

Import Logger Event Data Into Recon

1.	Install VSQL Client Driver on Logger.....	2
2.	Archive Live Logger Data	3
3.	Execute the Construct Mounts Instructions Script on logger	4
4.	Create NFS share on logger and set the right permission.....	5
5.	Execute the Instructions in ArcSight Database	6
6.	Import Metadata for Logger Events	8
7.	Import Logger Events	10
8.	Troubleshooting Logger Migration.....	12
9.	Search Logger Events on Recon	15

1. Install VSQL Client Driver on Logger

Download the VSQL Client Tar package.

<https://www.vertica.com/download/vertica/client-drivers/>

Extract the tar package

```
tar xvfz vertica-client-[version] [OS].tar.gz -C /
```

Modify the profile

```
cd ~  
vi .bashrc
```

Include /opt/vertica/bin into the PATH environment variable

```
# User specific aliases and functions  
  
alias rm='rm -i'  
alias cp='cp -i'  
alias mv='mv -i'  
  
# Source global definitions  
if [ -f /etc/bashrc ]; then  
    . /etc/bashrc  
fi  
export PATH=/opt/vertica/bin:$PATH
```

Save the .bashrc file, reload the profile

```
source .bashrc
```

Verify VSQL is installed correct.

```
[root@logger ~]# vsql --version  
vsql version 23.04.0000, built for Linux64, contains support for command-line  
editing
```

2. Archive Live Logger Data

Configure event archives on logger.

Following screen shot show the archives from 2023-10-18 to 2023-11-2 for **Default Storage Group**. The archives are stored in **/opt/archive/default**

Event Archives											
<div>Add Remove Sanitize Load Unload Index Cancel Index Refresh</div>											
Name	Day	Month	Year	Storage Group	Status	Index Status	Sanitize Status	Mount	Mount Path	Archive Size	
Filter: All	Filter: All	Filter: All	Filter: All	Filter: All	Filter: All	Filter: All	Filter: All	Filter: All	Filter: All		
test [2023-11-02] [Default Storage Group]	2	11	2023	Default Storage Group	Archived	Indexed	None	Local	/opt/archive/default	1GB	
test [2023-11-01] [Default Storage Group]	1	11	2023	Default Storage Group	Archived	Indexed	None	Local	/opt/archive/default	1GB	
test [2023-10-31] [Default Storage Group]	31	10	2023	Default Storage Group	Archived	Indexed	None	Local	/opt/archive/default	1GB	
test [2023-10-30] [Default Storage Group]	30	10	2023	Default Storage Group	Archived	None	None	Local	/opt/archive/default	-	
test [2023-10-29] [Default Storage Group]	29	10	2023	Default Storage Group	Archived	None	None	Local	/opt/archive/default	-	
test [2023-10-28] [Default Storage Group]	28	10	2023	Default Storage Group	Archived	None	None	Local	/opt/archive/default	-	
test [2023-10-27] [Default Storage Group]	27	10	2023	Default Storage Group	Archived	None	None	Local	/opt/archive/default	-	
test [2023-10-26] [Default Storage Group]	26	10	2023	Default Storage Group	Archived	None	None	Local	/opt/archive/default	-	
test [2023-10-25] [Default Storage Group]	25	10	2023	Default Storage Group	Archived	Indexed	None	Local	/opt/archive/default	1GB	
test [2023-10-24] [Default Storage Group]	24	10	2023	Default Storage Group	Archived	None	None	Local	/opt/archive/default	-	
test [2023-10-23] [Default Storage Group]	23	10	2023	Default Storage Group	Archived	None	None	Local	/opt/archive/default	-	
test [2023-10-22] [Default Storage Group]	22	10	2023	Default Storage Group	Archived	None	None	Local	/opt/archive/default	-	
test [2023-10-21] [Default Storage Group]	21	10	2023	Default Storage Group	Archived	None	None	Local	/opt/archive/default	-	
test [2023-10-20] [Default Storage Group]	20	10	2023	Default Storage Group	Archived	None	None	Local	/opt/archive/default	-	
test [2023-10-19] [Default Storage Group]	19	10	2023	Default Storage Group	Archived	Indexed	None	Local	/opt/archive/default	1GB	
test [2023-10-18] [Default Storage Group]	18	10	2023	Default Storage Group	Archived	Indexed	None	Local	/opt/archive/default	1GB	

Note: You must make sure the archiving job is executed continuously every day during the whole time frame. If there is a break during the time frame, for example, archiving job is not run on Oct 17th . In this case, the logger data migration will NOT be successful.

3. Execute the Construct Mounts Instructions Script on logger

Copy the script `/opt/arcsight-db-tools/scripts/loggerToReconConstructMounts.sh` from Vertica host to logger host, then execute

```
./loggerToReconConstructMounts.sh $<INSTALL_LOGGER_PATH>
```

In following example, the logger software is installed on host `10.0.0.4` under `/opt/logger` folder.

```
[root@logger opt]# ./loggerToReconConstructMounts.sh /opt/logger
=====
**          Instructions to create the mount on Vertica side          **
=====

Getting the instructions for /opt/archive/default

Before mounting the archive on all nodes in the database, ensure that you configure the
following folder as an NFS server: [/opt/archive/default]

mkdir -p /opt/LOGGER_10004/opt/archive/default
mount -t nfs 10.0.0.4:/opt/archive/default /opt/LOGGER_10004/opt/archive/default

IMPORTANT: The dbuser must be able to access to the data. Please check, and update as needed,
the ownership of the archive directory.

setfacl -R -m u:DB_USER:rwX /opt/LOGGER_10004

NOTE: If it is a multi-node installation please run the following command on each Vertica
node.

/opt/vertica/bin/vsql -U DB_USER -w DB_PASSWORD -c "SELECT
default_secops_adm.AddLoggertoKnownHosts ('10.0.0.4','/home/dbadmin/known_loggers', true);"
```

Above script does NOT execute any command, it just generate the command need to be executed on vertica DB host and logger host.

Following command need to run from vertica host:

```
mkdir -p /opt/LOGGER_10004/opt/archive/default
mount -t nfs 10.0.0.4:/opt/archive/default /opt/LOGGER_10004/opt/archive/default
```

Following command need to run on logger host (Note: there is a critical error in the output of above script, this setfacl command MUST run on the logger host, and the folder should be the logger archiving folder (`/opt/archive/logger` in this example)

```
setfacl -R -m u:DB_USER:rwX /opt/archive/logger
```

4. Create NFS share on logger and set the right permission

On logger, install nfs package

```
yum install nfs-utils
```

Create /etc/exports file with following content (/opt/archive/default in the logger archive folder in this example)

```
/opt/archive/default *(rw,sync,no_all_squash,root_squash)
```

Export NFS share

```
exportfs -r
```

Check NFS share

```
[root@logger opt]# showmount -e
Export list for logger.arcsight.example.com:
/opt/archive/default *
```

Allow dbadmin user from vertica host to visit archive files (The user id of dbadmin user is 1999 in following example)

```
setfacl -R -m u:1999:rwX /opt/archive/logger
```

5. Execute the Instructions in ArcSight Database

Create logger migration schema in Vertica DB

```
[root@intelligence ~]# /opt/arcsight-db-tools/scripts/logger_migration_preconfig.sh
NOTICE 4185: Nothing was dropped
CREATE LIBRARY
CREATE FUNCTION
CREATE FUNCTION
CREATE FUNCTION
CREATE FUNCTION
CREATE FUNCTION
CREATE FUNCTION
GRANT PRIVILEGE
WARNING 6978: Table "logger_migration_data" will include privileges from schema
"default_secops_adm"
CREATE TABLE
NOTICE 8778: Duplicate column name; nothing was done
ALTER TABLE
NOTICE 8778: Duplicate column name; nothing was done
ALTER TABLE
NOTICE 8778: Duplicate column name; nothing was done
ALTER TABLE
NOTICE 8778: Duplicate column name; nothing was done
ALTER TABLE
NOTICE 8778: Duplicate column name; nothing was done
ALTER TABLE
NOTICE 8778: Duplicate column name; nothing was done
ALTER TABLE
NOTICE 8778: Duplicate column name; nothing was done
ALTER TABLE
NOTICE 8778: Duplicate column name; nothing was done
ALTER TABLE
WARNING 6978: Table "logger_connection" will include privileges from schema
"default_secops_adm"
CREATE TABLE
NOTICE 8778: Duplicate column name; nothing was done
ALTER TABLE
WARNING 6978: Table "logger_audit_log" will include privileges from schema
"default_secops_adm"
CREATE TABLE
WARNING 6978: Table "logger_udx_settings" will include privileges from schema
"default_secops_adm"
```

```
CREATE TABLE
NOTICE 8778: Duplicate column name; nothing was done
ALTER TABLE
WARNING 6978: Table "logger_deletion_events_data" will include privileges from schema
"default_secops_adm"
CREATE TABLE
WARNING 6978: Table "logger_metadata_migrations" will include privileges from schema
"default_secops_adm"
CREATE TABLE
COMMIT
```

Mount the NFS share exported by logger host, following command are generated in step 3, you can just copy it.

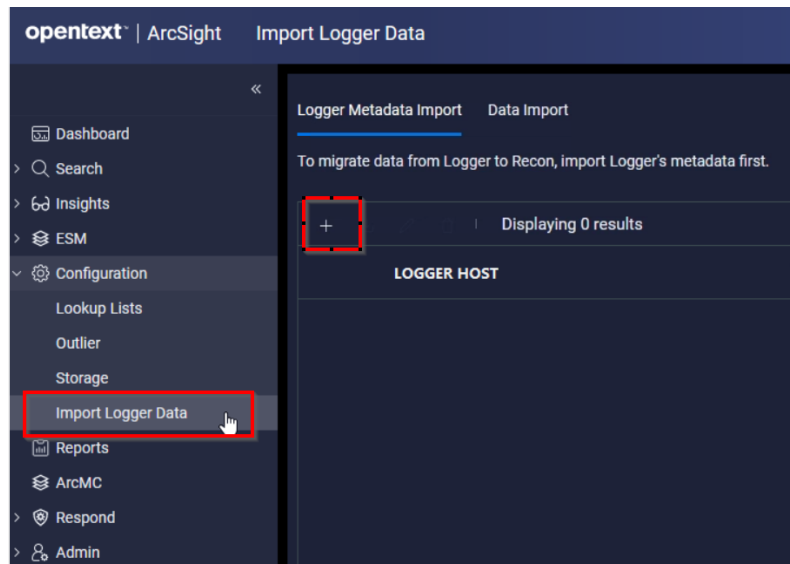
```
mkdir -p /opt/LOGGER_10004/opt/archive/default
mount -t nfs 10.0.0.4:/opt/archive/default /opt/LOGGER_10004/opt/archive/default
```

Verify if dbadmin user is able to read the archiving files

```
[root@intelligence ~]# su - dbadmin
[dbadmin@intelligence ~]$ cd /opt/LOGGER_10004/opt/archive/default/648518346341351424/
[dbadmin@intelligence 648518346341351424]$ cd 20231017
[dbadmin@intelligence 20231017]$ ls
ArcSight_Data_1_0504403158265495598.dat  ArcSight_Metadata_1_504403158265495598.csv.gz
ArcSight_Metadata_Archive_0504403158265495598.xml.gz
[dbadmin@intelligence 20231017]$ cat ArcSight_Data_1_0504403158265495598.dat
```

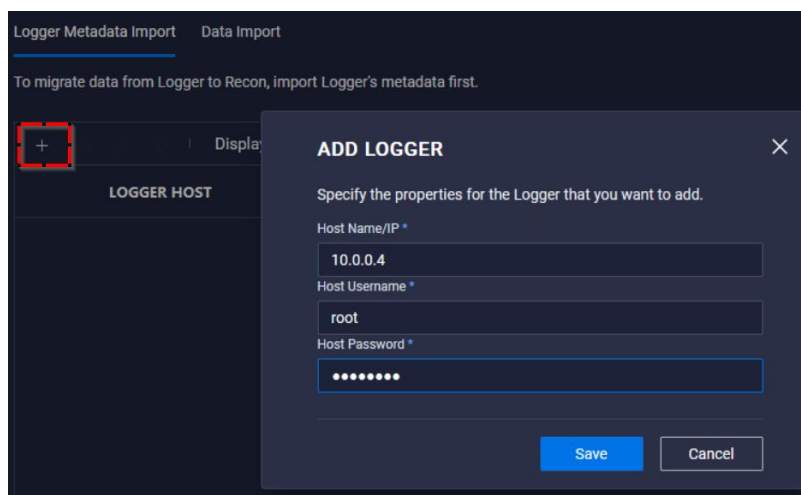
6. Import Metadata for Logger Events

Login to Recon UI, Choose Configuration => Import Logger Data



Under Logger Metadata Import, click “+” to add logger host

Note: You need to set the OS username/password for logger, NOT logger UI credential



After adding the logger host, select the entry, then click the import button

Logger Metadata Import

Data Import

To migrate data from Logger to Recon, import Logger's metadata first.

+

Import

Displaying 1 results

LOGGER HOST	LOGGER INSTALLATION PATH	IMPORT STATUS
<div><input checked="" type="checkbox"/></div> 10.0.0.4	/opt/logger/current/arcsight/logger	Not started

During metadata importing, the logger process will be stopped, click the YES button to automatically start logger after metadata import.

LOGGER METADATA IMPORT

×

NOTE: Before starting the import process, you must mount the appropriate archives on all database nodes.

During the import of metadata from Logger, the system will shut down the associated Logger processes. Do you want to restart the Logger processes after the import completes?

Yes

No

Cancel

Refresh the UI to check the metadata importing status

Logger Metadata Import

Data Import

To migrate data from Logger to Recon, import Logger's metadata first.

+

Displaying 1 results

LOGGER HOST	LOGGER INSTALLATION PATH	IMPORT STATUS
<div><input type="checkbox"/></div> 10.0.0.4	/opt/logger/current/arcsight/logger	Done

7. Import Logger Events

Start the Logger Data Import



Click the calendar icon to set the start date and end date, set the Global ID for all imported logger events

The 'IMPORT DATA FROM LOGGER' dialog box is shown. It contains the following fields and controls:

- Start Date (UTC):** A text field with the value '10/17/23 00:00:00' and a calendar icon to its right.
- End Date (UTC):** A text field with the value '10/18/23 23:59:59' and a calendar icon to its right.
- Global ID generator *:** A text field with the value '8888'.
- Select the Loggers for data import:** A section with a table header 'LOGGER HOST' and a single row with a checked checkbox and the value '10.0.0.4'.
- Buttons:** 'Import' and 'Cancel' buttons at the bottom right.

Import status begin with "Initialize" then "Complete". If the status is not complete, check the logs for troubleleshooting.

Logger Metadata Import

Data Import

+		Displaying 1 results		🔍 Search	
	LOGGER HOST	DATA START DATE (UTC)	DATA END DATE (UTC)	IMPORT DATE ↓	IMPORT STATUS
<input type="checkbox"/>	10.0.0.4	10/17/23 00:00:00	10/18/23 23:59:59	11/08/23 06:20:01	Complete

8. Troubleshooting Logger Migration

Check the logger data migration logs on Vertica host

[illegible]

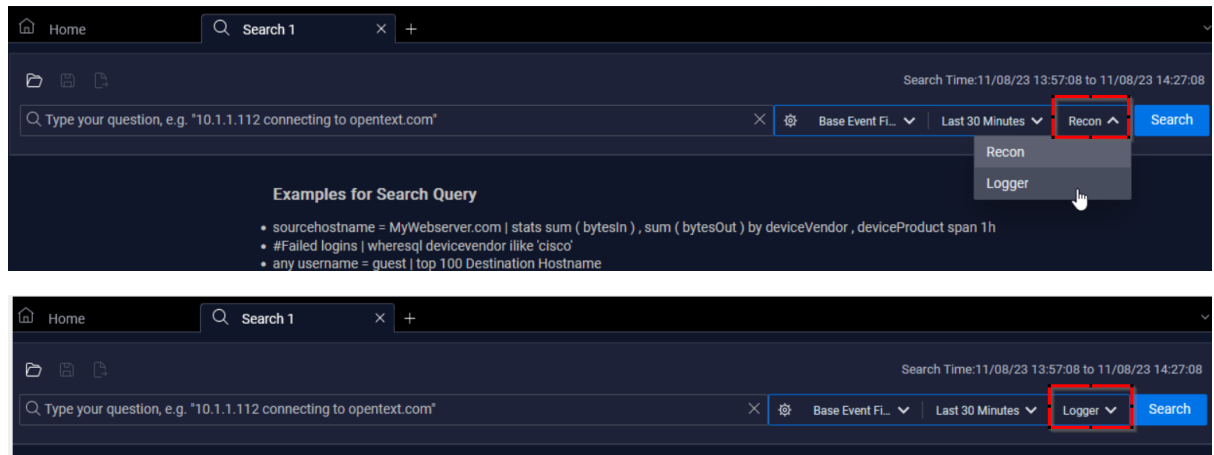
[illegible]

[illegible]

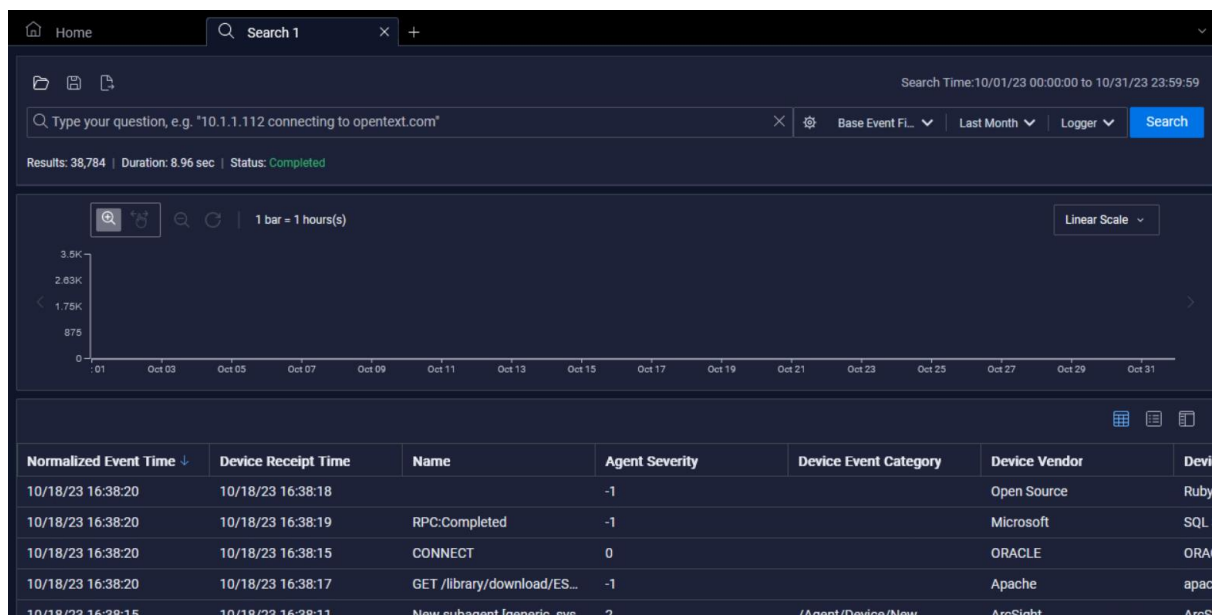
9. Search Logger Events on Recon

Once logger data import complete, you can search the logger events in Recon UI.

Click the “Recon” button next to “Search” button, switch to “Logger”



Following is the search result with empty search condition (means all events)



Notice the time series bar chart is not updated for logger data search (at least in ArcSight 2023.3 version)

