NetWitness[®] Platform XDR Version 12.0

Warehouse Connector Configuration Guide



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How Warehouse Connector Works

Warehouse Connector collects meta and events from Decoder and Log Decoder and writes them in AVRO format into a Hadoop-based distributed computing system. You can set up the Warehouse Connector as a service on existing Log Decoders or Decoders.

The Warehouse Connector contains the following components:

- Data Source
- Destination
- Data Stream

Data Source

Warehouse Connector collects data from the data source to store it in the destination. The supported data sources are Log Decoder and Decoder.

Destination

Destination is the Hadoop-based distributed computing system that collects, manages, and enables reporting on security data. The following are the supported destinations:

- NetWitness Warehouse (MapR) deployments
- HortonWorks Data Platform
- Any Hadoop-based distributed computing system that supports WebHDFS or NFS mounting of HDFS file systems.

Example: Commercial MapR M5 Enterprise Edition for Apache Hadoop

Data Streams

A data stream is a logical connection between the data source and destination. You can have multiple streams for different subsets of data collected. You can setup streams to segregate data from multiple Decoder and Log Decoder services. You can create a stream with a single data source and destination or with multiple data sources and a single destination.

The Warehouse Connector:

- Aggregates session and raw log data from Decoders and Log Decoders.
- Transfers the aggregated data to supported destinations like Hadoop based deployments.
- Serializes the aggregated data that includes both schema and data into AVRO format.

Meta Filters

Meta filters enables you to filter the meta keys that should be written into the Warehouse. For more information, see <u>Specify Meta Filters for a Stream</u>.

Multi-Valued Meta Keys

NetWitness Warehouse supports multi-valued meta keys. The multi-valued meta keys is the meta field with the array type. You can use the meta keys library to determine the meta fields of type array and write HIVE queries with the correct syntax for arrays. By default, the following meta keys are treated as multi-valued and are defined in the file, **multivalue-bootstrap.xml** located at /etc/netwitness/ng in the Warehouse Connector:

- alias.host
- action
- username
- alias.ip
- alias.ipv6
- email
- device.group
- event.class

Checksum Validation

You can validate the file integrity of the AVRO files that are transferred from the Warehouse Connector to the data destinations. You need to enable checksum validation option when you configure the Warehouse Connector.

Lockbox Support

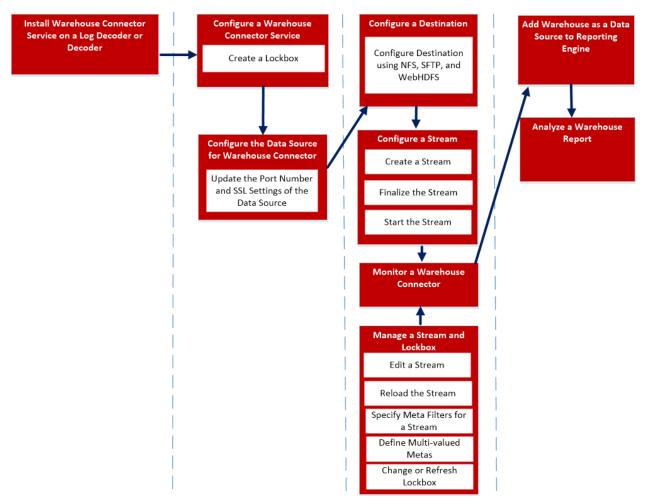
Lockbox provides an encrypted file that Warehouse Connector uses to store and protect sensitive data. You need to create the lockbox by providing a lockbox password while configuring the Warehouse Connector for the first time.

Note: You can orchestrate Warehouse Connector on a Log Decoder or a Decoder appliance.

The following is an overview on how to install and configure the Warehouse Connector service on Log Decoder or Decoder.

- Configuring the Warehouse Connector service on NetWitness,
- Configuring data sources,
- Destinations,
- Streams for Warehouse Connector,
- Configuring alert notifications on NetWitness.

Note: RSA NetWitness Platform has added a Health & Wellness stat for Warehouse Connector to indicate the status of its Lockbox. Also, an out-of-the-box rule has been added so that a Health & Wellness alarm is raised when the Lockbox does not exist or cannot be opened.



To install and configure the Warehouse Connector service, perform the following:

- 1. Install Warehouse Connector Service on a Log Decoder or Decoder or Hybrid
- 2. Configure a Warehouse Connector Service
- 3. Configure the Data Source for Warehouse Connector
- 4. Configure the Destination
- 5. Configure a Stream
- 6. Monitor a Warehouse Connector
- 7. Add Warehouse as a Data Source to Reporting Engine
- 8. Analyze a Warehouse Report
- 9. Manage a Stream

Install Warehouse Connector Service on a Log Decoder or Decoder or Hybrid

To install (fresh install) the Warehouse Connector service on a Log Decoder or Decoder or Hybrid:

- 1. Log in to NW Admin server
- Enter the following command on NetWitness Server: warehouse-installer --help The command line interface (CLI) usage descriptions are displayed.
- 3. Install Warehouse Connector service by executing the following command: warehouse-installer --host-key <ID, IP address, hostname or display name of Decoder, Log Decoder, or Hybrid host>
- 4. Restart the Warehouse Connector using following command: service nwwarehouseconnector restart

The Warehouse Connector service is successfully installed on the Log Decoder or Decoder or Hybrid.

Note: If you have custom-defined host entries in /etc/hosts, make sure to have the same entires in /etc/hosts.user. Run the following command to ensure that the host names are updated in this installation: nw-manage --refresh-host --host-key <ID, IP, hostname or display name of host> For more information, see "Manage Custom Host Entries in /etc/hosts" in the System Maintenance Guide.

Configure a Warehouse Connector Service

You can configure the Warehouse Connector service using the following procedure.

To set the Lockbox password:

- 1. Log on to NetWitness.
- 2. Go to **(Admin) > Services**.
- 3. In the Services view, select the added Warehouse Connector service, and select [♥] → View > Config.
- 4. In the Services Config view of Warehouse Connector, click the Lockbox Settings tab.

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HOSTS SERVICES	INT SOURCES ENDPOINT SOURCES HEALTH & WELLNESS SYSTEM SECURITY			
🛔 Change Service Wa	rehouse Connector Config 🐵			
Sources and Destinations	Streams Lockbox Settings General Appliance Service Configuration			
Create New Lockbox				
Set the lockbox password. The pass	vord should satisfy lockbox password strength.You will be required to enter this password to perform any lockbox management.			
Lockbox Password	******			
Confirm Lockbox Password	******			
Apply				
Change Lockbox Pas	sword			
Change the lockbox password. You	vill be required to enter current password and new password. The password should satisfy lockbox password strength.			
Current Lockbox Password	******			
New Lockbox Password	******			
Confirm New Lockbox Password	****			
Apply				
Refresh Lockbox				
Reset the lockbox.You will be requir	et to enter current lockbox password.			
Lockbox Password	4.9.4.9.4.4.4			
Apply				
				11.5.0.0

- 5. In the Create New Lockbox section, perform the following:
 - a. In the Lockbox Password field, enter the new lockbox password.

Note: The lockbox password must be at least eight characters in length and it must contain at least three of the following groups: one uppercase character [A-Z], one lowercase character [a-z], one numeral [0-9], and one special character.

- b. In the Confirm Lockbox Password field, enter the added lockbox password to confirm.
- c. Click Apply.

The Lockbox password is set.

Configure the Data Source for Warehouse Connector

There are two procedures for configuring the data source for the Warehouse Connector:

- 1. First, you must configure the data source.
- 2. Then, you need to update the Port Number and SSL Settings for the Data Source.

Configure the Data Source

To configure the data source:

- 1. Log on to NetWitness.
- 2. Go to (Admin) > Services.
- In the Services view, select the added Warehouse Connector service, and select > View > Config.
 The Services Config view of Warehouse Connector is displayed.
- 4. On the Sources and Destinations tab, in the Source Configuration section, click +.

Ava	ilable Services		
ø	Name ^	Address	Туре
ø	Decoder		Decoder
ø	Log Decoder		Log Decoder
			Cancel
			Cancel OK

 In the Available Services dialog, select the Log Decoder or Decoder services that you want to add as a source to the Warehouse Connector service and click OK. The selected Log Decoder and Decoder services are listed in the Source Configuration section.

Update the Port Number and SSL Settings of the Data Source

If there is change to the port number or SSL settings of the Warehouse Connect data sources, you can update the changes in Explore view of the Warehouse Connector.

Make sure that:

- You have the changed port number or SSL settings of the data source.
- You have stopped the streams related to the data source that is updated with the port number or SSL settings.

To update the port number or SSL settings:

- 1. Log on to NetWitness.
- 2. Go to **(Admin) > Services**.
- 3. In the Services view, select the added Warehouse Connector service and select > **Explore**.

The Service Explore view of Warehouse Connector is displayed.

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warehouseconnector	as neappinnea	
C config		
deviceappliance		
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4. Navigate to **warehouseconnector/sources**, right-click the source, and click **Properties**. The Properties of the source is displayed.

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HOSTS SERVICES EVENT SOUR	RCES ENDPOINT SOURCES HEALTH & WELLNESS SYSTEM SECURITY	
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warehouseconnector		
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- 5. In the drop-down menu, select update. In the Parameters field, perform the following:
 - To update the port number of the source, enter port=<new_source_portnumber> and click Send.

Parameters port=443

• To update the SSL settings of the source, enter ssl=<new_ssl_settings> and click Send.

 Parameters ssl=on
 Send

 Note: You can also update the port number and ssl settings simultaneous by adding space between the parameters.
 Parameters port=443 ssl=on

 Parameters port=443 ssl=on
 Send

- 6. Restart the Warehouse Connector service.
- 7. Start the streams.

Send

Configure the Destination

You can configure the destination using NFS, SFTP, and WebHDFS. Change the destination to which the Warehouse Connector service needs to write the collected data using NFS:

- NetWitness Warehouse (MapR) deployments
- Commercial MapR M5 Enterprise Edition for Apache Hadoop deployments

You can configure the Warehouse Connector to write to a remote destination using Secure File Transfer Protocol (SFTP). The remote destination can be a remote server that is NFS mounted to the MapR cluster or it can be a remote staging server.

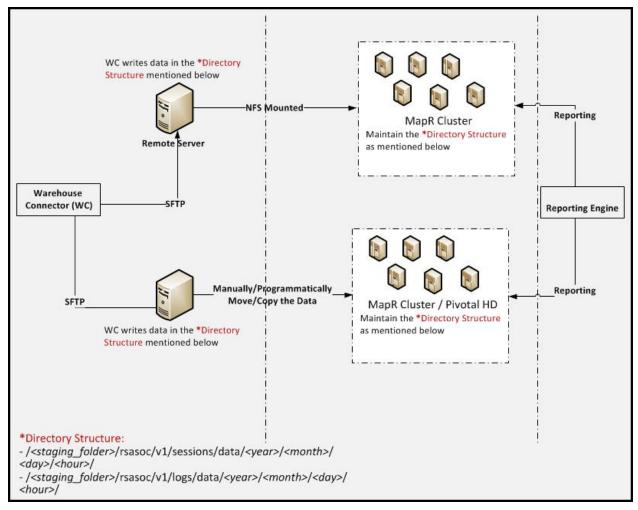
By default, in the remote destination the Warehouse Connector writes data in the following directory structure:

- /<staging_ folder>/rsasoc/v1/sessions/data/<year>/<month>/<day>/<hour>/
- /<staging_folder>/rsasoc/v1/logs/data/<year>/<month>/<day>/<hour>/<Where <staging_folder> is the folder on the remote server where the Warehouse Connector writes the data.

If you are using a remote staging server as the remote destination, you need to manually copy or move the directory structure to any of the following deployments:

- NetWitness Warehouse (MapR)
- Commercial MapR M5 Enterprise Edition for Apache Hadoop
- HortonWorks HD

To generate reports from the data written by Warehouse Connector, make sure that in your Hadoop deployment you maintain a similar directory structure that is created by Warehouse Connector in the remote destinations.



The following illustration describes how you can use SFTP to write data from Warehouse Connector to a remote destination.

You can configure the Warehouse Connector service to write the collected data to a Hadoopbased distributed computing system that supports WebHDFS.

Configure the Destination Using NFS

Make sure that you have:

- Installed the Warehouse Connector service or virtual appliance in your network environment.
- Added the Warehouse Connector service to NetWitness. For more information, see "Add a Service to a Host" in the *Hosts and Services Getting Started Guide*.
- Set up NFS on Warehouse Connector. For more information on how to set up NFS on Warehouse Connector, see "Configure Warehouse Connector to Write to Warehouse" in the *Warehouse (MapR)* Configuration Guide.

To configure the destination using NFS:

- 1. Log on to NetWitness.
- 2. Go to **(Admin) > Services**.
- In the Services view, select the Warehouse Connector service, and select > View > Config. The Services Config View of Warehouse Connector is displayed.

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🏯 Change Service Warehouse Connector Config					
Sources and Destinations Streams Lockbox Settings	General Appliance Se	ervice Configuration			
Source Configuration			Destination Configuration		
+ -			+ - 🗵		
Name	Address	Port	Name	Туре	Path
logdecoder1 - Log Decoder	10101030-000	56004	NFS	nfs	/root/test/kaushal
logdecoder2 - Log Decoder	1111-12-18	56002	SFTP SFTP	sftp	/root/test

- 4. On the Sources and Destinations tab, in the Destination Configuration section, click 🕇.
- 5. In the Add Destination dialog, from the Type drop-down list, select NFS.
- 6. In the **Name** field, enter a unique symbolic name for the destination.

Note: The Name field does not support spaces or special characters except underscore (_).

7. In the **Local Mount Path** field, enter the locally mounted directory for HDFS where you want the Warehouse Connector to write the data. For example:

If /saw is the local mount point for HDFS that you have configured while mounting the mapr NFS cluster on the host where you have installed the Warehouse Connector service to write to NetWitness Warehouse (MapR), create a directory named **Ionsaw01** under /saw and the corresponding Local Mount Path for the destination would be /saw/Ionsaw01.

For more information, see "Mount the Warehouse on the Warehouse Connector" topic in the *Warehouse (MapR) Configuration Guide*.

Add Destination				
Type *	NFS		~	
Name *				
Local Mount Path *				
		Cancel	Save	1

The /saw mount point implies to / as the root path for HDFS. The Warehouse Connector writes the data to /Ionsaw01 in HDFS.

- 8. Click Save.
- 9. (Optional) If you want to enable checksum validation, perform the following:



b. In the Services view, select the added Warehouse Connector service, and select > View > Explore.

The Explore view of Warehouse Connector is displayed.

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E rest	storedproc	
services	5)5	
C storedproc	users	
□ 🗀 sys	warehouseconnector	
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warehouseconnector		
C config		
T stats		
C deviceappliance		
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- c. In the options panel, navigate to **warehouseconnector/destinations/nfs/config**. This is the name of the destination and is dynamic.
- d. Set the parameter is ChecksumValidationRequired to 1.

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A Change Service Warehouse Con	nector Explore ⊙		
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Warehouse Connector (WAREHOUSE_CO	isChecksumValidationRequired	1	
	root	/root/test/kaushal	
	subtype	nfs	
	type	hdfs	
C rest			
Services			
□ storedproc			
E Sys			
□ □ users			
warehouseconnector			
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destinations			
E C NFS			
🗋 config			
C SFTP			
sources			
🗋 stats			
deviceappliance			
1			
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e. Restart the respective stream.

Configure the Destination Using SFTP

Make sure that you have:

- Installed the Warehouse Connector service or virtual appliance in your network environment.
- Added the Warehouse Connector service to NetWitness. For more information, see the "Add a Service to a Host" in the *Hosts and Services Getting Started Guide*.
- For the SFTP destination type, the destination host should be listed in the /root/.ssh/known_hosts file used by the ssh service (for example, sshd) running on the Warehouse Connector.

Add Destination from Warehouse Connector Host

To add the destination host to the /**root**/.**ssh**/**known_hosts** file, from the Warehouse Connector host, initiate a secure connection to the destination host:

- 1. Log in to the Warehouse Connector.
- 2. Enter ssh root@<SAWIP> or ssh username@<SAWIP>.
- 3. Select **Yes** and enter the password.
- 4. Add the host key in the /root/.ssh/known_hosts file

Note: After you upgrade Warehouse Connector to 11.0, you must make sure that the destination host is listed in the /root/.ssh/known_hosts file used by the SSH service (i.e. sshd) running on the Warehouse Connector. If you do not perform this action, the streams configured with SFTP in Warehouse Connector will not start.

• If you want to use SFTP to write data into the destination using SSH key-based access, you need to configure SSH key-based access between the Warehouse Connector and the Warehouse host or Hadoop node. For more information, see **Configure SSH Keys** below.

Note: If you want to enable checksum validation to validate the integrity of the AVRO files that are transferred from the Warehouse Connector to the destinations, make sure that you generate the keys without setting the passphrase and do a key exchange between Warehouse Connector and the warehouse nodes.

Configure SSH Keys

To configure SSH key-based access between the Warehouse Connector and the Warehouse host or Hadoop node:

- 1. Generate SSH keys on the Warehouse Connector at the default location. Perform the following:
 - a. SSH to the Warehouse Connector.
 - b. Type the following command and press ENTER:
 - \$ OWB_FORCE_FIPS_MODE_OFF=1 ssh-keygen -t ecdsa -b 521
 - c. The command prompts you to enter the file in which to save the generated key.

Enter file in which to save the key (/root/.ssh/id ecdsa):

d. Enter the file in which you want to save the key and press ENTER.

The command prompts you to enter and confirm the passphrase.

Note: If you want to enable checksum validation to validate the integrity of the AVRO files that are transferred from the Warehouse Connector to the destinations, make sure that you do not set the **passphrase**. Then, the below steps e, f, g, and h are not applicable.

```
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
```

The public key is generated and is saved in the location that you provided.

Note: If the SSH key is not generated in the default location (/root/.ssh/id_ecdsa), you need to configure the destination for warehouse connector through Explore view. For more information, see To configure the destination through Explore view:.

e. Change the directory by entering the following command:

cd /root/.ssh/

f. Move the generated key to the below location:

```
mv ~/.ssh/id_ecdsa ~/.ssh/id_ecdsa.old
```

g. Type the following command and press ENTER:

```
$ OWB_FORCE_FIPS_MODE_OFF=1 openssl pkcs8 -topk8 -v2 des3 -in id_
ecdsa.old -out id ecdsa
```

The command prompts you to enter and confirm the passphrase.

- h. Enter the encryption passphrase.
- i. Run the following command to change the file permission:

chmod 600 ~/.ssh/id_ecdsa

- j. Copy the generated public key to append to the remote Warehouse host or Hadoop node. ssh-copy-id -i ~/.ssh/id ecdsa.pub root@<destination host ipaddress>
- 2. SSH to remote Warehouse host or Hadoop node as "ssh '<user>@<ip address>", if identity key file is at default location.

or

SSH to remote Warehouse host or Hadoop node as "ssh '<user>@<ip address> -i <identity file path>", If identity key file is not at default location.

3. Append the generated public key to the remote Warehouse host or Hadoop node's authorized keys list located at ~/.ssh/authorized keys.

Note: Make sure that you copy the public keys to the Hadoop node and while copying the public key ensure that you provide the login details of the user using which the WebHDFS destination would be added.

You can now securely communicate between Warehouse Connector and Warehouse nodes or Hadoop nodes.

Configure Warehouse Connector to use SFTP destination

Note: If the SSH key is not generated in the default location (/root/.ssh/id_ecdsa), you need to configure the destination through Explore view. For more information, see <u>To configure the destination</u> through Explore view:

To configure the destination through User Interface:

- 1. Log on to NetWitness
- 2. Go to **(Admin) > Services**.
- In the Services view, select the added Warehouse Connector service, and select > View
 Config.

The Services Config view of Warehouse Connector is displayed.

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Sources and Destinations Streams Lockbox Settings	General Appliance Se	rvice Configuration				
Source Configuration			Destination Configuration			
+ -			+ - 🗵			
Name Name	Address	Port	Name	Туре	Path	
logdecoder1 - Log Decoder	1011110-000	56004	NFS	nfs	/root/test/kaushal	
logdecoder2 - Log Decoder	11-1-12-28	56002	SFTP SFTP	sftp	/root/test	
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4. On the Sources and Destinations tab, in the Destination Configuration section, click 🕇 .

5. In the Add Destination dialog, select SFTP from the Type drop-down list.

Add Destination				
Type *	SFTP		~	
Name *				
Host *				
Port *	22		\$	
Username *				
Password/Passphrase	*******			
Remote Path *				
		Cancel	Save	

6. In the Name field, enter a unique symbolic name for the destination.

Note: The Name field does not support spaces or special characters except underscore (_).

- 7. In the Host field, enter the remote server IP address.
- 8. In the **Port** field, retain the default port, **22**.
- 9. In the Username field, enter the SSH username.

Note: In the case of HortonWorks HD, ensure that the username is gpadmin and for password based access the password for gpadmin should be used. For passphrase-based access, the passphrase used to generate the keys for gpadmin user should be used.

- 10. In the Password/Passphrase field, enter one of the following:
 - SSH password If you are using SFTP to write data into the destination using password-based access.
 - SSH passphrase If you are using SFTP to write data into the destination using SSH key-based access.
- 11. In the Remote Path field, enter the path of the directory present on the SFTP server.
- 12. Click Save.
- 13. (Optional) If you want to enable checksum validation, perform the following:
 - a. Go to **(Admin) > Services**.
 - b. In the Services view, select the added Warehouse Connector service, and select > View
 > Explore.

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services	storedproc	
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stats		
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The Explore view of Warehouse Connector is displayed.

- c. In the options panel, navigate to warehouseconnector/destinations/sftp/config.
- d. Set the parameter isChecksumValidationRequired to 1.

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	known.hosts.file	
H 🕀 Warehouse Connector (WAREHOUSE_CO	password ++++++++	
Connections	root /root/test	
II 🗋 logs	isChecksumValidationRequired 1	
🗉 🗋 rest	host 10.31.204.44:22	
Services	type hdfs	
storedproc	username root	
🖬 🗀 sys	subsype sftp	
users		
■ 🗁 warehouseconnector		
C config .		
destinations		
□ □ NFS		
SFTP		
C config		
sources		
tats		
C deviceappliance		
< >		
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e. Restart the respective stream.

To configure the destination through Explore view:

- 1. Go to (Admin) > Services.
- 2. In the Services view, select the added Warehouse Connector service, and select > View
 > Explore.

RSA Investigate Respond	j Users Hosts Files Dashboard Reports	이 다 로 % ⑦ admin ✔
HOSTS SERVICES EVENT SOUR		
A Change Service Warehouse Conr	nector Explore ©	
≡Warehouse Connect <	undefined Warehouse Connector (Warehouse Connector)	
E 🕀 Warehouse Connector (WAREHOUSE_C	connections	
	logs	
	rest	
□ rogs	services	
services	storedproc	
storedproc	3/5	
□ sys	users	
□ users	warehouseconnector	
users	deviceappliance	
	1	
C config		
stats		
C deviceappliance		
	1	
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The Explore view of Warehouse Connector is displayed.

3. Right click on "warehouseconnector" node and select properties.

RSA Investigate Respond	d Users Hosts Files Dashboard Reports	ΦŌ	* (?) admin 🗸
HOSTS SERVICES EVENT SOUR	CES ENDPOINT SOURCES HEALTH & WELLNESS SYSTEM SECURITY			
A Change Service Warehouse Conr	nector Explore \odot			
Warehouse Connect <	undefined Warehouse Connector (Warehouse Connector) connections logs rest services storedproc sys users warehouseconnector			
Users Varehouseconnector	Properties for Warehouse Connector (WAREHOUSE_CONNECTOR) /ware	house		•
☐ config ☐ stats ■ ☐ deviceappliance	add Parameters Message Help Add a source, destination or a stream to this archiver. security.roles: warehouseconnector.manage parameters: parameters: source - <string, (ip-address:[ip-address]:[0-65535])="" optional,=""> The connection endpoint (ip:port) of a NetWitness captor)</string,>	ure device		Send
RSA NETWITNESS' PLATFORM	Response Output			11.5.0.0

4. Select "add" property and manually enter the below config parameters. name=<destination name> destination=sftp://<destination path> host=<destination host ipaddress:port> type=hdfs port=22 username=<username> password=<password> privKeyFile=<private key file path>

Aggregate Metas and Raw Logs for a Log Session

To aggregate raw logs and metas from Log Decoder into a single AVRO file instead of two folders.

- 1. Go to **ADMIN** > **Services**.
- Select a Warehouse Connector service and click > View > Explore. The Explore view for the Warehouse Connector is displayed.
- 3. Open warehouseconnector/streams/<stream name>/loader/config and in the right pane, select the export.logAndsession.avro.enabled parameter.
- 4. Change the value to **yes**.
- 5. Restart the service.
- 6. Go to **ADMIN** > **Services**.
- 7. Select a Warehouse Connector service and click > View > Config.
- 8. On the Streams tab, select the stream that you want to reload.
- 9. Click Reload.

Configure the Destination Using WebHDFS

Make sure that you have:

- Installed the Warehouse Connector service or virtual appliance in your network environment.
- Added the hostname (or FQDN) and IP address of the warehouse nodes and Warehouse Connector to the DNS server. If the DNS server is not configured, add the hostname (or FQDN) and IP address of the warehouse nodes and Warehouse Connector to the file in the host on which the Warehouse Connector service is installed.
- If you want Kerberos authentication between the warehouse connector and the warehouse cluster, make sure that you perform the following:
 - Kerberos Key Distribution Center (KDC) Server is configured in your network environment and the Kerberos Keytab file is copied to the host on which you have installed Warehouse Connector.
 - Kerberos authentication is enabled in the warehouse cluster.
- If you want to enable checksum validation to validate the integrity of the AVRO files that are transferred from the Warehouse Connector to the destinations, make sure that you generate the keys without setting the passphrase and do a key exchange between the Warehouse Connector and the warehouse nodes. You need to configure SSH key-based access between the Warehouse Connector and the Warehouse host or hadoop node. For more information, see 'Configure SSH Keys' in Configure the Destination Using SFTP.

Configure Warehouse Connector to Write to SFTP destination

To configure the destination:

- 1. Log on to NetWitness.
- 2. Go to **(Admin) > Services**.
- 3. In the Services view, select the added Warehouse Connector service and select > View
 > Config.

The Services Config view of Warehouse Connector is displayed.

RSA Investigate Respond Users H	losts Files Dashboa	rd Reports			친 교 ※ ⑦ admin ✔		
HOSTS SERVICES EVENT SOURCES ENDPOIN		WELLNESS SYSTEM					
Change Service Warehouse Connector Config. ©							
Sources and Destinations Streams Lockbox Settings	General Appliance Se	rvice Configuration					
Source Configuration			Destination Configuration				
+ -			+ - 🗷				
Name	Address	Port	Name	Туре	Path		
logdecoder1 - Log Decoder	10100-000-000	56004	NFS	nfs	/root/test/kaushal		
logdecoder2 - Log Decoder	1111-12-12	56002	SFTP SFTP	sftp	/root/test		
					11.50		

- 4. On the Sources and Destinations tab, in the Destination Configuration section, click +.
- 5. In the Add Destination dialog, select WebHDFS from the drop-down list.

Add Destination		×
Type *	WebHDFS	~
Name *		
Hadoop IP *		
Hadoop Port *		\$
Username *		
Hadoop Path *		
Kerberos Authentication		
	Cancel	Save

6. In the **Name** field, enter a unique symbolic name for the destination.

Note: The Name field does not support spaces or special characters except underscore (_).

- 7. In the **Hadoop IP** field, enter the namenode IP address of the warehouse cluster.
- 8. In the Hadoop Port field, enter the base port that is used by the namenode web user interface.
- 9. In the **Username** field, enter the owner of the directory in the warehouse to which Warehouse Connector should write the data.
- 10. In the **Hadoop Path** field, enter the path of the directory in the warehouse to which Warehouse Connector should write the data.
- 11. Select the **Kerberos Authentication** checkbox, if you want the warehouse connector to securely communicate with the warehouse using Kerberos authentication.

Add Destination				\times
Type *	WebHDFS		~	
Name *				
Hadoop IP *				
Hadoop Port *			\$	
Username *				
Hadoop Path *				
Kerberos Authentication	\checkmark			
Kerberos Principal *				
Kerberos Keytab File Path *				
	l	Cancel	Save	

Perform the following:

- a. In the Kerberos Principal field, enter the KDC Principal used for Kerberos authentication.
- b. In the **Kerberos Keytab File Path** field, enter the path of the Kerberos Keytab file in the Warehouse Connector.
- 12. Click Save.
- 13. (Optional) If you want to enable checksum validation, perform the following:
 - a. Go to **(Admin) > Services**.
 - b. In the Services view, select the added Warehouse Connector service and select > View
 > Explore.

The Explore view of Warehouse Connector is displayed.

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HOSTS SERVICES EVENT SOUR		
A Change Service Warehouse Con	nector Explore ©	
≡Warehouse Connect <	undefined Warehouse Connector (Warehouse Connector)	
Connector (WAREHOUSE_C	connections	
Connections	logs rest	
□ 🗋 logs	services	
🛙 🗋 rest	storedproc	
services	5)5	
■ 🗋 storedproc	users	
□ 🗋 sys	warehouseconnector	
□ 🗋 users	deviceappliance	
□ □ warehouseconnector		
C config		
stats		
deviceappliance		
		11.5.0.0
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- c. In the options panel, navigate to warehouseconnector/destinations/webhdfs/config.
- d. Set the parameter isChecksumValidationRequired to 1.

RSA Investigate Respond	Users Hosts Files Dashbo	ard Reports	Č 🗘 🗷 % ⑦ admin 🗸
HOSTS SERVICES EVENT SOUR		& WELLNESS SYSTEM SECURITY	
A Change Service Warehouse Conr	nector Explore ©		
≡Warehouse Connect <	/warehouseconnector/destinations/NFS/config	Warehouse Connector (Warehouse Connector)	
Warehouse Connector (WAREHOUSE_CO	isChecksumValidationRequired	1	
Connections	root		
	subtype	nfs	_
I cest	type	hdfs	_
storedproc			
□ □ users			
a warehouseconnector			
destinations			
II DI NFS			
□ □ SFTP			
Sources			
□ stats			
deviceappliance			
< >	1		
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e. Restart the respective stream.

Configure a Stream

You can configure the data stream to define the data source and destination combinations.

Make sure that you have:

- Installed the Warehouse Connector service or virtual appliance in your network environment.
- Added the Warehouse Connector service to NetWitness. For more information, see "Add a Service to a Host" in the *Hosts and Services Getting Started Guide*.
- Configured the data source from which the Warehouse Connector service needs to collect data. For more information, see Configure the Data Source for Warehouse Connector.
- Configured the destination to which the Warehouse Connector service needs to write the collected data. For more information, see Configure the Destination.

To configure the stream:

- 1. Create a stream
- 2. Finalize the stream
- 3. Start the stream

Create a Stream

To create a stream:

- 1. Go to (Admin) > Services.
- In the Services view, select the added Warehouse Connector service and select >View > Config.

The Services Config view of Warehouse Connector is displayed.

3. Click the **Streams** tab.

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HOSTS SERVICES EVENT SOURCES END	DPOINT SOURCES HEALTH & WELLNESS SYSTEM SECURITY		
A Change Service Warehouse Connector	Config 🐵		
Sources and Destinations Streams Lockbox Set	tings General Appliance Service Configuration		
🕂 — 🗹 Start Stop Reload Finalize			
Name	Sources	Destination	Status
θ		Rearry and the second se	running
To configure the alert mechanisms related to the Warehous	a Connector povinte here		
	e connector navigate nere.		
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4. On the **Streams** tab, click +.

Add Stream			• B ×
Stream Name *			
Select Destination *	Choose Destinat	ion	1
Select Source *			
Name	Address	Port	Session ID
		56004	Enter Session
		56002	Enter Session
		_	
		Car	ncel Save

- 5. In the Add Stream dialog, perform the following steps:
 - a. In the Stream Name field, enter a name for the stream.

Note: The **Stream Name** field does not support spaces or special characters except underscore (_).

b. In the **Select Destination** drop-down menu, select a destination from the list of destinations added to the Warehouse Connector.

- c. In the Select Source field, select sources from the list of sources displayed.
- d. In the Session ID column, enter the last session id.
 If you provide any session id, the Warehouse Connector will start the aggregation from that session, whereas if this is left blank, the aggregation will start from the current session.
- e. Click Save.

Finalize a Stream

To finalize the stream:

- 1. Go to **(Admin) > Services**.
- In the Services view, select the added Warehouse Connector service and select > View > Config.

The Services Config view of Warehouse Connector is displayed.

3. On the **Streams** tab, select the stream that you have created.

RSA Investigate Respond Users	Hosts Files Dashboard Reports	δĻΙ	I % (?) admin ✔
HOSTS SERVICES EVENT SOURCES END	POINT SOURCES HEALTH & WELLNESS SYSTEM SECURITY		
A Change Service Warehouse Connector	Config ©		
Sources and Destinations Streams Lockbox Set	tings General Appliance Service Configuration		
🕂 — 🗹 Start Stop Reload Finalize			
□ Name	Sources	Destination	Status
0	:50002	1000	running
To configure the alert mechanisms related to the Warehouse	e Connertor navigate here		
	e connector nongote neres		11 5 0 0

4. Click Finalize.

Start a Stream

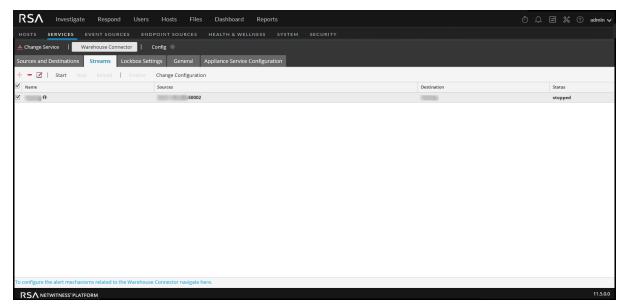
Note: If you have deployed a Warehouse Connector Virtual Appliance, make sure that you change the default value of the Maximum Message Hold Count parameter to 800000. For more information, see <u>General Tab Settings</u>.

To start the stream:

- 1. Go to **(Admin) > Services**.
- 2. In the Services view, select the added Warehouse Connector service and select Service > View > Config.

The Services Config view of Warehouse Connector is displayed.

3. On the **Streams** tab, select the stream that you have created.



4. Click Start.

Monitor a Warehouse Connector

By monitoring a Warehouse Connector, you can automatically generate notifications when critical thresholds concerning Warehouse Connector and its storage have been met.

To monitor a Warehouse Connector:

- 1. Go to **(Admin) > Services**.
- In the Services view, select the added Warehouse Connector service and select > View
 Config.

The Services Config view of Warehouse Connector is displayed.

- 3. Click the Streams tab.
- At the bottom of the Streams tab, click To configure the alert mechanisms related to the Warehouse Connector navigate here.

The Warehouse Connector Monitoring view is displayed.

This page is deprecated and will be removed in a future release.

5. In the **Source or Destination Status** section, select the number of minutes or hours in the **Notify Offline For** field.

You will receive a notification if the source or destination connection fails for the defined number of minutes or hours.

- 6. In the Stream Status section, perform the following:
 - a. In the **Notify Stopped For** field, define the number of minutes or hours after which you would like to receive a notification when the stream goes offline.
 - b. In the **Disk Is** field, define the limit on the percentage of disk usage after which you would like to receive a notification.
 - c. In the **Source is Behind** field, define the number of sessions. A notification is raised if the source goes behind the defined number of sessions.
 - d. In the **Rejected Folder Size is** field, define the limit on the percentage of folder usage after which would like to receive a notification.
 - e. In the **Number Of Files in Permanent Failure Folder** field, define the limit on the number of files in the permanent failure folder after which you would like to receive a notification.
- 7. In the Notification Type field, perform the following:
 - a. Click **Configure email or distribution list** to configure email so that you can receive notifications in NetWitness. For more information, see the "Configure Email Server and Notification Account" topic in the *System Configuration* guide.
 - b. Click **Configure Syslog and SNMP Trap servers** to configure audit logs. For more information, see the "Configure Syslog and SNMP Settings" topic in the *System Configuration* guide.
 - c. Select the following notification mechanisms as per your requirement:

- NetWitness Console To get notifications on the NetWitness UI notification toolbar.
- Email To get email notifications.
- Syslog Notification To generate syslog events.
- SNMP Trap Notifications To get audit events as SNMP traps.

Add Warehouse as a Data Source to Reporting Engine

You must add Warehouse as a data source to Reporting Engine to make this data source available to report against this Reporting Engine. For more information, see "Add Warehouse as a Data Source to Reporting Engine" in the *Reporting Engine Configuration Guide*.

Analyze a Warehouse Report

The Warehouse modules provide analysts with reports of early indicators of compromise. The following Warehouse reports can be analyzed in NetWitness:

- Suspicious Domains report
- Suspicious DNS Activity report
- Host Profile report

For more information, see "Step 4. Analyze a Warehouse Report" in the Warehouse Guide.

View the Warehouse Connector Service

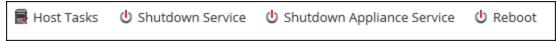
While the information displayed in the Services System view is the same for all types of core services, several options in the toolbar are relevant only for Warehouse Connector.

To access this view:

- 1. Go to **(Admin) > Services**.
- In the Services view, select a Warehouse Connector and select > View > System. The Systems view for the selected Warehouse Connector is displayed.

RSA	Investigate	Respond Users Ho	sts Files Dashboard Repor			ਁ 문 % ⑦ admin	
ноятя	SERVICES EVE	NT SOURCES ENDPOIN	SOURCES HEALTH & WELLNESS	SYSTEM SECURITY			
🌲 Change Si	ervice Wareh	ouse Connector System					
📕 Host Tas	ks 🖞 Shutdown Ser	vice 😃 Shutdown Appliance	Service 😃 Reboot				
Wareho	use Connector	Service Information		Applia	nce Service Information		
Name	Decoder (Wareho	use Connector)		Name	Decoder (Host)		
Version	11.1.0.0 (Rev null	1		Version	11.2.0.0 (Rev null)		
Memory Us	age 29640 KB (0.09%	of 32176 MB)		Memory	Usage 26700 KB (0.08% of 32176 MB)		
CPU	1496			CPU	D96		
Running Sin	ace 2018-Apr-26 09:3	3:59		Running	ince 2018-Apr-26 09:07:00		
Uptime	3 days 23 hours 4	minutes 17 seconds		Uptime	3 days 23 hours 31 minutes 23 seconds		
Current Tim	1e 2018-Apr-30 08:3	8:16		Current T	ime 2018-Apr-30 08:38:23		
Wareho	use Connector	User Information		Host L	Iser Information		
Name	admin			Name	admin		
Groups	Administrators			Groups	Administrators		
Roles		age, logs.manage, services.mar ge, sys.manage, users.manage,		Roles	appliance.manage, connections.manage, lo storedproc.execute, storedproc.manage, sy		
Session	Information						
Session		User	IP Address		Login Time 🔨	Active Queries	
171		admin	[::1]:35428		2018-Apr-26 09:36:45	0	
200		admin	[::1]:35430		2018-Apr-26 09:36:45	0	
290		escalateduser	10.31.125.251:58208		2018-Apr-26 09:36:55	0	
000		adasta	10 21 125 251.50200		2010 4-2 26 00-50-72	0	

The following is an example of toolbar options for Warehouse Connectors.



Host Tasks, Shutdown Service, Shutdown Appliance Service or (Shutdown Appliance), and Reboot are common to all services and are described in the *Hosts and Services Getting Started Guide*.

Troubleshoot the Warehouse Connector

The following information suggests the possible issues that NetWitness users may encounter when adding a Warehouse service to the Reporting Engine as a data source for reporting in NetWitness. Look for explanations and solutions in this section.

While adding a Warehouse service to the Reporting Engine as a data source for reporting, you may observe some of the errors listed in this document. Information is provided on how to troubleshoot the errors and add the data source successfully.

New Service		e×3
		_
Source Type *	WAREHOUSE ~	,
Warehouse Source *	HiveServer2 ~	,
Name *	PDH2.0-DCA]
HDFS Path *	/]
Advanced		
Host *]
Port *	10000]
Username *	gpadmin]
Password	******]
Kerberos Authentication		
Server Principal *		
User Principal *		
Kerberos Keytab File *]
Enable Jobs		
Test Connection		
	Cancel	Save

The following figure shows the New Service dialog.

For more information, see "Add Warehouse as a Data Source to Reporting Engine" in the *Reporting Engine Configuration Guide*.

Error	Possible Solutions				
Could not open connection to HiveServer	 Ensure that the HiveServer2 is running on the Host. Check if the port provided can be accessible from the Reporting Engine server. 				
No Schema found in HDFS path	Ensure that meta avro data file(s) are available in the HDFS path (<hdfs path="">/rsasoc/v1/sessions/meta) mentioned. The following figure shows an example of the command to check the files in hdfs.</hdfs>				
14/12/09 10:31:59 INFO util.Nativ 14/12/09 10:31:59 INFO security.J	fs -lsr /testdata/rsasoc/v1/sessions/meta eCodeLoader: Loaded the native-hadoop library niBasedUnixGroupsMapping: Using JniBasedUnixGroupsMapping for Group resolution 76 2013-08-28 01:09 /testdata/rsasoc/v1/sessions/meta/nwdev-testing.avro				
Could not open connection to HiveServer, GSS initiate failed	GSS initiate failed errors will be observed only in the case of Kerberos enabled Hive. Ensure that the proper keytab file is provided and it should have read options for the rsasoc user (user on which the Reporting Engine Server runs). Ensure that the system time is synchronized between KDC, Hadoop (HortonWorks) server, and the Reporting Engine system.				

Add SFTP Destination

To add SFTP destination to Warehouse Connector, you need to follow the below steps:

- 1. SSH to NetWitness Host and run the following command to edit ssd_config file: vi/etc/ssh/sshd_config file
- 2. Do not comment HostKey/etc/ssh/ssh_host_rsa_key
- 3. You must append KexAlgorithms +diffie-hellman-group14-sha1, diffie-hellmangroup-exchange-sha1
- 4. Run the following command to restart NetWitness Host: systemctl restart sshd
- 5. On Warehouse Connector Host SSH to NetWitness Host and run the following command: ssh -o "HostKeyAlgorithms ssh-rsa" root@<NWhost_IP> For example, ssh -o "HostKeyAlgorithms ssh-rsa" root@10.10.10.10
- 6. Run the following curl command on Warehouse Connector Host to authenticate: curl -vvvv sftp://root:netwitness@<NWhost_ip>:22/root/ For example, curl -vvvv sftp://root:netwitness@<10.10.10.10>:22/root/
- 7. You can now add SFTP Destination from UI.

Manage a Stream

You can manage a stream using the following procedures:

- Edit a Stream
- Reload the Stream
- Specify meta filters for a Stream
- Define multi-valued metas

Edit a Stream

You can edit a stream to perform the following:

- Add data sources to the stream.
- Delete existing data sources from the stream.

To edit a stream:

- 1. Go to (Admin) > Services.
- 2. In the Services view, select the added Warehouse Connector service and select > View > Config.

The Services Config view of Warehouse Connector is displayed.

RSA Investigate Respond Users Ho	osts Files Dashboai	rd Reports			친 로 % ⑦ admin ✔		
HOSTS SERVICES EVENT SOURCES ENDPOINT							
🚠 Change Service Warehouse Connector Config							
Sources and Destinations Streams Lockbox Settings	General Appliance Ser	vice Configuration					
Source Configuration Destination Configuration							
+ -			+ - 🗵				
Name Name	Address	Port	Name	Туре	Path		
logdecoder1 - Log Decoder	1010-001-001	56004	NFS	nfs	/root/test/kaushal		
logdecoder2 - Log Decoder	11-1-12-12	56002	□ SFTP	sftp	/root/test		
RS∧ netwitness [,] platform					115.0.0		

- 3. On the Streams tab, click \square .
- 4. In the Edit Stream dialog, you can perform the following:

• On the Available Sources tab, you can select the available data sources to add to the stream and click Save.

Edit Stream			×
Stream Name			
Destination			
Available Sources Curr	ent Sources		
□ Name	Address	Port	Session ID
:50004		50004	Enter Session
		Cancel	Save

On the Current Sources tab, you can delete an existing data source from the stream. Select the data source and click

Edit Stream				
Stream Name]	
Destination]	
Available Sources Current Sou	irces			
-		At least one	e source	is required
□ Name	Address		Port	
:50002			50002	
		Ca	ncel	Save

Reload the Stream

When you reload the stream, the Warehouse Connector updates the schema file for the stream. You must reload the stream when you add a new custom meta to the Log Decoder or Decoder.

To reload the stream:

- 1. Go to (Admin) > Services.
- In the Services view, select the added Warehouse Connector service and select > View > Config.

The Services Config view of Warehouse Connector is displayed.

- 3. On the Streams tab, select the stream that you want to reload.
- 4. Click Reload.

Specify Meta Filters for a Stream

You need to specify the filter for each stream in the export.session.meta.fields parameter in the Explore view of the Warehouse Connector.

The following table lists the values that you can provide as a filter:

Values	Description
*	All the collected metas are written to SAW.
, meta1, meta2	All the metas except the defined metas are written to SAW. For example, Filter:, ip.src All the metas except ip.src is written to SAW.
meta1, meta2, meta3	Only the defined metas are written to SAW.

Note: By default, the following metas are written to Warehouse even if you specify them in the filter: - ng_source

- unique_id
- time

To specify meta filters for a Stream:

- 1. Go to **(Admin) > Services**.
- In the Services view, select a Warehouse Connector services and select > View > Config. The Explore view of the Warehouse Connector service is displayed.

RSA Investigate Respond	j Users Hosts Files Dashboard Reports	Ő ậ 로 % ⑦ admin ✔
HOSTS SERVICES EVENT SOU	RCES ENDPOINT SOURCES HEALTH & WELLNESS SYSTEM SECURITY	
A Change Service Warehouse Con	nector Explore ©	
≡ Warehouse Connect <	undefined Warehouse Connector (Warehouse Connector)	
E 🕀 Warehouse Connector (WAREHOUSE_C	connections	
Connections	logs	
	rest	
□ □ rest	services	
	storedproc	
storedproc	sys users	
□ □ sys	users warehouseconnector	
users	deviceappliance	
warehouseconnector	our recorporation	
C config		
☐ stats		
deviceappliance		
< >		
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- 3. In the options panel, select warehouseconnector > streams > <stream_name> > loader > config.
- 4. In the export.session.meta.fields parameter, enter the filter.

RSA Investigate Respond	Users Hosts Files Dashbo	ard Reports	് 🗘 🗟 % 🕜 admin
HOSTS SERVICES EVENT SOUR		& WELLNESS SYSTEM SECURITY	
A Change Service Warehouse Con	nector Explore ⊙		
≡Warehouse Connect <	/warehouseconnector/streams/ /loader/config	Warehouse Connector (Warehouse Connector)	
Warehouse Connector (WAREHOUSE_C	:50002	10231	
	avro.load.interval	3	
Connections	bulk.copy	0	
Iogs	destination.online	1	
🖬 🗋 rest	export.log.enabled	yes	
services	export.rollup	hour	
Storedproc	export.session.enabled	yes	
🖬 🗋 sys	export.session.meta.fields	*	
users	hold.count	100000	
warehouseconnector	hold.interval	60	
C config	< hold.size	512 MB	
C destinations	loader.stats.interval	1	
sources	page.size	200000	
C stats	permrejected.number	0	
□ streams	rejected.size	0	
Testing	root	/testing	
C1 config	thread.count	4	
loader	thread.pool.count	3	
C config	use.compression	deflate	
i stats	wait.thread.pool	2	
🗀 schema 🗸			
< >	1		
RSA NETWITNESS' PLATFORM	1		11.5.0

5. Restart the stream.

Define Multi-valued Metas

You can also define an existing meta or a custom meta to be treated as multi-valued meta.

To define multi-valued metas:

Caution: Defining an existing meta to be treated as multi-valued may change the data type of the meta and cause the associated reports to fail.

- 1. Create a new file with the filename multivalue-users.xml in the /etc/netwitness/ng directory.
- 2. Add the following entries:

Where NEWMETANAME is the existing meta or a custom meta to be treated as multi-valued meta.

Caution: Make sure that you do not add metas that are by default treated as non multi-value.

3. Restart the stream.

View the current schema

You can view the current schema that is used by warehouse connector for writing in AVRO files.

To view the current schema:

- 1. Go to (Admin) > Services.
- In the Services view, select a Warehouse Connector services and select > View > Explore.
 The Explore view of the Warehouse Connector service is displayed.
- 3. In the options panel, select warehouseconnector > streams > <stream_name> > config.
- 4. Set the value for refresh.schemanode.enabled parameter to true. By default, this value is set to false.

RSA Investigate Resp	oond Users Hosts Files Dashboard	Reports Ö 🗘 🗷 % 🕜 admin
HOSTS SERVICES EVENT SOUP	RCES ENDPOINT SOURCES HEALTH & WELLNES	
A Change Service decoder141 - Wa	arehouse Connector Explore $ \odot $	
■decoder141 - Wareh <	/warehouseconnector/streams/within Config	decoder141 - Warehouse Connector
	aggregate.nice	true
services	aggregate.sessions	1000
Storedproc	aggregation.interval	10
🖾 🗀 sys	auto.startup	off
🖬 🗋 users	destination	/warehouseconnector/destinations/
warehouseconnector	free.space	1024 MB
config	handle.multivalue	false
C destinations	heartbeat.error	120
sources	heartbeat.interval	10
T stats	max.pending	80
■ ⇔ streams	refresh.schemanode.enabled	true
	rejected.maxusage	30 A configuration node whose value can alter system
	sources	/warehouseconnector/sources/10.101.33.141:50004
C config	state	running
🛛 🗋 loader	stream.data.path	/var/netwitness/warehouseconnector/bulk/
schema	stream.id	1589975797421821
stats 🗸	stream.startpercent	50
RSA NETWITNESS" PLATFORM		11.5.0

- 5. Reload the stream. For more information see, Reload the Stream.
- 6. Restart the Warehouse Connector service.

7. Go to **(Admin) > Services**.

- In the Services view, select a Warehouse Connector services and select >View > Explore. The Explore view of the Warehouse Connector service is displayed.
- 9. In the options panel, select **warehouseconnector** > **streams** > **schema**, to view the current schema.

Note: You must to reload the stream every time, before you want to view the current schema or you can add a scheduler to reload the stream automatically at regular intervals as mentioned in step 10.

- 10. (Optional) To reload the stream automatically at regular intervals, follow the below steps.
 - a. Go to **%** (Admin) > Services.
 - b. In the Services view, select a Warehouse Connector services and select > View
 > Explore.

The Explore view of the Warehouse Connector service is displayed.

- c. In options panel, select warehouseconnector > sys > config > scheduler. Right click and select properties.
- d. In the property drop down select addInter and in the **Parameters** text box, add "hours=24 pathname=/warehouseconnector/streams/<stream name> msg=reload".

RSA Investigate Resp	pond Users Hosts	s Files	Dashboard	Reports		Č	s Q	٩٩	℅	🕐 admin 🗸
HOSTS SERVICES EVENT SOUR	RCES ENDPOINT SOURC		H & WELLNESS							
🏯 Change Service 🕴 decoder141 - Wa	arehouse Connector Exp	lore ⊚								
≡decoder141 - Wareh <	/sys/config/scheduler			decoder141 - W	/arehouse Connector					
🗏 🗁 decoder141 - Warehouse Connector (WAR	-									
Connections										
🖾 🗀 deviceappliance										
🖬 🗀 logs										
🖾 🗋 rest	Description for all a	4.4.4		Contractor				C /		utan N
services	Properties for dec	oder141 -	- warenouse	e Connecto	or (WAREHOUSE_CONN	IECTOR) /sy	/s/cor	ntig/s	sched	uler. ×
🗉 🗋 storedproc	addinter 👻 Paramete	ers hours=24 g	athname=/wareho	useconnector/str	reams/msg=reload					Send
E 🕀 sys	Message Help									
■ 🗁 config	Add a new scheduled task on security.roles: sys.manage	an interval								^
C scheduler	parameters:									
stats	seconds - <uint32, optional,<="" td=""><td>{range:1 to 315</td><td>56926}> The numb</td><td>er of seconds be</td><td>etween executions, must provide one</td><td>of seconds, minu</td><td>tes or ho</td><td>urs</td><td></td><td>*</td></uint32,>	{range:1 to 315	56926}> The numb	er of seconds be	etween executions, must provide one	of seconds, minu	tes or ho	urs		*
tasks	Response Output									
users	Response Output									
avarehouseconnector										
4										
RSA NETWITNESS* PLATFORM	Í.	i .								11.5.0.0

Note: Standard time format used is hours. You can use seconds or minutes format in lieu of hours.

e. Then click Send.

Manage a Lockbox

You can change the lockbox password, as well as refresh the lockbox.

Lockbox Status

Note: RSA NetWitness Platform has added a Health & Wellness stat for Warehouse Connector to indicate the status of its Lockbox. Also, an out-of-the-box rule has been added so that a Health & Wellness alarm is raised when the Lockbox does not exist or cannot be opened.

To see the rule details, go to (Admin) > Health & Wellness > Policies > Warehouse Connector and select Warehouse Connector Monitoring Policy.

OSTS SERVICES EVENT	SOURCES	ENDPOIN	T SOURCES HEALTH & WELLNESS SYSTEM	SECUR	RITY	
Alarms Monitoring Polic	c <mark>ies</mark> Syster	n Stats Brow	ser Event Source Monitoring Settings			
Policies + ⊙ - ☑ ■ X						
C Log Collector	0	Enable	Name ^	Severity	Category	Statistic
Malware Analysis			Lockbox Access Failure	Criti	Lockbox	Lockbox Status
Orchestration Server	0		Warehouse Connector Service in Bad State	Criti	ProcessIn	Service State
Reporting Engine			Warehouse Connector Service Stopped	Criti	Processin	Service Status
	0		Warehouse Connector Stream Behind	High	Streams	Stream Behind
Respond Server	0		Warehouse Connector Stream Disk Utilization > 75%	High	Streams	Disk Usage (Pending Destination
Security Server	0		Warehouse Connector Stream in Bad State	Criti	Streams	Stream Status
Source Server	0		Warehouse Connector Stream Permanently Rejected Files > 3	High	Streams	Number of files in the permaner
Harehouse Connector	0		Warehouse Connector Stream Rejected Folder > 75% Full	High	Streams	Rejected folder usage in percent
🛑 Warehouse Connector Moni	tori	4				•

To change the Lockbox password:

- 1. Log on to NetWitness.
- 2. Go to **(Admin) > Services**.
- In the Services view, select a Warehouse Connector service, and select > View > Config.
 The Services Config view of Warehouse Connector is displayed.

RSA Investigate Respond Users H	RSA Investigate Respond Users Hosts Files Dashboard Reports 💍 🗘 🖃 % 🕐 admin v								
HOSTS SERVICES EVENT SOURCES ENDPOIN									
A Change Service Warehouse Connector Config									
Sources and Destinations Streams Lockbox Settings	urces and Destinations Streams Lockbox Settings General Appliance Service Configuration								
Source Configuration			Destination Configuration						
+ -			+ - 🗷						
Name	Address	Port	Name Name	Туре	Path				
logdecoder1 - Log Decoder	0101110-000	56004	NFS	nfs	/root/test/kaushal				
logdecoder2 - Log Decoder	01010000	56002	SFTP	sftp	/root/test				
					11.5.00				

4. Click the Lockbox Settings tab.

		admin 🗸
HOSTS SERVICES EVENT SOURCES ENDPOINT SOURCES HEALTH & WELLNESS SYSTEM SECURITY		
🙏 Change Service Warehouse Connector Config ©		
Sources and Destinations Streams Lockbox Settings General Appliance Service Configuration		
Create New Lockbox		
Set the lockbox password. The password should satisfy lockbox password strength.You will be required to enter this password to perform any lockbox management.		
Lockbox Password *******		
Confirm Lockbox Password *******		
Apply		
Change Lockbox Password		
Change the lockbox password. You will be required to enter current password and new password should satisfy lockbox password strength.		
Current Lockbox Password *******		
New Lockbox Password *******		
Confirm New Lockbox Password *******		
Apply		
Refresh Lockbox		
Reset the lockbox.You will be required to enter current lockbox password.		
Lockbox Password *******		
		11.5.0.0

- 5. In the Change Lockbox Password section, perform the following:
 - a. In the Current Lockbox Password field, enter the current lockbox password.
 - b. In the New Lockbox Password field, enter the new lockbox password.

Note: The lockbox password must be at least eight characters in length and it must contain at least three of the following groups: one uppercase character [A-Z], one lowercase character [a-z], one numeral [0-9], and one special character.

- c. In the Confirm New Lockbox Password field, enter the new lockbox password to confirm.
- d. Click Apply.

The Lockbox password is successfully changed.

To refresh the Lockbox:

- 1. Log on to NetWitness.
- 2. Go to X (Admin) > Services.
- 3. In the Services view, select the added Warehouse Connector service, and select > View > Config.

The Services Config view of Warehouse Connector is displayed.

RSA Investigate Respond Users H	NT SOURCES HEALTH &	wellness system	SECURITY		ÖД 🖬 🔏 곗 admir
		WELLNESS STOLEM	SECONITI		
🖁 Change Service Warehouse Connector Config					
Sources and Destinations Streams Lockbox Settings	General Appliance S	ervice Configuration			
Source Configuration			Destination Configura	tion	
F -			+ - 🗷		
Name	Address	Port	□ Name	Туре	Path
logdecoder1 - Log Decoder	01010000	56004	NFS	nfs	/root/test/kaushal
logdecoder2 - Log Decoder	11-1-12-28	56002	SFTP SFTP	sftp	/root/test

4. Click the Lockbox Settings tab.

RSA Investiga	te Respond Users Hosts Files Dashboard Reports	δĻ	2 %	?	admin 🗸
HOSTS SERVICES E					
🛔 Change Service Wa	rehouse Connector Config 🐵				
Sources and Destinations	Streams Lockbox Settings General Appliance Service Configuration				
Create New Lockbo>					
Set the lockbox password. The pass	word should satisfy lockbox password strength. You will be required to enter this password to perform any lockbox management.				
Lockbox Password	***				
Confirm Lockbox Password	****				
Apply					
Change Lockbox Pas	sword				
Change the lockbox password. You	will be required to enter current password and new password. The password should satisfy lockbox password strength.				
Current Lockbox Password	***				
New Lockbox Password	****				
Confirm New Lockbox Password	****				
Apply					
Refresh Lockbox					
Reset the lockbox.You will be requir	ed to enter current lockbox password.				
Lockbox Password	***				
Apply					
RSA NETWITNESS" PLATFOR	M				11.5.0.0

- 5. In the Refresh Lockbox section, enter the current lockbox password in the Lockbox Password field.
- 6. Click **Apply**. The Lockbox is reset.

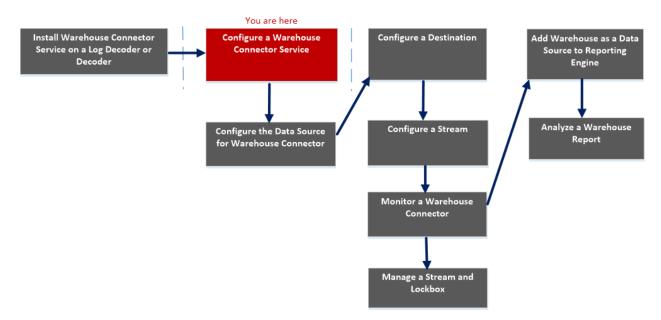
Warehouse Connector Configuration References

This section contains descriptions of the user interface as well as other reference information.

General Tab Settings

The General tab displays the general configuration settings for Warehouse Connector service.

Workflow



Role	I want to	Refer to
Administrator	Install Warehouse Connector Service on a Log Decoder or Decoder	Install Warehouse Connector Service on a Log Decoder or Decoder or Hybrid
Administrator	Configure a Warehouse Connector Service*	Configure a Warehouse Connector Service
Administrator	Configure the Data Source for Warehouse Connector	Configure the Data Source for Warehouse Connector
Administrator	Configure the Destination using NFS, SFTP, WebHDFS.	Configure the Destination Using NFS Configure the Destination Using SFTP Configure the Destination Using WebHDFS
Administrator	Configure a Stream	Configure a Stream
Administrator	Monitor a Warehouse Connector	Monitor a Warehouse Connector

Role	I want to	Refer to
Administrator	Add Warehouse as Data Source to Reporting Engine	For more information, see "Add Warehouse as a Data Source to Reporting Engine" in the <i>Reporting</i> <i>Engine Configuration Guide</i> .
Administrator	Analyze a Warehouse Report	For more information, see "Step 4. Analyze a Warehouse Report" in the <i>Warehouse Guide</i> .
Administrator	Manage a Stream and Lockbox	Manage a Stream

Related topics

• Configure a Warehouse Connector Service

Quick Look

The following figure shows the General tab on the Warehouse Connector Services Config view. The General tab displays the system configuration parameters for the Warehouse Connector service.

RSA Investigate Respond Users Hosts Files Dashboard Reports	Ö ậ 룬 % ⑦ admin∨
HOSTS SERVICES EVENT SOURCES ENDPOINT SOURCES HEALTH & WELLNESS SYSTEM	
A Change Service Warehouse Connector Config \odot	
Sources and Destinations Streams Lockbox Settings General Appliance Service Configuration	
System Configuration	
Name	Config Value
Compression	0
Port	50020
SSL FIPS Mode	
SSL Port	56020
Stat Update Interval	1000
Threads	20
A	pply
	11.5.0.0

When you add a Warehouse Connector service, default values are in effect. NetWitness designed the default values to accommodate most environments and recommends that you do not modify these values because it may adversely affect performance.

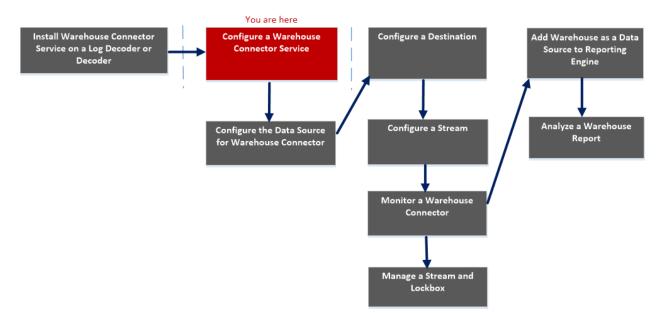
The following table describes the System Configuration parameters:

Name	Config Value
Compression	Determines the minimum amount of bytes before a message is compressed. If set to zero, messages are not compressed.
Port	Determines the port used by the service. Note: If you change the port number, ensure that you restart the service.
SSL	If enabled, all the data transferred in the network will be encrypted using SSL.
Stat Update Interval	Determines how often (in milliseconds) statistic nodes are updated in the system.
Threads	Determines the number of threads in the thread pool to handle incoming requests.

Appliance Service Configuration Tab Settings

The Appliance Service Configuration tab displays the appliance configuration settings for Warehouse Connector service. For more information, see "Appliance Service Configuration" in the *Hosts and Services Getting Started Guide*.

Workflow



Role	I want to	Refer to
Administrator	Install Warehouse Connector Service on a Log Decoder or Decoder	Install Warehouse Connector Service on a Log Decoder or Decoder or Hybrid
Administrator	Configure a Warehouse Connector Service*	Configure a Warehouse Connector Service
Administrator	Configure the Data Source for Warehouse Connector	Configure the Data Source for Warehouse Connector
Administrator	Configure the Destination using NFS, SFTP, WebHDFS.	Configure the Destination Using NFS Configure the Destination Using SFTP Configure the Destination Using WebHDFS
Administrator	Configure a Stream	Configure a Stream
Administrator	Monitor a Warehouse Connector	Monitor a Warehouse Connector

Role	I want to	Refer to
Administrator	Add Warehouse as Data Source to Reporting Engine	For more information, see "Add Warehouse as a Data Source to Reporting Engine" in the <i>Reporting</i> <i>Engine Configuration Guide</i> .
Administrator	Analyze a Warehouse Report	For more information, see "Step 4. Analyze a Warehouse Report" in the <i>Warehouse Guide</i> .
Administrator	Manage a Stream and Lockbox*	Manage a Stream

Related topics

Configure a Warehouse Connector Service

Quick Look

The following figure shows the different settings on the Appliance Service Configuration tab.

RSA Investigate Respond Users Hosts Files Dashboard Reports	Ö 🗘 ㄹ % ⑦ admin 🗸
HOSTS SERVICES EVENT SOURCES ENDPOINT SOURCES HEALTH & WELLNESS SYSTEM S	
👬 Change Service Warehouse Connector Config 🐵	
Sources and Destinations Streams Lockbox Settings General Appliance Service Configuration	
Name	Config Value
Compression	0
Port	50006
SSL FIPS Mode	
SSL Port	56006
Stat Update Interval	1000
Threads	20
A	ylqc
	11.5.0.0

When you add a Warehouse Connector service, default values are in effect. NetWitness designed the default values to accommodate most environments and recommends that you do not edit these values because it may adversely affect performance.

The following table describes the Appliance Service Configuration parameters:

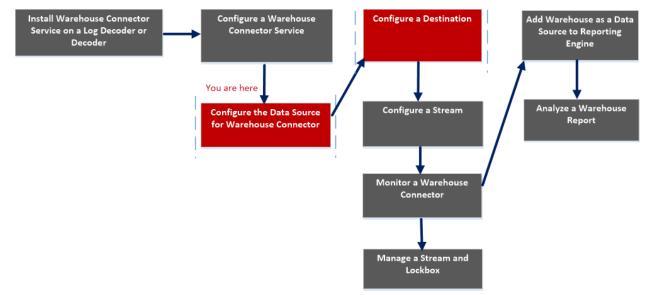
Name	Configuration Value
Compression	Determines the minimum amount of bytes before a message is compressed. If set to zero, messages are not compressed.

Name	Configuration Value
Port	Determines the port used by the service.
	Note: If you change the port number, ensure that you restart the service.
SSL FIPS Mode	If enabled, all the data transferred in the network will be encrypted using SSL FIPS.
SSL Port	Determines the SSL port used by the service.
Stat Update Interval	Determines how often (in milliseconds) statistic nodes are updated in the system.
Threads	Determines the number of threads in the thread pool to handle incoming requests.

Sources and Destinations Configuration

The Sources and Destinations tab for a Warehouse Connector in the Services Config view provides a way to manage basic service configuration and configure source and destination.

Workflow



Role	I want to	Refer to
Administrator	Install Warehouse Connector Service on a Log Decoder or Decoder	Install Warehouse Connector Service on a Log Decoder or Decoder or Hybrid
Administrator	Configure a Warehouse Connector Service	Configure a Warehouse Connector Service
Administrator	Configure the Data Source for Warehouse Connector*	Configure the Data Source for Warehouse Connector
Administrator	Configure the Destination using NFS, SFTP, WebHDFS*	Configure the Destination Using NFSConfigure the Destination Using SFTPConfigure the Destination Using WebHDFS
Administrator	Configure a Stream	Configure a Stream
Administrator	Monitor a Warehouse Connector	Monitor a Warehouse Connector

Role	I want to	Refer to
Administrator	Add Warehouse as Data Source to Reporting Engine	For more information, see "Add Warehouse as a Data Source to Reporting Engine" in the <i>Reporting</i> <i>Engine Configuration Guide</i> .
Administrator	Analyze a Warehouse Report	For more information, see "Step 4. Analyze a Warehouse Report" in the <i>Warehouse Guide</i> .
Administrator	Manage a Stream and Lockbox	Manage a Stream

Related topics

- <u>Configure the Data Source for Warehouse Connector</u>
- Configure the Destination

Quick Look

The following figure shows the Sources and Destinations tab on the Warehouse Connector Services Config view.

RSA Investigate Respond Users	Hosts Files Dashb	oard Reports			Ö 🚨 💥 🕐 admin
IOSTS SERVICES EVENT SOURCES ENDPOI	NT SOURCES HEALTH	WELLNESS SYSTEM S	ECURITY		
Change Service Warehouse Connector Conf	îg ⊙				
ources and Destinations Streams 1 Lockbox Setting	s General Appliance	Service Configuration		2	
ource Configuration			Destination Config	guration	
F -			+ - 🗷		
Name	Address	Port	Name	Туре	Path
] logdecoder1 - Log Decoder		56004	NFS	nfs	/root/test/kaushal
] logdecoder2 - Log Decoder	100000000000000000000000000000000000000	56002	SFTP	sftp	/root/test
					11.

The Sources and Destinations tab includes the following two sections:

Source Configuration
 Destination Configuration

Source Configuration

The Source Configuration section allows you to configure the data sources from which the Warehouse Connector service needs to collect data.

The following is an example of the Source Configuration section.

Sc	ource Configuration		
+	-		
	Name	Address	Port
	logdecoder1 - Log Decoder		56004
	logdecoder2 - Log Decoder		56002

The Source Configuration section allows you to perform the following:

Features	Description
+	Add the data source.
-	Delete the data source.

Destination Configuration

The Destination Configuration section allows you to configure the destination to which the Warehouse Connector service needs to write the collected data.

De	estination Configuration		
+	- 🛛		
	Name	Туре	Path
	NFS	nfs	/root/test/
	SFTP	sftp	/root/test

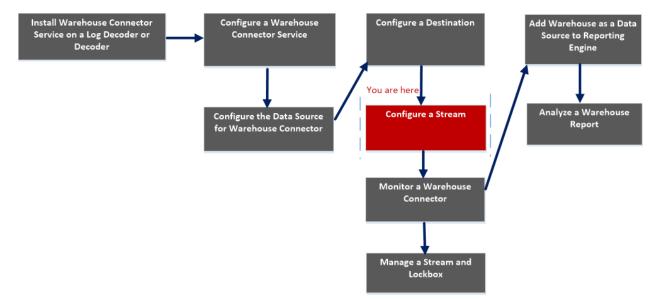
The Destination Configuration section allows you to perform the following:

Features	Description
+	Add the destination.
-	Delete the destination.
	Edit the destination.
	Note: You can only edit the SFTP destination type.

Add Stream Dialog

You can configure and add a stream to a Warehouse Connector in this dialog

Workflow



Role	I want to	Refer to
Administrator	Install Warehouse Connector Service on a Log Decoder or Decoder	Install Warehouse Connector Service on a Log Decoder or Decoder or Hybrid
Administrator	Configure a Warehouse Connector Service	Configure a Warehouse Connector Service
Administrator	Configure the Data Source for Warehouse Connector	Configure the Data Source for Warehouse Connector
Administrator	Configure the Destination using NFS, SFTP, WebHDFS.	Configure the Destination Using NFS Configure the Destination Using SFTP Configure the Destination Using WebHDFS
Administrator	Configure a Stream*	Configure a Stream
Administrator	Monitor a Warehouse Connector	Monitor a Warehouse Connector

Role	I want to	Refer to
Administrator	Add Warehouse as Data Source to Reporting Engine	For more information, see "Add Warehouse as a Data Source to Reporting Engine" in the <i>Reporting</i> <i>Engine Configuration Guide</i> .
Administrator	Analyze a Warehouse Report	For more information, see "Step 4. Analyze a Warehouse Report" in the <i>Warehouse Guide</i> .
Administrator	Manage a Stream and Lockbox	Manage a Stream

Related Topics

• Configure a Stream

Quick Look

The following figure is an example with the important features labeled.

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ame) 🗕 📝 丨 🚍 Liconses 🛛						
						💎 🕑 Filter		×
∃aii		Name	Licensed		Туре	Version	Actions	
	28	Event Stream Analysis	0	localhost.localdomain	Event Stream Analysis	4 (manual 7 1)	\$ ⊗	
		Event Stream Analytics Server	0	localhost.localdomain	Entity Behavior Analytics	1 a succession	\$ ⊗	
		Investigate Server	8	localhost.localdomain	Investigate Server	A comment	۞ ♦	
		Log Collector	8	localhost.localdomain	Log Collector	1.0000000000000000000000000000000000000	‡ •	
		Log Collector	0	localhost.localdomain	Log Collector	111111111111111111111111111111111111111	۞ ۞	
		Log Collector	0	localhost.localdomain	Log Collector	11000010400010400404	\$ ⊙	
		Log Decoder	0	localhost.localdomain	Log Decoder	1 () () () () () () () () () (\$ ⊙	
		O Log Decoder	0	localhost.localdomain	Log Decoder		♦ ⊙	
		Orchestration Server	0	localhost.localdomain	Orchestration Server	1.000	♦ 😒	
		Reporting Engine	0	localhost.localdomain	Reporting Engine	1.0000000000000000000000000000000000000	•	
		Response Server	0	localhost.localdomain	Response Server	1.0.00000	•	
		Security Server	0	localhost.localdomain	Security Server	1.000	\$ ⊙	
		Warehouse Connector	0	localhost.localdomain	Warehouse Connector		/iew >	
		Warehouse Connector	0	localhost.localdomain	Warehouse Connector		Edit	
	<<	(Page 1 of 2) > (C)	M					25 of 2
							Stop Restart	11.5.0

Add Stream			• e×
Stream Name * Select Destination * Cho Select Source *	ose Destination	n 🗸	
	Adduces	Dort	Session ID
Name	Address	Port	Session ID
		56004	Enter Session
		56002	Enter Session
		_	_
		Canc	el Save

Go to (Admin) > Services⁻
 In the services view, select a Warehouse Connector service and select ^{*} ⊙ >view>config

3 In the **Streams** tab, click <table-cell-rows> to view the add stream dialog.

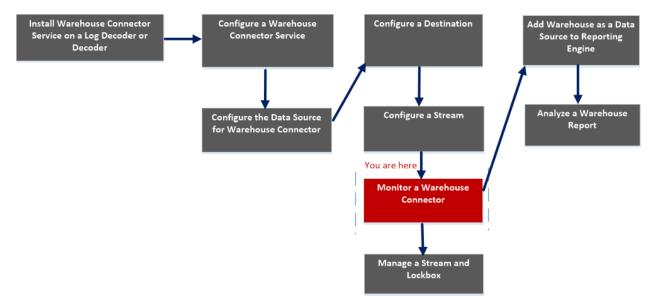
The following table describes the fields in the Add Stream dialog:

Parameter	Description
Stream Name	Type the name of the stream. The stream name may only contain alphanumeric characters and underscores. It cannot exceed 20 characters in length.
Select Destination	Select a destination from the drop-down list.
Select Source	Select a source from the grid at the bottom section of the dialog.
Name	The name of the source.
Address	The address of the source.
Port	The port of the source.
Session ID	The session ID of the source.

Streams Configuration

The Streams tab for a Warehouse Connector in the Services Config view provides a way to manage stream configuration.

Workflow



Role	I want to	Refer to
Administrator	Install Warehouse Connector Service on a Log Decoder or Decoder	Install Warehouse Connector Service on a Log Decoder or Decoder or Hybrid
Administrator	Configure a Warehouse Connector Service	Configure a Warehouse Connector Service
Administrator	Configure the Data Source for Warehouse Connector	Configure the Data Source for Warehouse Connector
Administrator	Configure the Destination using NFS, SFTP, WebHDFS.	Configure the Destination Using NFS Configure the Destination Using SFTP Configure the Destination Using WebHDFS
Administrator	Configure a Stream*	Configure a Stream
Administrator	Monitor a Warehouse Connector*	Monitor a Warehouse Connector

Role	I want to	Refer to
Administrator	Add Warehouse as Data Source to Reporting Engine	For more information, see "Add Warehouse as a Data Source to Reporting Engine" in the <i>Reporting</i> <i>Engine Configuration Guide</i> .
Administrator	Analyze a Warehouse Report	For more information, see "Step 4. Analyze a Warehouse Report" in the <i>Warehouse Guide</i> .
Administrator	Manage a Stream and Lockbox	Manage a Stream
*You can perform this task in the current view		

Related topics

Configure a Stream

Quick Look

The following figure shows the Streams tab on the Warehouse Connector Services Config view.

RSA Investigate Respond Users	Hosts Files Dashboard Reports	ΦΦ	🗊 % 🕐 admin 🗸
HOSTS SERVICES EVENT SOURCES EN	DPOINT SOURCES HEALTH & WELLNESS SYSTEM SECURITY		
🚠 Change Service Warehouse Connector	Config \odot		
Sources and Destinations Streams Lockbox Set	tings General Appliance Service Configuration		
🕂 — 🗹 Start Stop Reload Finalize			
Name	Sources	Destination	Status
To configure the alert mechanisms related to the Warehous	se Connector navigate here		
	ne connector nongote neres		11.5.0.0

The Streams tab allows you to perform the following:

Features	Description
+	Add a stream.
-	Delete a stream.
	Edit the stream.

Features	Description
Start	Start the stream.
Stop	Stop the stream.
Finalize	Finalize the stream.
Reload	Reload the stream. If you have added a new meta or if a new meta is added as part of content update to any of the sources, Log Decoder or Decoder, you need to reload the stream for the meta to be visible in the schema for the Reporting Engine. Reloading a stream does not have any impact on the data, but only the new meta list is fetched from the sources.

The following table describes the fields in the Streams tab:

Parameter	Description
Name	Name of the stream.
Sources	The sources associated with the stream.
Destination	The destinations associated with the stream.
Status	Status of the stream.

Stream Statistics

You can view the statistics of a configured stream. Click the \bigcirc icon next to the name of the stream.

RSA Investigate Respond Users	Hosts Files Dashboard Repo	orts	Ó 🗘 E	3 % ⑦ admin ✔
HOSTS SERVICES EVENT SOURCES ENDP	OINT SOURCES HEALTH & WELLNESS			
A Change Service Warehouse Connector Co	onfig ©			
Sources and Destinations Streams Lockbox Settin	ngs General Appliance Service Config	uration		
+ - 🗹 Start Stop Reload Finalize	Change Configuration			
☑ Name	Sources		Destination	Status
Stream Statistics Stream (Testing) Number of files in the permanent rejected folder Reported folder usage in percentage : 0 Section Rate : 7 Destination (Testing) Status : enline Source (10.31.125.246-50002) Status : ensuming Sessions Behind : 0 Last Session Read : 16698	er: 0			running

The following parameters are displayed in the Stream Statistics:

Section	Parameter	Description
Stream		

Section	Parameter	Description
	Number of files in the permanent rejected folder	Determines the number of files in the permanent rejected folder (named, permfail) in the Warehouse Connector. The permanent rejected folder contains the files that Warehouse Connector failed to write to the destination.
	Rejected folder usage in percentage	Determines the disk usage of the rejected folder.
	Session Rate	Determines the rate at which the session is processed by the Warehouse Connector for the source.
Destination		
	Status	Indicates the status of the destination.
Source		
	Status	Indicate the status of the source.
	Sessions Behind	Determines that number of sessions that needs to be processed by the Warehouse Connector.
	Last Session read	Determines the last session id processed by the Warehouse Connector.

Change Stream Configuration

You can change configuration of a stream in runtime. In the **Streams** tab, click **Change Configuration** to change the configuration of the selected stream.

Change Configuration :	×
Stream Configuration	
Name	Config Value 🗸
∃ Aggregation Configuration	
Aggregate max sessions	1000
Aggregation Interval	10
∃ Loader Settings	
Compress files on disk.	deflate
Export Rollup Interval	hour
Maximum Message Hold Count	100000
Maximum Message Hold Interval (Seconds)	60
Maximum Message Hold Size	512 MB
Page Size	200000
Remote Export Path	/
Session Meta Fields Exported	*
Session Remote Export	
∃ Stream Settings	
Auto Startup	
	Close Apply

You can change the following parameters of the Stream Configuration:

Note: If you change the value of any parameter in stream configuration, make sure that you restart the stream.

After upgrading, if the values of Maximum Message Hold Count, Maximum Message Hold Interval and Maximum Message Hold Size are 3000000, 60 and 128 respectively, ensure that you assign the following values to the streams:

- Maximum Message Hold Count 2400000
- Maximum Message Hold Interval 600
- Maximum Message Hold Size 512

You can assign these values by modifying the existing Stream configuration.

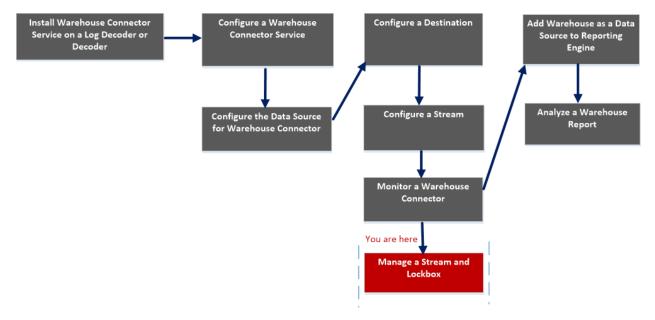
Parameter	Description		
Aggregation Configuration			
Aggregate max sessions	Determines the maximum number of sessions in a response for an aggregation request from the Warehouse Connector to the source .		
Aggregation Interval	Determine	s the time between the responses from the source.	
		Loader Settings	
Compress files on disk	SupportedDeflate generationOff	compress files on disk. values: - Provides smaller compressed files and good performance while ing reports. , the parameter is set to deflate .	
Export Rollup Interval	Determines the roll-up interval for export files and also the directory structure the Warehouse Connector writes to the destination. For example: If the parameter is set to:		
	Value	Directory Structure	
	hour	/rsasoc/v1/[logs sessions]/data/ {year}/{month}/{day}/{hour}	
	minute	/rsasoc/v1/[logs sessions]/data/ {year}/{month}/{day}/{hour}/ {minute}	
	day	/rsasoc/v1/[logs sessions]/data/ {year}/{month}/{day}	
		nge the value of the parameter, ensure that you restart the stream. nded value is hour .	
Maximum Message Hold Count	e ,		
Maximum Message Hold Interval (Seconds)	Determines the maximum time (in seconds) to hold the sessions in memory before processing.		
Maximum Message Hold Size	Determines the maximum size for the sessions to store in the memory before processing.		
Remote Export Path		Determines the remote local mount point for HDFS (nfs://) and the location to export the data.	

Parameter	Description	
Page Size	Determines the maximum pages.	
Stream Settings		
Auto Startup	Enable to automatically start the stream whenever the Warehouse connector process is restarted. By default, the parameter is set to off .	

Lockbox Settings

The Lockbox Settings tab for a Warehouse Connector in the Services Config view provide a way to manage the lockbox settings.

Workflow



Role	I want to	Refer to
Administrator	Install Warehouse Connector Service on a Log Decoder or Decoder	Install Warehouse Connector Service on a Log Decoder or Decoder or Hybrid
Administrator	Configure a Warehouse Connector Service*	Configure a Warehouse Connector Service
Administrator	Configure the Data Source for Warehouse Connector	Configure the Data Source for Warehouse Connector
Administrator	Configure the Destination using NFS, SFTP, WebHDFS.	Configure the Destination Using NFS Configure the Destination Using SFTP Configure the Destination Using WebHDFS
Administrator	Configure a Stream	Configure a Stream
Administrator	Monitor a Warehouse Connector	Monitor a Warehouse Connector

Role	I want to	Refer to
Administrator	Add Warehouse as Data Source to Reporting Engine	For more information, see "Add Warehouse as a Data Source to Reporting Engine" in the <i>Reporting</i> <i>Engine Configuration Guide</i> .
Administrator	Analyze a Warehouse Report	For more information, see "Step 4. Analyze a Warehouse Report" in the <i>Warehouse Guide</i> .
Administrator	Manage a Stream and Lockbox*	<u>Manage a Stream</u> Manage a Lockbox

Related topics

- <u>Configure a Warehouse Connector Service</u>
- Manage a Stream

Quick Look

The following figure shows the Lockbox settings tab on the Warehouse Connector Services Config view.

RSA Investigat	te Respond Users Hosts Files Dashboard Reports	Ú E	K	admin 🗸
HOSTS SERVICES EV	YENT SOURCES ENDPOINT SOURCES HEALTH & WELLNESS SYSTEM SECURITY			
🚠 Change Service 🕴 Wa	rehouse Connector Config 💿			
Sources and Destinations	Streams Lockbox Settings General Appliance Service Configuration			
Create New Lockbox				
Set the lockbox password. The passw	vord should satisfy lockbox password strength. You will be required to enter this password to perform any lockbox management.			
Lockbox Password	2422224A			
Confirm Lockbox Password	2422224A			
Apply				
Change Lockbox Pas	sword			
Change the lockbox password. You v	vill be required to enter current password and new password. The password should satisfy lockbox password strength.			
Current Lockbox Password	***			
New Lockbox Password	*******			
Confirm New Lockbox Password	2222222			
Apply				
Refresh Lockbox				
Reset the lockbox.You will be require	ed to enter current lockbox password.			
Lockbox Password	******			
Apply				
RSA NETWITNESS' PLATFOR	M.			11.5.0.0

The Lockbox Settings tab allows you to set, change, or refresh the lockbox password of the Warehouse Connector.