



# Importing Annotations

## Cloud Insights

Tony Lavoie  
April 02, 2020

This PDF was generated from [https://docs.netapp.com/us-en/cloudinsights/task\\_annotation\\_import.html](https://docs.netapp.com/us-en/cloudinsights/task_annotation_import.html) on May 21, 2020. Always check docs.netapp.com for the latest.

# Table of Contents

Importing Annotations ..... 1

# Importing Annotations

Cloud Insights includes an API for importing annotations or applications from a CSV file, and assigning them to objects you specify.



The Cloud Insights API is available in **Cloud Insights Premium Edition**.

## Importing

The **Admin > API Access** links contain [documentation](#) for the **Assets/Import** API. This documentation contains information on the .CSV file format.

### ASSETS.import

**PUT** /assets/import Import assets from a CSV file.

Import annotations and applications from the given CSV file. The format of the CSV file is following:

```
Project]
, <Annotation Type> [, <Annotation Type> ...] [, Application] [, Tenant] [, Line_Of_Business] [, Business_Unit] [,
<Object Type Value 1>, <Object Name or Key 1>, <Annotation Value> [, <Annotation Value> ...] [, <Application>] [, <Tenant>] [, <Line_Of_Business>] [, <Business_Unit>] [,
<Project>]
<Object Type Value 2>, <Object Name or Key 2>, <Annotation Value> [, <Annotation Value> ...] [, <Application>] [, <Tenant>] [, <Line_Of_Business>] [, <Business_Unit>] [,
<Project>]
<Object Type Value 3>, <Object Name or Key 3>, <Annotation Value> [, <Annotation Value> ...] [, <Application>] [, <Tenant>] [, <Line_Of_Business>] [, <Business_Unit>] [,
<Project>]
...
<Object Type Value N>, <Object Name or Key N>, <Annotation Value> [, <Annotation Value> ...] [, <Application>] [, <Tenant>] [, <Line_Of_Business>] [, <Business_Unit>] [,
<Project>]
```

## .CSV File Format

The general format of the CSV file is as follows. The first line of the file defines the import fields and specifies the order of the fields. This is followed by separate lines for each annotation or application. You do not need to define every field. However, the subsequent annotation lines must follow the same order as the definition line.

```
[Object Type] , [Object Name or ID] , Annotation Type [, Annotation Type, ...] [,
Application] [, Tenant] [, Line_Of_Business] [, Business_Unit] [, Project]
```

See the API Documentation for examples of .CSV files.

You can import and assign annotations from a .CSV file from within the API swagger itself. Simply choose the file to use and click the *Execute* button:

Parameters

Cancel

No parameters

Request body

multipart/form-data

CSV file to import

data

string(\$binary)

Choose File

No file chosen

Execute

Clear

Responses

## Import Behavior

During the import operation, data is added, merged, or replaced, depending on the objects and object types that are being imported. While importing, keep in mind the following behaviors.

- Adds an annotation or application if none exists with the same name in the target system.
- Merges an annotation if the annotation type is a list, and an annotation with the same name exists in the target system.
- Replaces an annotation if the annotation type is anything other than a list, and an annotation with the same name exists in the target system.

Note: If an annotation with the same name but with a different type exists in the target system, the import fails. If objects depend on the failed annotation, those objects may show incorrect or unwanted information. You must check all annotation dependencies after the import operation is complete.

- If an annotation value is empty then that annotation is removed from the object. Inherited annotations are not affected.
- Date type annotation values must be passed in as unix time in milliseconds.
- When annotating volumes or internal volumes, the object name is a combination of storage name and volume name using the "->" separator. For example: <Storage Name>-><Volume Name>
- If an object name contains a comma, the whole name must be in double quotes. For example: "NetApp1,NetApp2"->023F
- When attaching annotating to storages, switches, and ports, the 'Application' column will be ignored.
- Tenant, Line\_Of\_Business, Business\_Unit, and/or Project makes a business entity. As with all business entities, any of the values can be empty.

The following object types can be annotated.

OBJECT TYPE	NAME OR KEY
-------------	-------------

Host	id-><id> or <Name> or <IP>
VM	id-><id> or <Name>
StoragePool	id-><id> or <Storage Name>-><Storage Pool Name>
InternalVolume	id-><id> or <Storage Name>-><Internal Volume Name>
Volume	id-><id> or <Storage Name>-><Volume Name>
Storage	id-><id> or <Name> or <IP>
Switch	id-><id> or <Name> or <IP>
Port	id-><id> or <WWN>
Qtree	id-><id> or <Storage Name>-><Internal Volume Name>-><Qtree Name>
Share	id-><id> or <Storage Name>-><Internal Volume Name>-><Share Name>-><Protocol>[-><Qtree Name (optional in case of default Qtree)>]

## Copyright Information

Copyright © 2020 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

## Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.