



# IBM System Storage DS8000 Series data collector

## Cloud Insights

Tony Lavoie  
February 20, 2020

This PDF was generated from [https://docs.netapp.com/us-en/cloudinsights/task\\_dc\\_ibm\\_ds.html](https://docs.netapp.com/us-en/cloudinsights/task_dc_ibm_ds.html) on May 07, 2020.  
Always check [docs.netapp.com](https://docs.netapp.com) for the latest.

# Table of Contents

- IBM System Storage DS8000 Series data collector..... 1
  - Terminology..... 1
  - Requirements ..... 1
  - Configuration..... 1
  - Advanced configuration..... 2
  - Troubleshooting..... 2

# IBM System Storage DS8000 Series data collector

The IBM DS (CLI) data collector supports inventory and performance data acquisition for DS6xxx and DS8xxx devices.

DS3xxx, DS4xxx, and DS5xxx devices are supported by the [NetApp E-Series data collector](#). You should refer to the Cloud Insights support matrix for supported models and firmware versions.

## Terminology

Cloud Insights acquires the following inventory information from the IBM DS data collector. For each asset type acquired by Cloud Insights, the most common terminology used for this asset is shown. When viewing or troubleshooting this data collector, keep the following terminology in mind:

Vendor/Model Term	Cloud Insights Term
Disk Drive Module	Disk
Storage Image	Storage
Extent Pool	Storage Node
Fixed Block Volume	Volume
Host FC Initiator (Mapped)	Volume Mask

Note: These are common terminology mappings only and might not represent every case for this data collector.

## Requirements

You need the following to configure this data collector:

- IP address of each DS array
- Read-only username and password on each DS array
- Third-party software installed on the Cloud Insights AU: IBM *dscli*
- Access validation: Run *dscli* commands using the username and password
- Port requirements: 80, 443, & 1750

## Configuration

Field	Description
DS Storage	IP address or fully-qualified domain name of the DS device
User Name	User name for the DS CLI
Password	Password for the DS CLI
<i>dscli</i> executable path	Full path to the <i>dscli</i> executable

## Advanced configuration

Field	Description
Inventory Poll Interval (min)	Interval between inventory polls (min). The default is 40.
Storage Display Name	Name of the IBM DS storage array
Inventory Exclude Devices	Comma-separated list of device serial numbers to exclude from inventory collection
Performance Poll Interval (sec)	The default is 300.
Performance Filter Type	Include: Data collected only from devices on list. Exclude: No data from these devices is collected
Performance Filter Device List	Comma-separated list of device IDs to include or exclude from performance collection

## Troubleshooting

Some things to try if you encounter problems with this data collector:

### Inventory

Problem:	Try this:
Error containing: CMUC00192E, CMUC00191E or CMUC00190E	<ul style="list-style-type: none"> <li>* Verify credentials and IP address entered.</li> <li>* Try to communicate with the array through web management console <a href="https://\${ip}:8452/DS8000/Console">https://\${ip}:8452/DS8000/Console</a>. Replace the <code>\${ip}</code> with data collector configured IP.</li> </ul>

Problem:	Try this:
<p>Error:</p> <ul style="list-style-type: none"> <li>* Cannot run program</li> <li>* Error executing command</li> </ul>	<ul style="list-style-type: none"> <li>* From Cloud Insights Acquisition Unit Open a CMD</li> <li>* Open CLI.CFG file in CLI's home dir/lib and check property JAVA_INSTALL, edit the value to match your environment</li> <li>* Display Java version installed on this machine, typing: "java -version"</li> <li>* Ping the IP address of the IBM Storage device specified in CLI command issued.</li> <li>* If all the above worked fine then manually run a CLI command</li> </ul>

Additional information may be found from the [Support](#) page or in the [Data Collector Support Matrix](#).

## 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.