

# stable-diffusion-webui-api

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## Overview

In this notebook, we explore how to build generative fill application and host Stable Diffusion/ ControlNet / segment anything models on SageMaker asynchronous endpoint using BYOC (Bring-your-own-container).

You will find 2 Jupyter Notebooks: 1 for running with Amazon SageMaker Studio and 1 for running with Amazon SageMaker Notebook.

## IAM role recommendations:

### 1. Running with Amazon SageMaker Studio

- Permissions policies

```
AmazonSageMakerFullAccess
AWSCodeBuildAdminAccess
IAMFullAccess
```

- Trusted entities

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": {
        "Service": [
          "sagemaker.amazonaws.com",
          "codebuild.amazonaws.com"
        ]
      },
      "Action": "sts:AssumeRole"
    }
  ]
}
```

### 2. Running with Amazon SageMaker Notebook

- Permission Policies

```
AmazonEC2ContainerRegistryFullAccess
AmazonSageMakerFullAccess
```

- Trusted entities

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": {
        "Service": [
          "ecs.amazonaws.com",
          "sagemaker.amazonaws.com"
        ]
      },
      "Action": "sts:AssumeRole"
    }
  ]
}
```

Note:

1. You may need to adjust IAM roles definition to achieve fine grained access control.
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