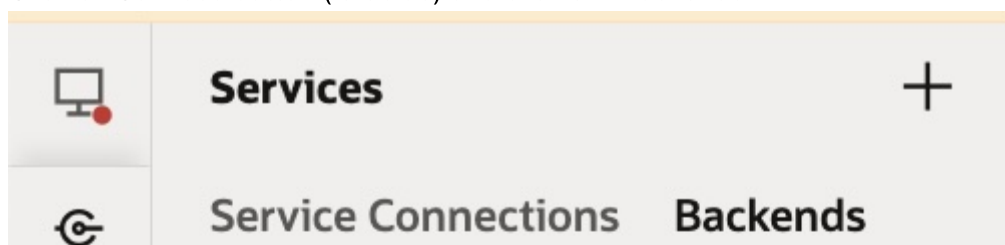
3.Open Visual Builder

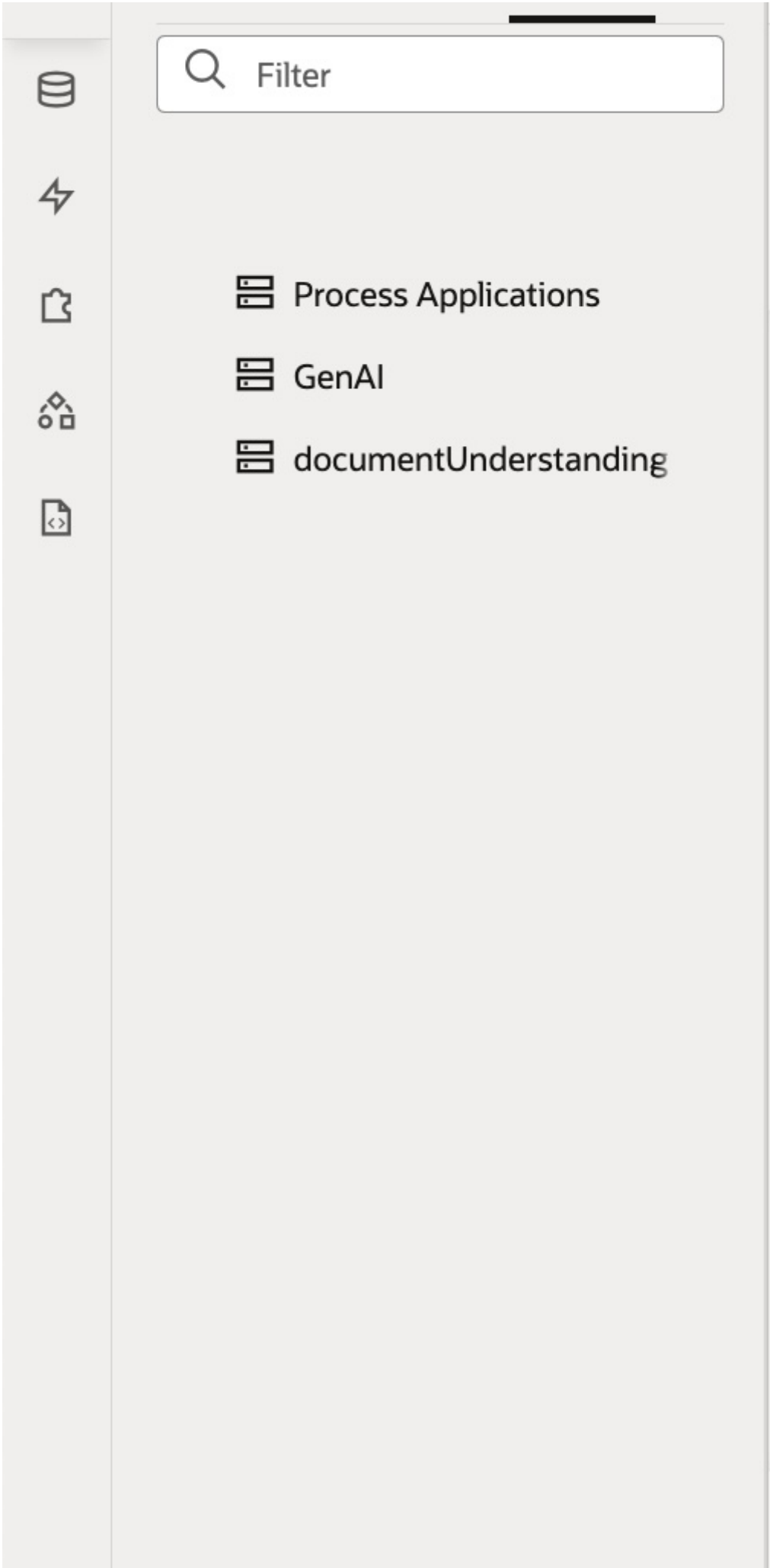
Import Visual Builder project

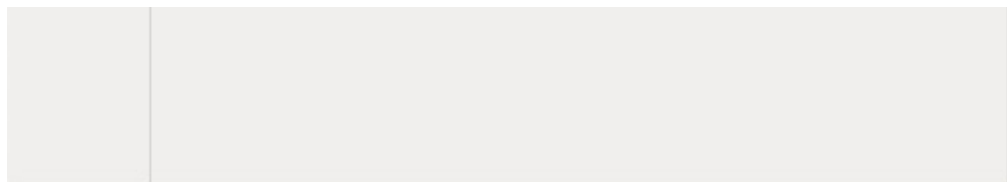
- Open Visual Builder and click on the "Import" button. Choose "Application from file".
- Drop the zip project file
- Provide a name and an ID, for example "MindMaps_Generator". Click on Import button.

Configure REST APIs authentication

- Open the recently created project.
- Click on Services button (left side) and click on "Backends"







- Now, click on GenAI, and Servers to edit server authentication.
- Click the pencil to provide the OCI Credentials
- Provide the credentials you got during the step 1.

Oracle Cloud Infrastructure API Signature ×

Key Id * ⓘ

e.g. ocid1.tenancy.oc1..<unique_ID>/ocid1.user.oc1..<unique_ID>/<key_fingerprint>

Private Key * ⓘ

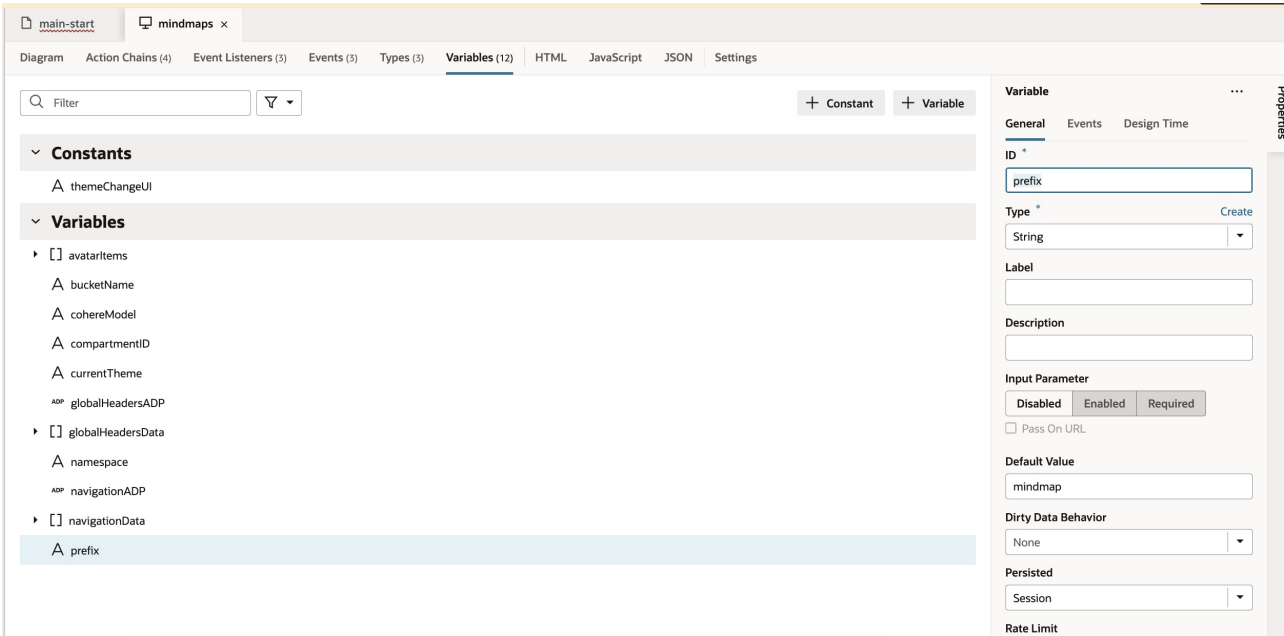
e.g.
-----BEGIN PRIVATE KEY-----
MIIEvglBADANBgkqhkiG9w0BAQEFAASCBAKgwggSkAgEAAoIBAQDBj08sp5++4anG
...
BQcwAoZBaHR0cDovL3NIY3VyZS5nbG9iYWxzZWduLmNvbS9jYWNIcnQvZ3Nvcmdh
-----END PRIVATE KEY-----

Cancel Save

- Repeat the same process with the GenAI backend.

Provide your compartmentId and all the required variables

- Provide compartmentId default value in the project variable named "compartmentID" that you got during the step 2.



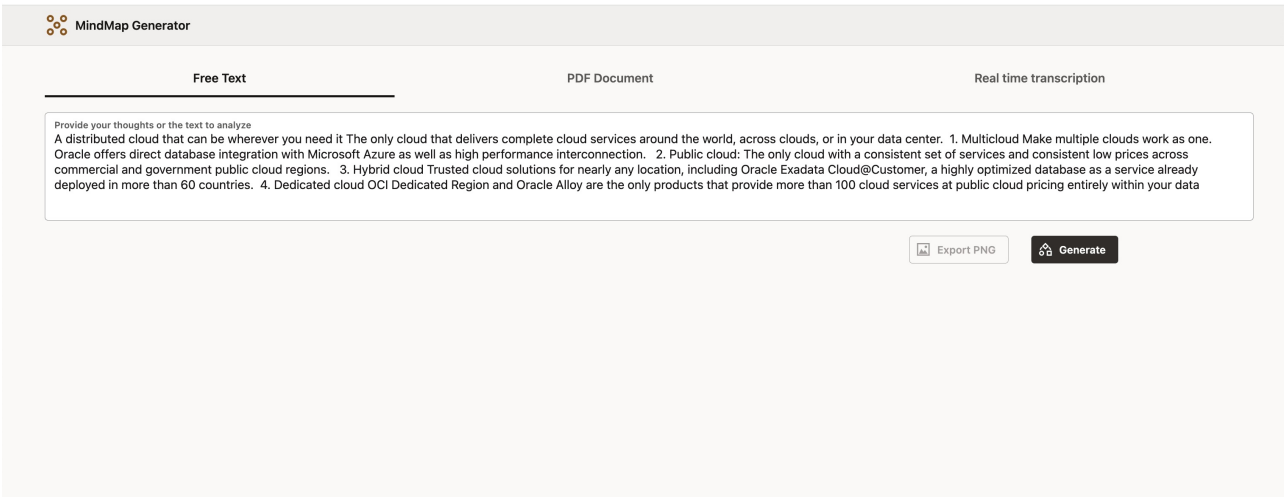
Repeat the process with bucketName, cohereModel, namespace & prefix

Provide JS library to generate MindMaps

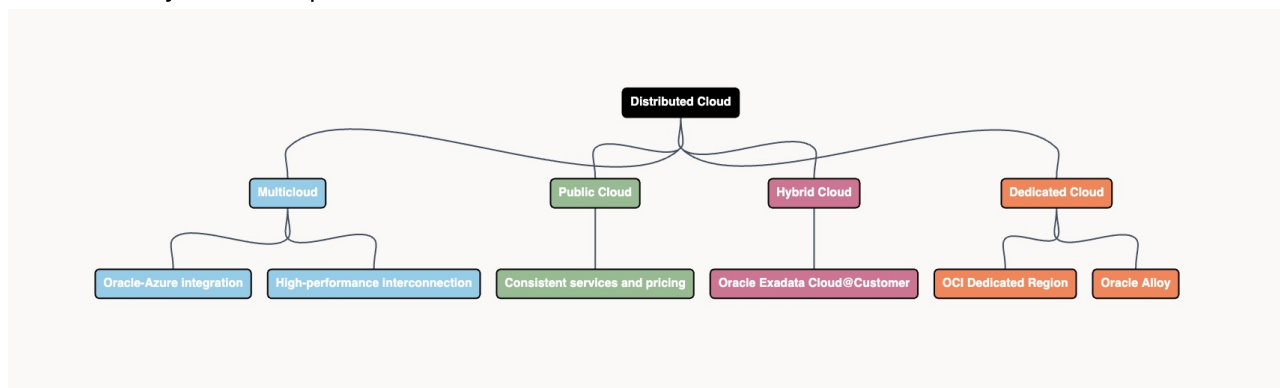
- I developed this sample using go.js but you can replace by any other. Please update the html page in the application providing your library

4. Preview the application

- Now can provide a topic in the text area and click "generate" button.



- Automatically a mindmap will be created.



Notes

- It is important to note that, you can use any open source or licensed JS library to generate the MindMap. And you can do using Free Text & Documents Analysis. If you want to use Real Time Transcription you need to configure a Speech Bridge and modify the JS page.

I hope you liked it.

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