

Integrate Semantic Kernel as a Service

Last Modified on 01/24/2024 2:35 am EST

V10.5

Overview

Semantic Kernel is an open-source Software Development Kit (SDK) that enables you to build agents that can call any existing code and automates processes. With Semantic Kernel, you can create a Kernel object that provides your code to the AI. The Kernel then builds an agent that calls your code whenever its prompted.

Configuration steps

	Steps	Location	Performed by
1	Create AI Plugin	Administration site	<ul style="list-style-type: none">• Architect• Tech Lead• Developer
2	Create Symantec Kernel	Administration site	
3	Add SK (Semantic Kernel) function in workflow	Administration site>Workflow	

1. Create AI Plugin

Create AI Plugins to configure AI capabilities, prompt messages and other AI function parameters. A Plugin is a pre-defined set of functions that instructs the model on how to respond to user queries. A Plugin acts as a prompt template containing set of functions, and each function has two files `config.json` and `skprompt.txt`.

1. Go to **Administration > AI Services > AI Plugins**, and click **Add AI Plugin**.

Create New AI Plugin

AI Plugin Name *

Sales

Description

Select AI Plugin template

Summarize Plugin

Create New AI Plugin

Cancel

2. Add Plugin name.
3. Select a Plugin template.

Following are the three out-of-the-box Plugin templates provided:

- Blank Plugin: The Plugin contains no pre-built functions so, you can add your own set of instructions.
- Summarize Plugin: The Plugin contains functions that can help you summarize text.
- Writer Plugin: The Plugin contains functions that can help you generate text, particularly for email response.



4. Click **Create New AI Plugin**.

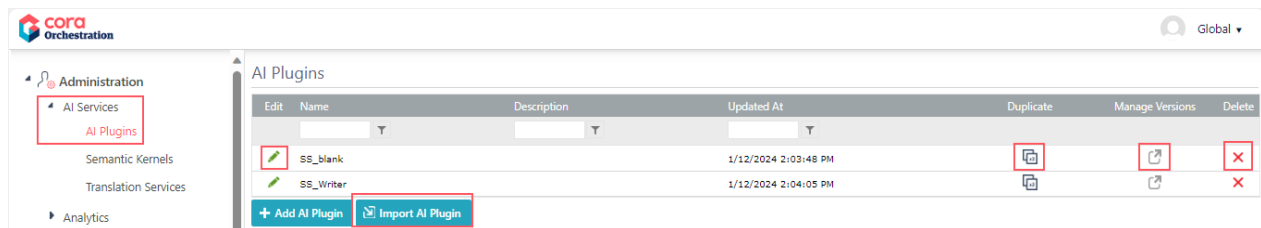
A Plugin editor window open up in a new tab, and based on your selection of the AI Plugin template a list of functions appear in the editor window.

5. Edit the config and prompt files in the functions per requirement.
6. Save the Plugin.

For configuration details, see [this page](#).

Each AI Plugin can be used with different Kernels per requirement.

In the AI Plugins list, for a Plugin, click  to edit and  to delete the Plugin from the list. You can also create a duplicate and manage versions for the Plugin.



Using the Import AI Plugin option, you can import any existing AI Plugin from a saved package to your system.

2. Create a Symantec Kernel

Create a Kernel object to connect to the AI engine.

1. Go to **Administration > AI Services > Semantic Kernels**, and click **Add New Record**.

The screenshot shows a web interface for configuring a Semantic Kernel. On the left is a navigation menu under 'Administration' with categories: AI Services (containing AI Plugins and Semantic Kernels), Translation Services, Analytics, Archiving, Global Settings, Lookup Tables, Organization Settings, Portal Settings, Security, Solutions, and Workflows. The 'Semantic Kernels' option is highlighted with a red box. The main panel is titled 'Semantic Kernel' and contains the following fields:

- Name ***: A text input field containing 'SS'.
- Description**: A large empty text area.
- Secret Source ***: Radio buttons for 'Internal' (selected) and 'External'.
- Kernel Configuration ***: A code editor with a red border containing the following JSON configuration:

```
1 {  
2   "type": "AzureOpenAI",  
3   "azureOpenAI": {  
4     "apiKey": "*****",  
5     "serviceId": null,  
6     "deploymentName": "Mandatory",  
7     "chatDeploymentName": null,  
8     "endpoint": "Mandatory",  
9     "useChatModel": false  
10  }  
11 }
```
- Test Connection**: A blue button.
- Add** and **Cancel**: Two buttons at the bottom, with 'Add' highlighted by a red box.

2. Add a valid unique name for the Semantic Kernel.
3. Add a description.
4. Select the secret source for keys:
 - Internal: any internal source where keys are stored.
 - External: Azure or AWS.
5. Add the Kernel configuration.
6. Test the connection.
7. Click **Add**.

3. Add SK (Semantic Kernel) function in workflow

Once you have created an AI Plugin and a Kernel, you need to add a Semantic Kernel function to your workflow and configure the function.

For details, see [this article](#).