
Synapse MaxMind Documentation

Release 3.9.0

The Vertex Project, LLC

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USER GUIDE

Synapse MaxMind adds new Storm commands for retrieving IPv4 and IPv6 location data from the [MaxMind GeoIP2](#) databases.

The GeoIP2 databases are included as part of the Synapse MaxMind distribution, and will be updated in periodic releases.

1.1 Getting Started

Check with your Admin to enable permissions.

1.2 Examples

1.2.1 Enrich an IPv4 node

Secondary properties are populated with data from the MaxMind database:

```
> inet:ipv4#my.ipv4 | maxmind
inet:ipv4=129.186.1.100
  .created = 2024/04/21 16:00:26.938
  :asn = 2698
  :latlong = 42.0373,-93.6005
  :loc = us.ia.ames
  :type = unicast
  #my.ipv4
```

inet:asn nodes are also created if the appropriate data is available:

```
> inet:ipv4#my.ipv4 | maxmind --yield
inet:asn=2698
  .created = 2024/04/21 16:00:27.039
  :name = iastate-as
```

1.3 Use of meta:source nodes

Synapse-MaxMind uses a meta:source node and -(seen)> light weight edges to track nodes observed from the MaxMind API.

```
> meta:source=cf52a2ea5eed1dffb4deb47e9055a90c8
meta:source=cf52a2ea5eed1dffb4deb47e9055a90c8
  .created = 2024/04/21 16:00:27.016
  :name = data from maxmind
  :type = maxmind
```

Storm can be used to filter nodes to include/exclude nodes which have been observed by Synapse-MaxMind. The following example shows how to filter the results of a query to include only results observed by Synapse-MaxMind:

```
> inet:asn:name^=iastate +{ <(seen)- meta:source=cf52a2ea5eed1dffb4deb47e9055a90c8 }
inet:asn=2698
  .created = 2024/04/21 16:00:27.039
  :name = iastate-as
```


ADMIN GUIDE

2.1 Configuration

2.1.1 Permissions

Package (synapse-maxmind) defines the following permissions:

power-ups.maxmind.user	: Controls user access to Synapse-Maxmind. (default: <code>false</code>)
------------------------	--

You may add rules to users/roles directly from storm:

```
> auth.user.addrule visi power-ups.maxmind.user
Added rule power-ups.maxmind.user to user visi.
```

or:

```
> auth.role.addrule ninjas power-ups.maxmind.user
Added rule power-ups.maxmind.user to role ninjas.
```

2.2 Exported APIs

Synapse-MaxMind does not currently export any APIs.

2.3 Node Actions

Synapse-MaxMind provides the following node actions in Optic:

```
Name : maxmind
Desc : Enrich nodes using Synapse-Maxmind
Forms: inet:ipv4, inet:ipv6
```


DEPLOYMENT GUIDE

3.1 Introduction

This guide will walk you through a production Synapse-MaxMind deployment. Synapse-MaxMind will register with AHA for service discovery and future devops tasks, and therefore this guide assumes the [Synapse Deployment Guide](#) has been followed.

As in the Synapse Deployment Guide, `docker-compose` will be used as a light-weight orchestration mechanism.

3.2 Preparation

With the [Synapse Deployment Guide](#) completed, the following items will be needed before starting the deployment:

- Access to the running AHA container.
- The previously chosen network name; referred to as `<yournetwork>` in this guide.
- A host prepared as specified by [Prepare your Hosts](#).

3.3 Deployment

Inside the AHA container

Generate a one-time use provisioning URL:

```
python -m synapse.tools.aha.provision.service 00.maxmind
```

You should see output that looks similar to this:

```
one-time use URL: ssl://aha.<yournetwork>:27272/<guid>?certhash=<sha256>
```

On the Host

Create the container directory:

```
mkdir -p /srv/syn/00.maxmind/storage
chown -R 999 /srv/syn/00.maxmind/storage
```

Create the `/srv/syn/00.maxmind/docker-compose.yaml` file with contents:

```
version: "3.3"
services:
  00.maxmind:
    user: "999"
    image: vertexproject/synapse-maxmind:v3.x.x
    network_mode: host
    restart: unless-stopped
    volumes:
      - ./storage:/vertex/storage
    environment:
      - SYN_MAXMIND_HTTPS_PORT=null
      - SYN_MAXMIND_AHA_PROVISION=ssl://aha.<yournetwork>:27272/<guid>?certhash=
        ↪<sha256>
```

Note: Don't forget to replace your one-time use provisioning URL!

Start the container:

```
docker-compose --file /srv/syn/00.maxmind/docker-compose.yaml pull
docker-compose --file /srv/syn/00.maxmind/docker-compose.yaml up -d
```

Remember, you can view the container logs in real-time using:

```
docker-compose --file /srv/syn/00.maxmind/docker-compose.yaml logs -f
```

3.3.1 Add the Service to the Cortex

From a Storm console add the service to the Cortex:

```
> service.add maxmind aha://maxmind...
```

3.4 What's next?

See the [Admin Guide](#) for instructions on performing application administrator tasks. See the [DevOps Guide](#) for instructions on performing various maintenance tasks on your deployment!

DEVOPS GUIDE

4.1 Overview

For a general overview of common devops tasks for Synapse services see [Synapse Devops Guide - Overview](#).

4.2 Common DevOps Tasks

4.2.1 Deploy a Mirror

Inside the AHA container

Generate a one-time use URL for provisioning from *inside the AHA container*:

```
python -m synapse.tools.aha.provision.service 01.maxmind --mirror maxmind
```

You should see output that looks similar to this:

```
one-time use URL: ssl://aha.<yournetwork>:27272/<guid>?certhash=<sha256>
```

On the Host

Create the container storage directory:

```
mkdir -p /srv/syn/01.maxmind/storage
chown -R 999 /srv/syn/01.maxmind/storage
```

Create the `/srv/syn/01.maxmind/docker-compose.yaml` file with contents:

```
version: "3.3"
services:
  01.maxmind:
    user: "999"
    image: vertexproject/synapse-maxmind:v3.x.x
    network_mode: host
    restart: unless-stopped
    volumes:
      - ./storage:/vertex/storage
    environment:
      # disable HTTPS API for now to prevent port collisions
      - SYN_MAXMIND_HTTPS_PORT=null
```

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```
- SYN_MAXMIND_AHA_PROVISION=ssl://aha.<yournetwork>:27272/<guid>?certhash=  
↪<sha256>
```

Note: Don't forget to replace your one-time use provisioning URL!

Start the container:

```
docker-compose --file /srv/syn/01.maxmind/docker-compose.yaml pull  
docker-compose --file /srv/syn/01.maxmind/docker-compose.yaml up -d
```

4.3 Devops Details

4.3.1 Docker Images

The Synapse-MaxMind service is available as a Docker container from Docker Hub. The repository can be found at:

<https://hub.docker.com/repository/docker/vertexproject/synapse-maxmind/>

Note: There are tagged images available on Docker Hub which correspond to software releases seen in the changelog. The docker tag `master` is the latest development release. A generic major version tag is available, representing the latest release on a given major version. For example, the `v3.x.x` tag represents the most current release for the `v3.x.x` release line. You can utilize specific tagged versions, or a major version specifier, depending on your chosen deployment strategy.

4.3.2 Configuration Options

The following is a list of available configuration options.

aha:admin

An AHA client certificate CN to register as a local admin user.

Type

string

Environment Variable

SYN_MAXMIND_AHA_ADMIN

aha:leader

The AHA service name to claim as the active instance of a storm service.

Type

string

Environment Variable

SYN_MAXMIND_AHA_LEADER

aha:name

The name of the cell service in the aha service registry.

Type

string

Environment Variable

SYN_MAXMIND_AHA_NAME

aha:network

The AHA service network. This makes aha:name/aha:leader relative names.

Type

string

Environment Variable

SYN_MAXMIND_AHA_NETWORK

aha:provision

The telepath URL of the aha provisioning service.

Type

['string', 'array']

Environment Variable

SYN_MAXMIND_AHA_PROVISION

aha:registry

The telepath URL of the aha service registry.

Type

['string', 'array']

Environment Variable

SYN_MAXMIND_AHA_REGISTRY

aha:user

The username of this service when connecting to others.

Type
string

Environment Variable
SYN_MAXMIND_AHA_USER

auth:anon

Allow anonymous telepath access by mapping to the given user name.

Type
string

Environment Variable
SYN_MAXMIND_AUTH_ANON

auth:passwd

Set to <passwd> (local only) to bootstrap the root user password.

Type
string

Environment Variable
SYN_MAXMIND_AUTH_PASSWD

backup:dir

A directory outside the service directory where backups will be saved. Defaults to ./backups in the service storage directory.

Type
string

Environment Variable
SYN_MAXMIND_BACKUP_DIR

dmon:listen

A config-driven way to specify the telepath bind URL.

Type
['string', 'null']

Environment Variable
SYN_MAXMIND_DMON_LISTEN

https:headers

Headers to add to all HTTPS server responses.

Type

object

Environment Variable

SYN_MAXMIND_HTTPS_HEADERS

https:parse:proxy:remoteip

Enable the HTTPS server to parse X-Forwarded-For and X-Real-IP headers to determine requester IP addresses.

Type

boolean

Default Value

False

Environment Variable

SYN_MAXMIND_HTTPS_PARSE_PROXY_REMOTEIP

https:port

A config-driven way to specify the HTTPS port.

Type

['integer', 'null']

Environment Variable

SYN_MAXMIND_HTTPS_PORT

limit:disk:free

Minimum disk free space percentage before setting the cell read-only.

Type

['integer', 'null']

Default Value

5

Environment Variable

SYN_MAXMIND_LIMIT_DISK_FREE

max:users

Maximum number of users allowed on system, not including root or locked/archived users (0 is no limit).

Type

integer

Default Value

0

Environment Variable

SYN_MAXMIND_MAX_USERS

nexslog:en

Record all changes to a stream file on disk. Required for mirroring (on both sides).

Type

boolean

Default Value

False

Environment Variable

SYN_MAXMIND_NEXSLOG_EN

onboot:optimize

Delay startup to optimize LMDB databases during boot to recover free space and increase performance. This may take a while.

Type

boolean

Default Value

False

Environment Variable

SYN_MAXMIND_ONBOOT_OPTIMIZE

STORM PACKAGE: SYNAPSE-MAXMIND

The following Commands are available from this package. This documentation is generated for version 3.9.0 of the package.

5.1 Storm Commands

This package implements the following Storm Commands.

5.1.1 maxmind

Enrich nodes using the MaxMind GeoIP2 metadata.

This commands takes `inet:ipv4` or `inet:ipv6` nodes as input and enriches them using the `↪MaxMind` database distributed with the service. Input nodes may have the following secondary properties `↪updated` depending on the results from the MaxMind database:

- `:asn`
- `:loc`
- `:latlong`

`inet:asn` nodes will also be created if the appropriate data is available from the `↪MaxMind` database. These are yielded if the `--yield` option is specified.

Examples:

```
// Enrich an inet:ipv4 node
inet:ipv4=129.186.1.100 | maxmind

// Enrich an inet:ipv6 node
inet:ipv6=2a02:6b8:b011:6b01:92e2:0:4d58:2f88 | maxmind
```

Usage: `maxmind [options]`

Options:

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```
--help           : Display the command usage.  
--debug          : Show verbose debug output.  
--size <size>    : Limit the number of results ingested to the given size.  
--yield          : Yield the newly created nodes.
```

5.2 Storm Modules

This package does not export any Storm APIs.

TELEPATH API

class `synmods.maxmind.service.MaxMindApi`

Bases: `CellApi`, `StormSvc`

A Telepath API for the MaxMind service.

async `queryIp(ip)`

Query the MaxMind database for an IP address.

Parameters

ip (*str*) – IPv4 or IPv6 address.

Notes

The results dictionary contains the following keys:

success

True or False, whether any elements of the query were successful.

result

Dict to be used for enriching the IP node and optionally creating new nodes.

mesg

String containing error/warning details or empty if successful.

Returns

Results dictionary.

Return type

dict

CHANGELOG

7.1 v3.9.0 - 2024-03-26

7.1.1 Features and Enhancements

- Update the service to build from Synapse v2.165.0.
- Update the Maxmind databases to the current release as of 2023-03-22.

7.2 v3.8.0 - 2024-03-01

7.2.1 Features and Enhancements

- Update the service to build from Synapse v2.164.0.
- Update the Maxmind databases to the current release as of 2023-02-27.

7.3 v3.7.10 - 2024-02-06

7.3.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2024-02-02.

7.4 v3.7.9 - 2024-01-03

7.4.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2024-01-02.

7.5 v3.7.8 - 2023-12-22

7.5.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-12-19.

7.6 v3.7.7 - 2023-12-01

7.6.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-11-28.

7.7 v3.7.6 - 2023-11-15

7.7.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-11-14.

7.8 v3.7.5 - 2023-10-30

7.8.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-10-27.

7.9 v3.7.4 - 2023-10-13

7.9.1 Features and Enhancements

- Update the service to build from Synapse v2.151.0.
- Update the Maxmind databases to the current release as of 2023-10-10.

7.10 v3.7.3 - 2023-09-25

7.10.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-09-22.

7.11 v3.7.2 - 2023-09-14

7.11.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-09-12.

7.12 v3.7.1 - 2023-08-21

7.12.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-08-18.

7.13 v3.7.0 - 2023-07-28

7.13.1 Features and Enhancements

- Update the service to build from Synapse v2.143.0.
- Update the Maxmind databases to the current release as of 2023-07-26.

7.14 v3.6.0 - 2023-07-07

7.14.1 Features and Enhancements

- Update the service to build from Synapse v2.141.0.
- Update the Maxmind databases to the current release as of 2023-07-07.

7.15 v3.5.3 - 2023-07-03

7.15.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-06-30.

7.16 v3.5.2 - 2023-06-05

7.16.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-06-02.

7.17 v3.5.1 - 2023-05-24

7.17.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-05-23.

7.18 v3.5.0 - 2023-05-18

7.18.1 Features and Enhancements

- Update the service to build from Synapse v2.134.0.
- Update the Maxmind databases to the current release as of 2023-05-16.

7.19 v3.4.0 - 2023-05-09

7.19.1 Features and Enhancements

- Update the service to build from Synapse v2.133.0.
- Update the Maxmind databases to the current release as of 2023-05-09.

7.20 v3.3.3 - 2023-04-04

7.20.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-04-04.

7.21 v3.3.2 - 2023-03-13

7.21.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-03-13.

7.22 v3.3.1 - 2023-02-24

7.22.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-02-24.

7.23 v3.3.0 - 2023-02-15

7.23.1 Features and Enhancements

- Rename the Storm package to synapse-maxmind.
- Update the Maxmind databases to the current release as of 2023-02-14.

7.24 v3.2.6 - 2023-01-30

7.24.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-01-27.

7.25 v3.2.5 - 2023-01-17

7.25.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2023-01-17.

7.26 v3.2.4 - 2023-01-02

7.26.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-12-30.

7.27 v3.2.3 - 2022-12-29

7.27.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-12-27.

7.28 v3.2.2 - 2022-12-27

7.28.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-12-20.

7.29 v3.2.1 - 2022-12-05

7.29.1 Bugfixes

- Fix a packaging issue.

7.30 v3.2.0 - 2022-12-05

7.30.1 Features and Enhancements

- Add boot hooks to the container entrypoint. Move the entrypoint script to `/vertex/synapse/entrypoint.sh`.
- Update the Maxmind databases to the current release as of 2022-12-02.

7.31 v3.1.3 - 2022-11-30

7.31.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-11-29.

7.32 v3.1.2 - 2022-10-27

7.32.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-10-25.

7.33 v3.1.1 - 2022-10-17

7.33.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-10-14.

7.34 v3.1.0 - 2022-10-09

7.34.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-10-07.
- Update the service to build from Synapse v2.110.0.

7.35 v3.0.15 - 2022-09-30

7.35.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-09-30.

7.36 v3.0.14 - 2022-09-12

7.36.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-09-09.

7.37 v3.0.13 - 2022-09-05

7.37.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-09-02.

7.38 v3.0.12 - 2022-08-29

7.38.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-08-29.

7.39 v3.0.11 - 2022-08-22

7.39.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-08-22.
- Update the Synapse-Maxmind service endpoint to use `synapse.servers.cell` instead of a custom endpoint script.

7.40 v3.0.10 - 2022-08-09

7.40.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-08-09.

7.41 v3.0.9 - 2022-08-02

7.41.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-08-02.

7.42 v3.0.8 - 2022-07-29

7.42.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-07-29.

7.43 v3.0.7 - 2022-07-26

7.43.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-07-26.

7.44 v3.0.6 - 2022-07-22

7.44.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-07-22.

7.45 v3.0.5 - 2022-07-20

7.45.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-07-19.

7.46 v3.0.4 - 2022-07-18

7.46.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-07-15.

7.47 v3.0.3 - 2022-07-12

7.47.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-07-12.

7.48 v3.0.2 - 2022-07-10

7.48.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-07-08.

7.49 v3.0.1 - 2022-06-30

7.49.1 Features and Enhancements

- Update the Maxmind databases to the current release as of 2022-06-30.

7.50 v3.0.0 - 2022-06-01

7.50.1 Features and Enhancements

- Update permissions to use `power-ups.maxmind.user` rule.
- Allow the `maxmind` command to yield `inet:asn` nodes it may create.
- Remove caching of query results.

7.50.2 Documentation

- Update documentation for AHA provisioning.

7.51 v2.14.0 - 2022-05-17

7.51.1 Features and Enhancements

- Update to the newest Synapse v2.93.0 to support AHA provisioning.

7.51.2 Bugfixes

- Load storm package readonly to allow containers to run as non-root user.

7.52 v2.13.0 - 2022-05-13

7.52.1 Features and Enhancements

- Remove Cortex caching of query results.

7.53 v2.12.0 - 2022-03-28

7.53.1 Features and Enhancements

- Update the Maxmind databases to the 20220322 release.

7.54 v2.11.0 - 2021-12-13

7.54.1 Features and Enhancements

- Add Optic node action for the `maxmind` command.
- Update the Maxmind databases to the 20211207 release.
- Embed some of the NetTools documentation into the Storm Package delivered by the NetTools Storm Service so it is available in Optic.

7.55 v2.10.0 - 2021-07-20

7.55.1 Features and Enhancements

- Update the service to use `tini` as a container entrypoint.

7.56 v2.9.0 - 2021-07-14

7.56.1 Features and Enhancements

- Update the service to ensure that the `meta:source` node is always made in the current View prior to creating any nodes which may be linked to it via a light edge. This removes the service `onload` event as a result.
- Updated Maxmind databases from the 20210713 Maxmind release.

7.57 v2.8.0 - 2021-06-21

7.57.1 Features and Enhancements

- Update the service to build from Synapse v2.43.0.
- Updated Maxmind databases from the 20210621 Maxmind release.

7.58 v2.7.0 - 2021-05-16

7.58.1 Features and Enhancements

- Update the service to build from Synapse v2.38.0.
- Updated Maxmind databases from the 20210514 Maxmind release. (#14)

7.59 v2.6.0 - 2021-04-26

7.59.1 Features and Enhancements

- Update the service to include information for the `getCellInfo()` API.
- Updated Maxmind databases from the 20210427 Maxmind release. (#12)

7.60 v2.5.0 - 2021-04-19

7.60.1 Features and Enhancements

- Updated Maxmind databases from the 20210413 Maxmind release. (#10)

7.61 v2.4.0 - 2021-01-07

7.61.1 Features and Enhancements

- Updated Maxmind databases from the 20210105 Maxmind release. (#8)
- Build new Docker tags for the latest release in a given major version. For example, this adds the `v2.x.x` Docker tag. (#9)

7.62 v2.3.0 - 2020-12-03

7.62.1 Features and Enhancements

- Updated Synapse to 2.12.3
- Implement last-enriched convention (#6)

7.63 v2.2.0 - 2020-09-22

7.63.1 Features and Enhancements

- Updated Maxmind databases from the 20200922 Maxmind release. (#5)

7.64 v2.1.0 - 2020-07-30

7.64.1 Features and Enhancements

- Updated Maxmind databases from the 20200728 Maxmind release. (#3)

7.65 v2.0.0 - 2020-06-30

7.65.1 Features and Enhancements

- Initial release of the Synapse MaxMind service.

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