

# Integrate Semantic Kernel as a Service

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## 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"><li>• Architect</li><li>• Tech Lead</li><li>• Developer</li></ul>
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**.

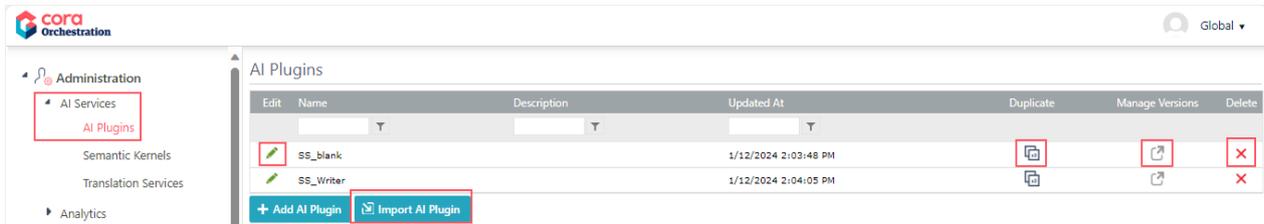
A Plugin editor window open up in a new tab, and based on your selection of the AI Plugin template a list of functions appear in the editor window.

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**.

**Administration**

- AI Services
  - AI Plugins
  - Semantic Kernels**
  - Translation Services
- Analytics
- Archiving
- Global Settings
- Lookup Tables
- Organization Settings
- Portal Settings
- Security
- Solutions
- Workflows

### Semantic Kernel

**Name \***

**Description**

**Secret Source \***  
 Internal  External

**Kernel 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 }

```

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](#).