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# Downloading and uploading Model Repositories for an air-gapped environment

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# CLOUDERA

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## Downloading and uploading Model Repositories for an air-gapped environment

An air-gapped environment is physically isolated from the internet and external networks, preventing the transmission or reception of data online. As a result, enabling the download of Model Repositories in such environments requires the Administrator to perform additional steps.

To use Models from NVIDIA NGC and Hugging Face, the Administrator must download Model artifacts from these sources on specially networked hosts. The artifacts must then be manually transferred, uploaded to the object storage utilized by the Cloudera AI Registry and Cloudera AI Inference service. Following that, the available Models are ready to be used. This solution is an alternative to accessing Model Hub in an air-gapped environment.

### Prerequisites for downloading and uploading Model artifacts in air-gapped environment

Before downloading or uploading models, ensure you have the following tools and configurations installed on the host that is connected to the airgap setup. This might be your bastion host.



**Note:** NVIDIA NGC (NVIDIA GPU Cloud) access credentials are required for air-gapped environments. To obtain these credentials, contact the Cloudera team by submitting a support case.

- Make sure, you install the followings:
  - `pip install -U "huggingface_hub[cli]"`
  - `pip install awscli==1.35.0` is required for on premises setups.
  - `pip install pyyaml`
  - <https://org.ngc.nvidia.com/setup/installers/cli> for NVIDIA NGC catalog Models.

Make sure you configure the NVIDIA NGC client with the credentials provided by Cloudera.
- Make sure the Python version is 3.10.12 or higher and lower than version 3.11.
- Consider the following configuration details for NVIDIA NGC:

```
echo 'export NGC_CLI_API_KEY=<key>' >> ~/.bashrc
echo 'export NGC_API_KEY=<key>' >> ~/.bashrc
echo 'export NGC_CLI_ORG=<org>' >> ~/.bashrc
```

If the system has `~/.bash_profile` follow the above steps, but replace `bashrc` with `bash_profile`.

- Installing the NVIDIA Inference Microservice (NIM) CLI

This procedure details how Cloudera organization accounts can request early access and install the NIM CLI.

1. Obtaining Early Access to NIM CLI: Navigate to the [NVIDIA developer portal](#) and follow the on-screen instructions to request early access.
2. Installing NIM CLI: Once early access is granted, use the following steps to download and install the NIM CLI:

- a. Download the installer using the NVIDIA GPU Cloud (NGC) CLI:

```
ngc registry resource download-version nvidia/nim-tools/nimtools_installer:0.0.8
```

- b. Navigate to the installer directory:

```
cd nimtools_installer_v0.0.8/
```

- c. Run the Python installation script. Make sure you provide your NGC service key and the `--nimcli-only` flag:

```
python3 nimtools_installer.py --ngc-api-key [***your-ngc-service-key***] --nimcli-only
```



**Important:** You must also download the manifest folder from <https://github.com/cloudera/Model-Hub/tree/main/manifests>. Ensure the NGC specification file and these manifests are in the same directory.

- Download the following script to enable downloading Model repositories from the Hugging Face or NVIDIA NGC catalog and uploading Models to on premises storage providers.


Download the script from here: [https://raw.githubusercontent.com/cloudera/Model-Hub/refs/heads/main/airgap-scripts/pvc/1.5.5-sp1/import\\_to\\_airgap.py](https://raw.githubusercontent.com/cloudera/Model-Hub/refs/heads/main/airgap-scripts/pvc/1.5.5-sp1/import_to_airgap.py).

If you are still using Cloudera AI on premises 1.5.5 and have not upgraded to Cloudera AI on premises 1.5.5 SP1, use the following script: [https://github.com/cloudera/Model-Hub/blob/main/airgap-scripts/pvc/1.5.5/import\\_to\\_airgap.py](https://github.com/cloudera/Model-Hub/blob/main/airgap-scripts/pvc/1.5.5/import_to_airgap.py).

The script has the following parameters:

**Table 1:**

Parameter	Value	Description
-do		Activates download mod
-rt	hf	Repository type: hf for Hugging Face, use ngc for NVIDIA NGC catalog
-t	hf_hVQbUsafafafadfadfsNAynASXJoTCWHAEkj	Hugging Face API token for authentication, required for private or gated Models  The Hugging Face token -t is required for accessing gated Models  Models or Models that require authentication. For more information about tokens, see: <a href="https://huggingface.co/docs/hub/en/security-tokens">https://huggingface.co/docs/hub/en/security-tokens</a> .
-p	\$PWD/models	Local destination path where Model files are downloaded (uses current working directory)

Parameter	Value	Description
-ri	Nvidia/Llama-3.1-Nemotron-70B-Instruct-HF	Repository ID for the model on Hugging Face. profileId of the optimization profile in the NGC specification for the model.  You can obtain the ri argument for Hugging Face as follows:  1. Open up the Hugging Face page at: <a href="https://huggingface.co/">https://huggingface.co/</a> . 2. Search for the required model. The page of the model displays. 3. Click the  icon next to the name of the model, and copy the model ID, that is the ri argument to be used.
-ns	ngc_spec.yaml	NGC Specification File: Required when downloading NGC models.



#### Note:

To download an NGC model using the script, you must first download the NGC specification YAML file. This file will be provided as the -ns argument to the airgap script: [https://raw.githubusercontent.com/cloudera/Model-Hub/refs/heads/main/models/airgapped/private/1.51.0\\_concatenated.yaml](https://raw.githubusercontent.com/cloudera/Model-Hub/refs/heads/main/models/airgapped/private/1.51.0_concatenated.yaml).

If you are still using Cloudera AI on premises 1.5.5 and have not upgraded to Cloudera AI on premises 1.5.5 SP1, use the following script: [https://github.com/cloudera/Model-Hub/blob/main/models/airgapped/private/1.49.0\\_concatenated.yaml](https://github.com/cloudera/Model-Hub/blob/main/models/airgapped/private/1.49.0_concatenated.yaml).

## Understanding NVIDIA NGC file

The NGC specification script includes commands to iterate through the NGC specification file and retrieve the repository ID.

The NVIDIA NGC specification YAML file specifies metadata for NGC AI models, including multiple optimization profiles for each model. These profiles describe how each model is packaged and optimized for specific hardware and use cases (for example, latency or throughput tuning).

```
models:
  - name: ...
    modelVariants:
      - variantId: ...
        optimizationProfiles:
          - profileId: ...
```

The profileId of each optimizationProfile is the repository ID we provide as an -ri argument in the script.

The example NVIDIA NGC specification file provided below has the following details:

- one model: E5 Embedding v5
- one variant under modelVariants: E5 Embedding
- one optimizationProfile: nim/nvidia/nv-embedqa-e5-v5:5\_FP16\_onnx

```
models:
  - name: E5 Embedding v5
    displayName: E5 Embedding v5
    modelHubID: e5-embedding-v5
    category: Embedding
    type: NGC
    description: NVIDIA NIM for GPU accelerated NVIDIA Retrieval QA E5 Embe
dding v5
```

```

inference
modelVariants:
- variantId: E5 Embedding
  displayName: E5 Embedding
  source:
    URL: https://catalog.ngc.nvidia.com/orgs/nim/teams/nvidia/containers/
nv-embedqa-e5-v5
  optimizationProfiles:
  - profileId: nim/nvidia/nv-embedqa-e5-v5:5_FP16_onnx
    displayName: Embedding ONNX FP16
    framework: ONNX
    sha: onnx
    ngcMetadata:
      onnx:
        container_url: https://catalog.ngc.nvidia.com/containers
        model: nvidia/nv-embedqa-e5-v5
        model_type: embedding
        tags:
          llm_engine: onnx
        workspace: !workspace
        components:
          - dst: ''
            src:
              repo_id: ngc://nim/nvidia/nv-embedqa-e5-v5:5_tokenizer
          - dst: onnx
            src:
              repo_id: ngc://nim/nvidia/nv-embedqa-e5-v5:5_FP16_onnx
        modelFormat: onnx
        latestVersionSizeInBytes: 668847682
      spec:
        - key: DOWNLOAD SIZE
          value: 1GB
        - key: MAX TOKENS
          value: 512
        - key: Dimension
          value: 1024
        - key: NIM VERSION
          value: 1.0.1

```

To download this optimization profile using the airgap script use the following the command:

```
python3 import_to_airgap.py -do -rt ngc -p $PWD/models -ri nim/nvidia/nv-emb
edqa-e5-v5:5_FP16_onnx -ns ./ngc_spec.yaml
```

### Optimization profile ID

To understand optimization profiles, pay attention to the information highlighted in bold in the following example optimization profile:

nim/meta/llama-3.2-11b-vision-instruct:0.15.0.dev2024102300+ea8391c56-**h100x2-fp8-latency**.0.3.20143152

It conveys the following information:

- h100: The NVIDIA GPU type required to run this model is H100.
- x2: It specifies the two GPUS of H100.
- fp8: The precision is FP8, representing 8-bit floating-point format.
- latency: The model profile is designed to optimize latency.

### Traversing NVIDIA NGC specification file

The provided NGC specification file is nearly 5,000 lines long, making it tedious to manually locate the profile ID. To simplify this process, the airgap script includes commands to efficiently navigate through the NGC spec file.

Use the following commands to list all the models in the NGC specification file:

```
# List all models
python import_to_airgap.py -ns ./ngc-spec.yaml --list-all
=== ALL MODELS ===
1. Llama 3.2 Vision Instruct
   Display Name: Llama 3.2 Vision Instruct
   Category: Image to Text Generation
   Hub ID: llama-3.2-vision-instruct
   Description: The Llama 3.2 Vision instruction-tuned models are optimized
   for visual recognition, image reasoning,...

2. Mixtral Instruct
   Display Name: Mixtral Instruct
   Category: Text Generation
   Hub ID: mixtral-instruct
   Description: The Mixtral Large Language Model (LLM) is a pretrained ge
   nerative Sparse Mixture of Experts model. M...

3. E5 Embedding v5
   Display Name: E5 Embedding v5
   Category: Embedding
   Hub ID: e5-embedding-v5
   Description: NVIDIA NIM for GPU accelerated NVIDIA Retrieval QA E5 Embe
   dding v5 inference
```

To display all variants of a specific model, use the `-m` parameter to specify the model name from the list above, along with the `--list-variants` parameter to list all available model variants.

```
python3 import_to_airgap.py -ns ./ngc-spec.yaml -m "Llama 3.2 Vision Instruc
t" --list-variants

=== VARIANTS FOR 'LLAMA 3.2 VISION INSTRUCT' ===
1. Llama 3.2 11B Vision Instruct
2. Llama 3.2 90B Vision Instruct
```

To list all the optimization profiles for a given model and a model variant, use the following command:

```
python3 import-pvc.py -ns ./ngc-private.yaml -m "Llama 3.2 Vision Instruct"
-vid "Llama 3.2 11B Vision Instruct" --list-profiles

=== OPTIMIZATION PROFILES FOR 'LLAMA 3.2 VISION INSTRUCT' VARIANT 'LLAMA
3.2 11B VISION INSTRUCT' ===
1. nim/meta/llama-3.2-11b-vision-instruct:0.15.0.dev2024102300+ea8391c56-h
100x2-bf16-latency.0.3.20143152
2. nim/meta/llama-3.2-11b-vision-instruct:0.15.0.dev2024102300+ea8391c56-a10
gx4-bf16-throughput.0.3.20143152
3. nim/meta/llama-3.2-11b-vision-instruct:0.15.0.dev2024102300+ea8391c56-a1
0gx8-bf16-latency.0.3.20143152
4. nim/meta/llama-3.2-11b-vision-instruct:0.15.0.dev2024102300+ea8391c56-
h100x2-fp8-latency.0.3.20143152
....
```

Select an optimization profile that matches your hardware requirements and provide it as the repository ID using the `-ri` parameter in the `airgap` script to download the specific NGC model profile.

```
python3 import_to_airgap.py -do -rt ngc -p $PWD/models -ns ./ngc-spec.yaml -
ri nim/meta/llama-3.2-11b-vision-instruct:0.15.0.dev2024102300+ea8391c56-h10
0x2-fp8-latency.0.3.20143152
```



## Downloading Model Repositories for an air-gapped environment

To use Models from NVIDIA NGC and Hugging Face, the Administrator must download Model artifacts from these sources on specially networked hosts.

### Downloading a HuggingFace model

1. Download the Llama-3.1-Nemotron-70B-Instruct-HF Model from Hugging Face to your local file system with the following command:

```
python3 import_to_airgap.py -do -rt hf -t hf_hVQbUCkpCicZYjnqsNAfafafafa
fafaAEkj -p $PWD/models -ri Nvidia/Llama-3.1-Nemotron-70B-Instruct-HF
```

The download includes all Model files along with metadata in the specified destination directory.


2. Download a different Hugging Face Model to your local file system with the following command:

```
python3 import_to_arigap.py -do -rt hf -t <your-hf-token> -p $PWD/models -
ri meta-llama/Llama-2-70b-chat-hf
```

- You can obtain the ri argument for Hugging Face as follows:

- a. Open up the Hugging Face page at: <https://huggingface.co/>.
- b. Search for the required model.

The page of the model displays.

- c. Click the  icon next to the name of the model, and copy the model ID, that is the ri argument to be used.

The download includes all Model files along with metadata in the specified destination directory.



**Note:** The above commands download Model artifacts to Models subfolder in the current working directory.

### Downloading NGC model

- Download the NVIDIA NGC Model to your local file system with the following command:

```
python3 import_to_airgap.py -do -rt ngc -p $PWD/models -ri nim/meta/llam
a-3_1-70b-instruct:0.11.1+14957bf8-h100x4-fp8-throughput.1.2.18099809 -ns
ngc_spec.yaml
```



**Note:**

For NVIDIA NGC catalog downloads, use the -rt NGC argument and provide an NVIDIA NGC specification file with the -ns parameter. The -ns parameter is only required when downloading NVIDIA NGC Models and the NGC-specific file to use is specified. Cloudera distributes these specific files to you. For more information, contact Cloudera Support.

The download includes all Model files along with metadata in the specified destination directory.

## Uploading Model Repositories for an air-gapped environment

The Model artifacts must be manually transferred, uploaded to the object storage utilized by the Cloudera AI Registry and Cloudera AI Inference service.

## Before you begin

### 1. Configure AWS CLI with the appropriate Ozone credentials.

- Generate the Ozone S3 secret key and Ozone access key.



**Note:** Make sure the user, for whom you are generating the Ozone credentials, has the proper permissions in Ranger for the resource cm\_ozone.

- SSH to the Cloudera Manager host and run klist. You can find the hostname on Cloudera Manager Environments under Cloudera Manager.
- Skip this step if you see Kerberos ticket information. Otherwise run the following command with the configured Keytab.

```
# kinit -kt /cdep/keytabs/om.keytab om
Run klist to check if kerberos ticket is granted.
[root@cml-pvc-oldap-1 ~]# klist
Ticket cache: FILE:/tmp/krb5cc_0
Default principal: om@CDSW-INT.CLOUDERA.COM

Valid starting    Expires              Service principal
05/25/2022 14:32:13 05/26/2022 14:32:13  krbtgt/CDSW-INT.CLOUDERA.COM@CDSW-INT.CLOUDERA.COM
renew until 06/02/2022 14:32:13
```

- Get the Ozone S3 secret key, that is awsSecret and the Ozone access key, that is awsAccessKey by running the following command.

```
[root@cml-pvc-oldap-1 ~]# ozone s3 getsecret --om-service-id=ozone1
awsAccessKey=om@CDSW-INT.CLOUDERA.COM
awsSecret=40d5fc02fc882d53df3758a76184eb810ee97d9e1c45e5a7f2ef715bf31e5a0a
```

- Copy the awsAccessKey and awsSecret keys for configuring AWS CLI by executing the aws configure command:

```
aws configure
AWS Access Key ID [*****PAOF]:
AWS Secret Access Key [*****U4Fz]:
Default region name [None]:
Default output format [None]:
```

## Procedure

Run the import\_to\_airgap.py script.

```
python3.9 import_to_airgap.py -i -e <endpoint> -c <cloud_type> -s <source_directory> -d <destination> -ri <repository_id>
```

The script is used to upload the downloaded Model artifacts to a secured location in Cloudera on premises. The destination format must be s3://bucket/secured-models. This bucket location can be modified by the administrator to have a different value, as for example, s3://newBucket/not-secured .

You can use the parameters in table *Parameters for uploading the Models* for uploading the Models.

**Table 2: Parameters for uploading the Models**

Parameter	Description	Example
-i	Run in insecure mode and skip SSL verification. This is valid only for on premises environments, but it is not recommended for production use cases. Fetch the CA certificate to be used for the on premises environment.	-i
-ca	Specify the certificate to be used for Ozone S3 gateway communication.	-ca /path/to/cert.pem
-e	Ozone S3 gateway endpoint URL	-e https://ccycloud-5.cml-cai.root.com ops.site:9879
-c	Cloud type (on premises)	-c pvc
-s	Must contain the previously downloaded Model artifacts as it is the source directory of the downloaded Model.	-s \$PWD/models
-d	Must point to the Cloudera AI Registry bucket with the appropriate path.  The destination format must be: s3://bucket/secured-models	-d s3://bucket/secured-models
-rt	Repository type (Hugging Face or NVIDIA NGC)	-rt hf
-ri	Repository ID of the Model downloaded to local filesystem	-ri nim/meta/llama-3_1-70b-instruct:0.11.1+14957bf8-h100x4-fp8-throughput.1.2.18099809
--account	Azure storage account name (Azure only)	--account \$AZURE_STORAGE_ACCOUNT_NAME
--container	Azure storage container name (Azure only)	--container data

a) Upload the Model artifacts to a secured location.

The destination format must be: s3://bucket/secured-models:

```
python3.9 import_to_airgap.py -i -e https://ccycloud-5.cml-cai.root.com ops.site:9879 -c pvc -s $PWD/models -d s3://bucket/secured-models -ri nim/meta/llama-3_1-70b-instruct:0.11.1+14957bf8-h100x4-fp8-throughput.1.2.18099809
```

## What to do next

Changing the default model upload location

The default model upload location is set to s3://bucket/secured-models, where bucket corresponds to the bucket used during the setup of Cloudera AI Registry. To change this default upload location, for example, to s3://bucket1/another-secured-models, you can do so, by making an API call to Cloudera AI Registry:

```
curl -X 'PUT' \
  'https://[***Cloudera AI registry domain***]' \
  -H "Authorization: Bearer $CDP_TOKEN" \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
```

```
"remoteObjectStoragePath": "s3://bucket1/[***another-secured-model***]"
}
```

After the API call is successfully executed, the new upload location is ready for use.

## Creating the Model entry in Cloudera AI Registry in air-gapped environment

The example outlines how to create the Model entry in Cloudera AI Registry within an air-gapped environment.

```
curl -k https://$MODELREGISTRYDOMAIN/api/v2/models -X POST -H 'Content-Type: application/json' -H "Authorization: Bearer $TOKEN" --data-raw '{
  "name": "llama3-instruct-70b",
  "createModelVersionRequestPayload": {
    "metadata": {
      "model_repo_type": "NGC"
    },
    "downloadModelRepoRequest": {
      "source": "REMOTE",
      "remoteObjectStoragePath": "s3://bucket1/secured-models",
      "repo_id": "nim/meta/llama-3_1-70b-instruct:0.11.1+14957bf8-h100x4-fp8-throughput.1.2.18099809"
    }
  }
}'
```

This request creates a model in Cloudera AI Registry with the name llama3-instruct-70b and adds a version to the model. This request also copies the model artifacts from uploaded secured models' Ozone location to a preferred Cloudera AI Registry location in Ozone.

## Importing Model to Cloudera AI Registry in air-gapped environment

You can import the Hugging Face models listed on the Model Hub page into your Cloudera AI Registry.

### Before you begin

Download the following script to enable downloading Model repositories from the Hugging Face or NVIDIA NGC catalog and uploading Models to on premises storage providers.

Download the script from here: [https://raw.githubusercontent.com/cloudera/Model-Hub/refs/heads/main/airgap-scripts/pvc/1.5.5/import\\_to\\_airgap.py](https://raw.githubusercontent.com/cloudera/Model-Hub/refs/heads/main/airgap-scripts/pvc/1.5.5/import_to_airgap.py)

The script has the following parameters:

**Table 3:**

Parameter	Value	Description
-do		Activates the download mod
-rt	hf or ngc	Repository type: use hf for Hugging Face. Use ngc for NVIDIA NGC catalog.

Parameter	Value	Description
-t	hf_hVQbUsafafafafadfsNAynASXJoTCW HAEkj	Hugging Face API token for authentication (required for private or gated Models)  The Hugging Face token (-t) is required for accessing gated  Models or Models that require authentication. For more information about tokens, see: <a href="https://huggingface.co/docs/hub/en/security-tokens">https://huggingface.co/docs/hub/en/security-tokens</a>
-p	\$PWD/models	Local destination path where Model files are downloaded (uses the current working directory)
-ri	Nvidia/Llama-3.1-Nemotron-70B-Instruct-HF	Repository ID for the Model on Hugging Face

## Procedure

1. In the **Cloudera** console, click the Cloudera AI tile.  
The **Cloudera AI Workbenches** page displays.
2. Click **Model Hub** under **AI Hub** in the left navigation menu.  
The **Model Hub** page displays. The page lists different models along with their source type, tags, and description.



8. Enable the **Use Preloaded Artifacts** feature with its checkbox.
9. Click Import. The Model Hub page displays a message that the Model import has been triggered successfully along with a button to view the status of that import process.

### Results

You can click Cloudera AI Registry in the left navigation menu to view the newly imported Model.