

How to add models the pre-deployed NIM model to MLIS

Create NGC Registry

Ideally to access NIM models you will need to have a NGC key.

But these NIM models under Tools & Frameworks >> NVIDIA AI Enterprise, are already available on the system for use.

There is an in-built registry which is valid only for these models which come along with the system.

Thus, you do not need to register for NGC key on MLIS for these models.

Do verify that there is an entry under Registries as show below.

Registry name	Last modified
HF	19 days ago
NGC	1 month ago
blip-bento	2 months ago
gl4f-mlflow-registry	2 months ago
aws-source-images	2 months ago

NGC

Type: NGC

Team name (optional):

Endpoint (optional): https://api.ngc.nvidia.com

Packaged Model

Go to the NVIDIA AI Enterprise Tab.

Select the model you want to deploy.

Click on **View Details** for the model.

NVIDIA AI Enterprise

NVIDIA Retrieval QA Mistral 7...
Version 7b-v2-hpe3 | Ready
NVIDIA NIM for GPU accelerated NVIDIA Retrieval QA Mistral 7B Embedding v2 inference
question-answering text-embedding contextual-qa +2
[View Details](#)

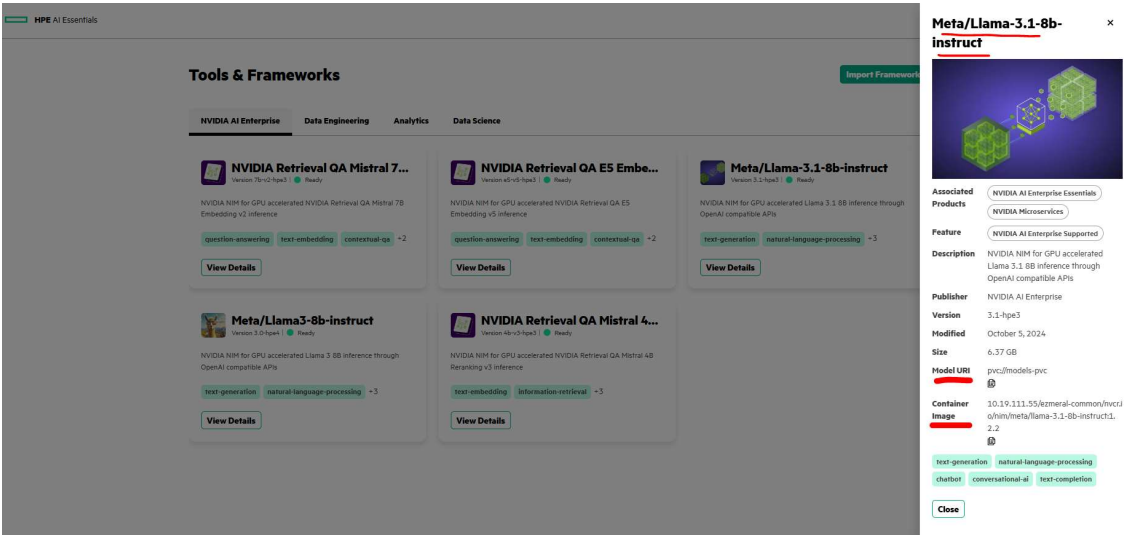
NVIDIA Retrieval QA E5 Embe...
Version e5-v5-hpe3 | Ready
NVIDIA NIM for GPU accelerated NVIDIA Retrieval QA E5 Embedding v5 inference
question-answering text-embedding contextual-qa +2
[View Details](#)

Meta/Llama-3.1-8b-instruct
Version 3.1-hpe3 | Ready
NVIDIA NIM for GPU accelerated Llama 3.1 8B inference through OpenAI compatible APIs
text-generation natural-language-processing +3
[View Details](#)

Meta/Llama3-8b-instruct
Version 3.0-hpe4 | Ready
NVIDIA NIM for GPU accelerated Llama 3 8B inference through OpenAI compatible APIs
text-generation natural-language-processing +3
[View Details](#)

NVIDIA Retrieval QA Mistral 4...
Version 4b-v3-hpe3 | Ready
NVIDIA NIM for GPU accelerated NVIDIA Retrieval QA Mistral 4B Reranking v3 inference
text-embedding information-retrieval +3
[View Details](#)

Make note of the parameters marked in red as they will be required while packaging the model for being hosted on MLIS.



Now back to the MLIS page.

Name: Enter a name which helps you to identify the model easily, preferably model name.

Description: Favourably add the actual model's name. So, its easy for reference later.

Add new packaged model

A model is required for an inference deployment. [Learn how to setup a model.](#)

Your model

Storage

Resources

Advanced (optional)

Name ⓘ

llama-3-8b-nim

Description ⓘ

meta/llama-3.1-8b-instruct

Cancel

Next

In the Storage tab,

Registry: Select the **NGC** registry.

As soon as you select that the **NGC Supported Models** will be pre-populated with **values:** Select the model you want to deploy from the drop down.

As soon as you select the model from the drop down, the fields **Image** and **Path** will be auto filled. The values should match the values from the model's **View Details** page captured earlier.

Add new packaged model

A model is required for an inference deployment. [Learn how to setup a model.](#)


Your model

Storage

Resources


Advanced (optional)

Registry ⓘ

 NGC

ngc ▾

NGC Supported Models ⓘ

 meta/llama3-8b-instruct

ve4 ▾

Image ⓘ

10.19.111.55/ezmeral-common/nvcr.io/nim/meta/llama3-8b-instruct:1.0.3

Path (optional) ⓘ

pvc://models-pvc

Cancel

Back

Next

Resource Template: Choose appropriate template or define a custom one based on the model requirements. Refer the [documentation](#) for help.

Add new packaged model

A model is required for an inference deployment. [Learn how to setup a model.](#)

Your model

Storage

Resources

Advanced (optional)

ⓘ Requested resources are the minimum your packaged model needs to operate. You can set limits to handle spikes to manage additional traffic without affecting other nodes.

Resource Template ⓘ

gpu-tiny

CPU ⓘ

1

→

1

Memory ⓘ

40Gi

→

60Gi

GPU ⓘ

1

→

1

Cancel

Back

Next

Advanced (optional)

Environment Variables: Add the required ones. Refer [documentation](#)

AIOLI_PROGRESS_DEADLINE: 3600s

The above indicates deadline for downloading the model: default value is 30 mins. Thus, it is most commonly set since for some models this can go beyond that time frame.

Add new packaged model


A model is required for an inference deployment. [Learn how to setup a model.](#)

Your model

Storage

Resources

Advanced (optional)

 The following configuration values are optional. [Learn more.](#)

Environment Variables

AIOLI_PROGRESS_DEADLINE

3600s

Add new


Arguments

ex: --arg --foo

Cancel

Back

Create model



Deployments











Packaged models

Registries

API Tokens

Packaged models

Models are the things that you want to get out to the real world.

Model name	Status	Last modified ^	Description	Registry used	Path
<u>llama-3-8b-nim</u>	  Staged	55 seconds ago	<u>meta/llama-3.1-8b-instruct</u>	NGC	<u>pvc/models-pvc</u>
llama3-70b	  Staged	19 days ago		HF	openllm://meta-llama/Meta-Llama-3-70B-Instruct
llama3-8b	  Staged	19 days ago		HF	openllm://meta-llama/Meta-Llama-3-8B-Instruct
blip2-serving	  Staged	2 months ago		none	
blip2-ac-aws	  Staged	2 months ago		aws-source-images	s3://poc-mercedes-gp/model/v1

Deployments

Deployment Name: Provide a name of your choice. just ensure it needs to be all in lowercase and you can only use special characters “.” and “-”.

Create new deployment

A deployment is a running instance of a packaged model. [Learn how to setup a deployment.](#)

Deployment

Packaged Model

Infrastructure

Scaling

Advanced (optional)

Deployment Name [?]

llama-3-8b-nim

Cancel

Next

Packaged Model: Select the packaged model created in previous step.

Create new deployment

A deployment is a running instance of a packaged model. [Learn how to setup a deployment.](#)

Deployment

Packaged Model

Infrastructure

Scaling

Advanced (optional)

Which packaged model do you want to serve? [?]

llama-3-8b-nim

Cancel

Back

Next

Scaling: Choose option as applicable, for testing purpose we go with fixed-1.

Create new deployment

A deployment is a running instance of a packaged model. [Learn how to setup a deployment.](#)

Deployment

Packaged Model

Infrastructure

Scaling

Advanced (optional)

Auto scaling targets template [?]

fixed-1

Minimum instances [?]

1

Maximum instances [?]

1

Auto scaling target [?]

rps

5

Cancel

Back

Next

Advanced: Fill in as applicable (normally left blank)

Create new deployment

A deployment is a running instance of a packaged model. [Learn how to setup a deployment.](#)

Deployment

Packaged Model

Infrastructure

Scaling

Advanced (optional)

ⁱ The following configuration values are optional. [Learn more.](#)

Environment Variables [?]

field

value

Add new

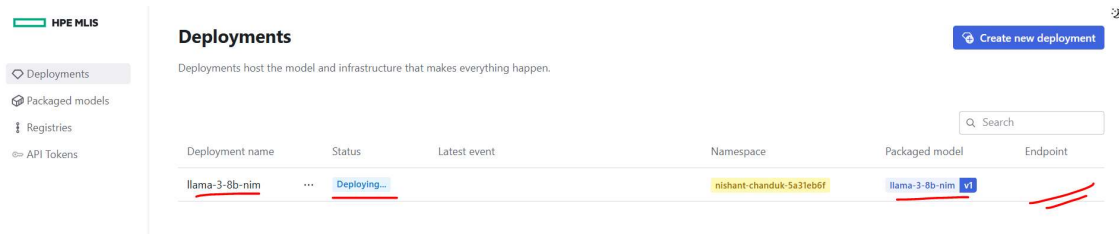
Arguments [?]

ex: --arg --foo

Cancel

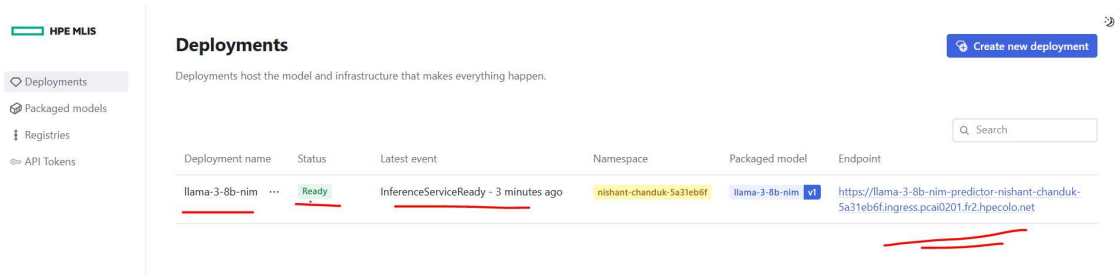
Back

Done



The above snapshot shows the model is getting deployed which will take some time.

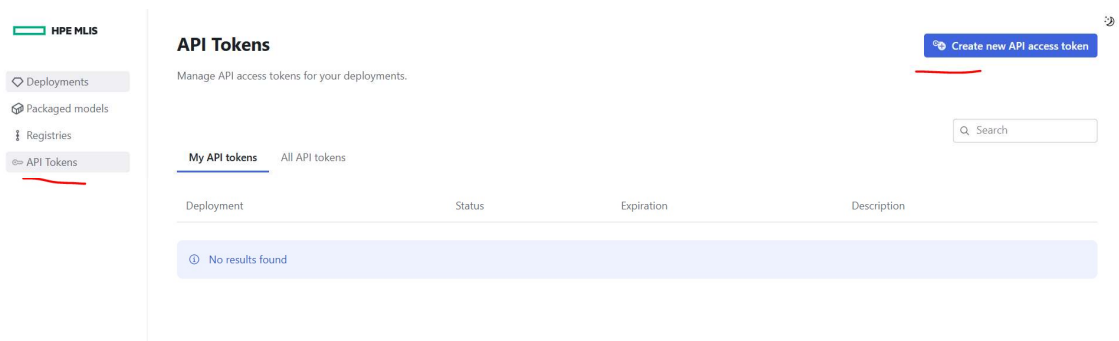
Once the model is in **Ready** state you would see a valid endpoint.



Now how to we access the model anywhere within or outside the system.

Go to **API Tokens**

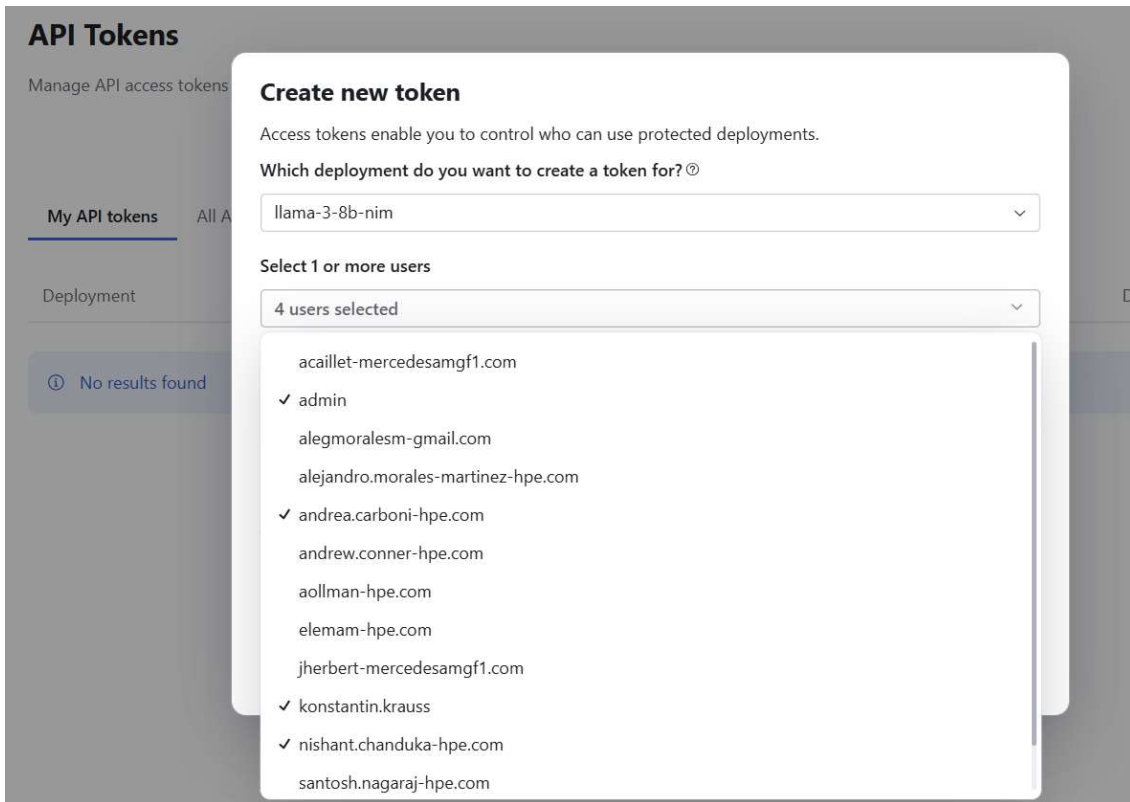
Click on **Create new API access Token**



The dropdown menu **Which deployment do you want to create a token for?** Will list the models you see in the **Deployments** tab only.

Select your model.

Select 1 or more users: Select the users you want to be able to use the token.



Add **Description of this token**

Select **When should this expire?**

API Tokens

Manage API access tokens for your deployments.

- [Deployments](#)
- [Packaged models](#)
- [Registries](#)
- [API Tokens](#)

My API tokens
All API tokens

Deployment	Status	Expiration
^ llama-3-8b-nim		
da93a7c7-e44b-428e...	Active	May 28, 2025

[Docs](#)
[API](#)
[Settings](#)

nishant.chanduk...
 (Admin)

nishant.chanduka-hpe.com
✕ Revoke

API Token Overview

Deployment	llama-3-8b-nim
Token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJleHAiOjE3NDg0MDctMjQsImVudCkiOiJ1bnNlYyYmZmN2M3LWVlbiGitiNDI4ZS00MTFLTRhM2JhODYOMjQ1YislnVzZXI0iuiaXNoYy50LmNoYW5kdWthLWhwZS5jb20ifQ.nqkZZZWkdXRBMRVeNURWDOViaR7inqJaI4-ttd32LxEbaMKZB77qhXG9tQO_CteXNgRAaBARabocetEPXuDeYWOLco5JPVSXNL3oVQ_ctexNRaGaBARabocetEPXuDeYWOLco5JP6gKtUrBpUsvTK1T4jm19Ufs-BldkmvxAgKdWvlzWLm0-Pgjwe9VEVs6HOUCucfkdrXDhEQjy1f5uDrmXy5oyca3Ok5AuboV/CZBFicVOehVY3QIA6omhHAOR52IZ1-J-1HobZLJOySyTsGcds6QX__epeQydPFflP2PLsIZrubl8DgCrPa_8iiiebO9Y9qQ09e9MH69uA
Id	da93a7c7-e44b-428e-811e-4a3ba864245b
Expiration	May 28, 2025
Description	access llama-3-8b NIM model
Revoked	false

Close