



OneCollect 1.2.1

Installation and Setup Guide

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Overview of OneCollect

OneCollect is a data collection tool. In addition to collecting data from storage area network (SAN), it collects data from network-attached storage (NAS) environments. The diagnostic content related to your environment can be either sent to NetApp for further analysis or analyzed on premises.

You can use OneCollect to collect data from storage systems, hosts, and switches. You can also extend the profiles available in the OneCollect tool to collect data from new types of systems. You can send the collected data back to NetApp for better support and assessment of operations, such as nondisruptive upgrades and data migration. OneCollect supports data collection through multiple data collection protocols. OneCollect posts the data that is collected to AutoSupport.

For more information about Solution-based and Device-based collection types, see [Supported device types and protocols for data collection](#), on page 5

Solution-based collection profile and device-based collection profile are two types of data collection profiles. Solution-based collection profile is a predefined environment. Device-based collection profile allows the user to create their own environment.

OneCollect compiles data about all the host operating systems, switches, storage arrays and other devices, which comprise most systems found in a typical enterprise ecosystem. Typical systems include Windows, Linux, VMware, FreeBSD, Solaris, AIX, HP-UX, Cisco IOS/NXOS/SANOS/UCS, Brocade, NetApp ONTAP, E-Series, and others. You can view the raw data from each collection. OneCollect uses native administrative methods, including SSH, HTTPS, and WMI protocols to communicate with systems and devices

To perform data collection against remote hosts, it is necessary that you provide administrative credentials. If you decide to store credentials, OneCollect provides password-protected encryption (pass phrase) to keep your credentials confidential. The credentials are stored in a database and encrypted using Advanced Encryption Standard (AES).

As you start using OneCollect, it is important that you understand some of the basic terms that you can expect to see throughout the OneCollect user interface.

Persona	Description
General	Collects basic commands for the target device
Diagnostic	Collects additional diagnostic commands and logs from the device other than the ones that run in General mode
SnapDrive	Collects SnapDrive specific diagnostic logs
SnapManager	Collects SnapManager specific logs
SnapManager for Oracle (SMO)	Collects SnapManager for Oracle specific logs
SnapManager for SAP (SMSAP)	Collects SnapManager for SAP specific logs
Orchestrator	Runs commands or collects logs related to VMware orchestrator

Note: For generating report or parsing in the Unified Parser, NetApp recommends using Diagnostic persona in OneCollect to collect all the required commands and logs.

Installing and setting up OneCollect

Before you can start collecting data using OneCollect, you must download and install OneCollect. After installing, you can add a plug-in to extend the data collection capabilities of the tool.

System requirements for OneCollect

You must ensure that you have the required host system configuration, operating system, and browser to run the OneCollect tool.

OneCollect can run on the following operating systems:

- Windows 7 (64-bit)
- Windows 8 (64-bit)
- Windows 10 (64-bit)
- Windows 2008 R2 Server (64-bit)
- Windows 2012 R2 Server (64-bit)
- Mac OS X 10.10 and later (64-bit)
- Red Hat Enterprise Linux (RHEL) 6.3 and later (64-bit)
- UBUNTU 7.0 and later (64-bit)

OneCollect supports the following browsers:

- Mozilla FireFox 35 and later
- Google Chrome 43 and later
- Apple Safari 9.1 and later
- Microsoft Edge (64-bit)

Supported device types and protocols for data collection

OneCollect provides two profiles that help you in collecting data from devices and solutions. You should learn more about these profiles to help you decide which one to use.

Each profile contains the credentials for the database associated with the profile. The credentials enable OneCollect to connect to and work with the database. The stored credentials include the user name and password for accessing the host, the repository, the database, and the required information.

Device-based collection types

Type	Sub-type	Supported persona	Supported protocol
Hybrid switch	Cisco nexus 5000/6000/9000 switch	Diagnostic and General	SSH
Hybrid switch	Cisco nexus 7000 switch	Diagnostic and General	SSH

Ethernet switch	Cisco switch	Diagnostic and General	SSH
Ethernet switch	NetApp switch	Diagnostic and General	Shell and SSH
Ethernet switch	Brocade switch	Diagnostic and General	SSH
FC (Fibre Channel) switch	Cisco switch	Diagnostic and General	SSH
FC switch	Brocade switch	Diagnostic	SSH
FC switch	QLogic switch	Diagnostic	SSH
FC switch	McData switch	Diagnostic	SSH
FC switch	McData i10k switch	Diagnostic	SSH
Host	Cisco UCS	General	UCSM XML API
Host	vCenter Server	General and Diagnostic	vCenter Web API
Host	Linux (RedHat Enterprise and SuSe)	General, Diagnostic, SnapDrive, SMO, SMSAP, and Orchestrator	SSH
Host	Solaris	General, Diagnostic, SMO, SnapDrive, and SMSAP	SSH
Host	HPUX	General, Diagnostic, SMO, SnapDrive, and SMSAP	SSH
Host	PowerVM	General	SSH
Host	ESXi	General and Diagnostic	SSH
Host	Windows	Diagnostic, DMR, and SnapManager	WMI
Host	AIX	General, Diagnostic, SMO, SnapDrive, and SMSAP	SSH
Host	KVM	General	SSH
Host	Oracle VM Manager	General and Diagnostic	SSH
Host	Citrix XenServer	General and Diagnostic	SSH
Host	Oracle VM Server	General and Diagnostic	SSH
Storage Controller	Data ONTAP 7-Mode	General and Diagnostic	Ontapi, HTTP(s), and SSH
Storage Controller	ONTAP	General, Dblade, and Diagnostic	Ontapi, HTTP(s), and SSH

Storage Controller	SolidFire	General	SolidFire Element OS API
Storage Controller	E-Series-SMcli	General	SMcli
Storage Controller	E-Series-WebServices Proxy	General	E-Series WebServices API
Storage Controller	Service Processor-ONTAP	Diagnostic	SSH
Storage Controller	Service Processor-7-Mode	Diagnostic	SSH
Other Storage Controller	Isilon Controller	General	SSH
SnapCenter	SnapCenter API	General	SnapCenter API

Solution-based collection types

Profile	Sub-profile	Corresponding device	Supported protocol
ONTAP	Network	- Cluster Node - Cluster Switch - Management Switch	- HTTPS and SSH - SSH - SSH
FlexPod	FlexPod-ONTAP	- Cisco UCS Cluster - Cluster Node - Cluster Switch - Nexus Switch - vCenter Server (vCenter)	- UCSM XML API - HTTPS and SSH - SSH - SSH - HTTP API
FlexPod	FlexPod-7-Mode	- Cisco UCS Cluster - Storage Controller - Nexus Switch	- UCSM XML API - HTTPS and SSH - SSH
FlexPod	FlexPod-SolidFire	- Cisco UCS Cluster - SolidFire Cluster - Nexus switch	- UCSM XML API - SolidFire Element OS API - SSH
ONTAP 7 Mode	Network	Storage Controller	- HTTPS - SSH

NetApp-HCI	Network	• ONTAP Select • SolidFire cluster • vCenter Server	• SSH and HTTP(s) • SolidFire API • vCenter API
MetroCluster	All MetroCluster configurations	• Cluster Node/ Simulation Node • Fabric switch • ATTO bridges	• SSH, HTTP(s), and Telnet • SSH • Telnet
FlexArray	• Direct Attached • Fabric Attached	• Cluster Node • Back-end FC switch (Cisco and Brocade)	• HTTP(s) and SSH • SSH and Telnet
E-Series	• Host • SMcli • NetApp SANtricity Web Services Proxy	• E-Series Linux Host • E-Series SMcli • E-Series Web Services Proxy	• SSH • SMcli • Web Services API

Installing OneCollect on Windows

You can install OneCollect either on your system or you can host it in a central server that can be accessed by multiple users.

Before you begin

- You must ensure that you have the required host system configuration, operating system, and browser to run the OneCollect tool.
System requirements for OneCollect on page 5

- You must have downloaded the OneCollect executable binary for your platform.
<http://mysupport.netapp.com/tools/info/ECMLP26713811.html?productID=62128>

Steps

1. Install the tool by completing the steps in the installation wizard.

The default installation folder for OneCollect on the Windows operating system is as follows:

Operating system	Default installation folder
Windows 64-bit	C:\Program Files\NetApp\OneCollect

You can change the default installation path to either a folder or drive of your choice.

2. Launch OneCollect from the URL: <http://localhost:8044/OC/#/>

Note: To configure the application to run on a different port, modify PORT value in the CONFIG file located in the <user_home_directory>\NetApp\OneCollect\Config and restart the application (for example, PORT = 8040). To host the OneCollect server centrally to be

accessed from remote hosts, you can edit the config file and append the IP address to bind prefix to port (for example: `PORT = 0.0.0.0:8044` will make it open to all hosts on all IPs. Alternatively, `PORT = <dedicated_IP>:8044` will make it available on the specific IP configured on host).

After you finish

If you want to run OneCollect automatically during system startup, perform the following steps:

1. Navigate to `<Install_directory>\NetApp\OneCollect\>`, right-click 'onecollect.exe' and select copy.
2. Find the **Startup** folder in **All Programs** and right-click it.
3. Click **Open**, and it opens up in the Windows Explorer.
4. Right-click anywhere inside that window and click the shortcut.
OneCollect shortcut should pop up in the folder, and the next time you log into Windows, OneCollect automatically starts up.

Installing OneCollect on Mac OS X

You can install OneCollect on your Mac OS X system.

Before you begin

Your host system must either run a version of Mac OS X 10.10.x or Mac OS X 10.11.x on your system.

Steps

1. Browse to the directory where you have downloaded the tar.gz installer.
2. Extract it by running `tar -xzf onecollect1.2_mac64.tar.gz`.
Note: If you are downloading OneCollect using the Chrome browser, it automatically extracts in to a .tar file. In this case, run `tar -xf onecollect 1.2_mac64.tar.gz`.
3. Change directory (cd) to the extracted folder.
4. Type `./onecollect`, if you have admin privileges or `sudo ./onecollect`. If you do not have admin privileges, then press Enter.

Use 'nohup ./onecollect &' to run process in the background. OneCollect will start running on port 8044. Ensure that the port is free before running OneCollect. Database will be saved in your home directory under `NetApp/onecollect/Db` folder.

Note: To configure the application to run on a different port, modify PORT value in the CONFIG file located in the `<user_home_directory>/NetApp/OneCollect/Config` and restart the application (for example, `PORT = 8040`). To host the OneCollect server centrally to be accessed from remote hosts, you can edit the config file and append the IP address to bind prefix to port (for example: `PORT = 0.0.0.0:8044` will make it open to all hosts on all IPs. Alternatively, `PORT = <dedicated_IP>:8044` will make it available on the specific IP configured on host).

After you finish

If you want to run OneCollect automatically during system startup, perform the following steps:

1. Choose **Apple** menu > **System Preferences** and click **Users & Groups**.

2. Select the user and click **Login Items**.
3. Click the **Add** button '+' under the list on the right, select 'onecollect' from <install_dir>/onecollect.
4. Click **Add**.

Installing OneCollect on Linux

You can install OneCollect on your Linux system through the command-line interface. You must perform this task if you are installing OneCollect for the first time.

Before you begin

- Your Linux host system must either run a version of RHEL (later than 6.4) or an Ubuntu (later than 12.0).
- You must have downloaded the OneCollect executable binary for your platform.
- You must have the necessary privileges to install the application.

Steps

1. Browse to the directory where you have downloaded the tar.gz installer.
2. Extract it using tar command: `tar -xzf onecollect1.2_linux64.tar.gz`.
Note: If you are downloading OneCollect using the Chrome browser, it automatically extracts in to a .tar file. In this case, run `tar -xf onecollect 1.2_linux64.tar.gz`.
3. Change directory (cd) to the extracted folder.
4. Type `./onecollect` if you have admin privileges or `sudo ./onecollect` if you do not have admin privileges, then press Enter.

Use "`nohup ./onecollect &`" to run process in the background. OneCollect will start running on port 8044. Ensure that the port is free before running OneCollect. Database will be saved in your home directory under `NetApp/onecollect/Db` folder.

Note: To configure the application to run on a different port, see [Installing OneCollect on Mac OS X](#) on page 9.

If you are not installing the application as root, use `sudo` while running the commands mentioned in the preceding steps.

After you finish

If you want to run OneCollect automatically during system startup, perform the following steps:

1. Edit the rc.local file (`vi /etc/rc.local`).
2. Add a line at the end of file to start the OneCollect process (`nohup /path_to_onecollect/onecollect &`).
3. Modify the permission for rc.local (`chmod +x /etc/rc/local`)
 The OneCollect process will start up automatically in the next reboot.

Editing data collection preferences

You can edit user settings—such as AutoSupport, collection, encryption, and Email notification.

Before you begin

The following information must be available:

- Email address from which the alert notification is sent.
- Host name, default port, user name, and password to configure the SMTP server.

About this task

When you modify the settings, the changes are applied immediately.

Steps

1. Click **Settings** on the upper-right corner.
2. In the **Basic Settings** dialog box, modify the appropriate settings.

If you want to...	Then...
• Enable OneCollect AutoSupport (recommended) — AutoSupport Settings • Configure Proxy	a. Select the Enable OneCollect AutoSupport (recommended) check box. b. Select the Configure Proxy check box to access the Internet (for AutoSupport posting).
Set up email notification — Email Notifications	You can configure SMTP to enable email notification for completed jobs. Optionally, you can enable email notification for scheduled jobs. The email will contain details about the devices that are part of job, job status, and parameters. a. Select the Enable Notifications for Scheduled Jobs check box, if you want to receive notifications for scheduled jobs. b. Select the Enable Notifications for Unscheduled Jobs check box, if you want to receive notifications for unscheduled jobs.
Enable or disable Telnet — Collection Settings	You can either enable or disable Telnet across all data collection (to avoid flags/alerts in a secure environment).
Set up encryption option — Encryption Settings	You can set one-time pass phrase to encrypt saved credentials for the device.

3. Click **Save** to save the settings.

Upgrading OneCollect

You can upgrade to a different version of OneCollect or reinstall the same version on either Windows, Mac, or Linux system(s). You can use one of the two options for upgrading OneCollect.

About this task

When you upgrade OneCollect and install it on your system, you will get two options:

Steps

1. Based on your requirement, select one of the options on your Windows system.

If you want to...	Then...
Perform a clean install	Click Yes for clean installation. The installer will delete the database and perform a clean installation.
Perform an upgrade	Click No to upgrade. The installer will retain the database files, which in turn retains the user preferences.

2. Select one of the options to upgrade OneCollect on either Mac or Linux system.

If you want to...	Then...
Perform a clean install	a. You must delete the database and Config file by running <code>rm -rf ~\NetApp\OneCollect</code>. b. Delete the older install directory. c. Install the new version by running <code>./onecollect</code> from the extracted installer package under <code><download path>\NetApp\OneCollect></code>.
Perform an upgrade	a. Delete the older install directory. b. Install the new version by running <code>./onecollect</code> from the extracted installer package under <code><download path>\NetApp\OneCollect></code>.

Collecting and uploading data from devices using OneCollect

The OneCollect tool enables you to collect diagnostic, SAN, NAS, and performance data from hosts, switches, and storage systems. OneCollect provides additional content, which can be sent back to NetApp or analyzed on premises to understand customers' environments. You can use three different profiles to collect data. In addition, you can schedule a data collection job, edit the saved job, view the collected data, and upload the collected data to AutoSupport.

Collecting data using OneCollect

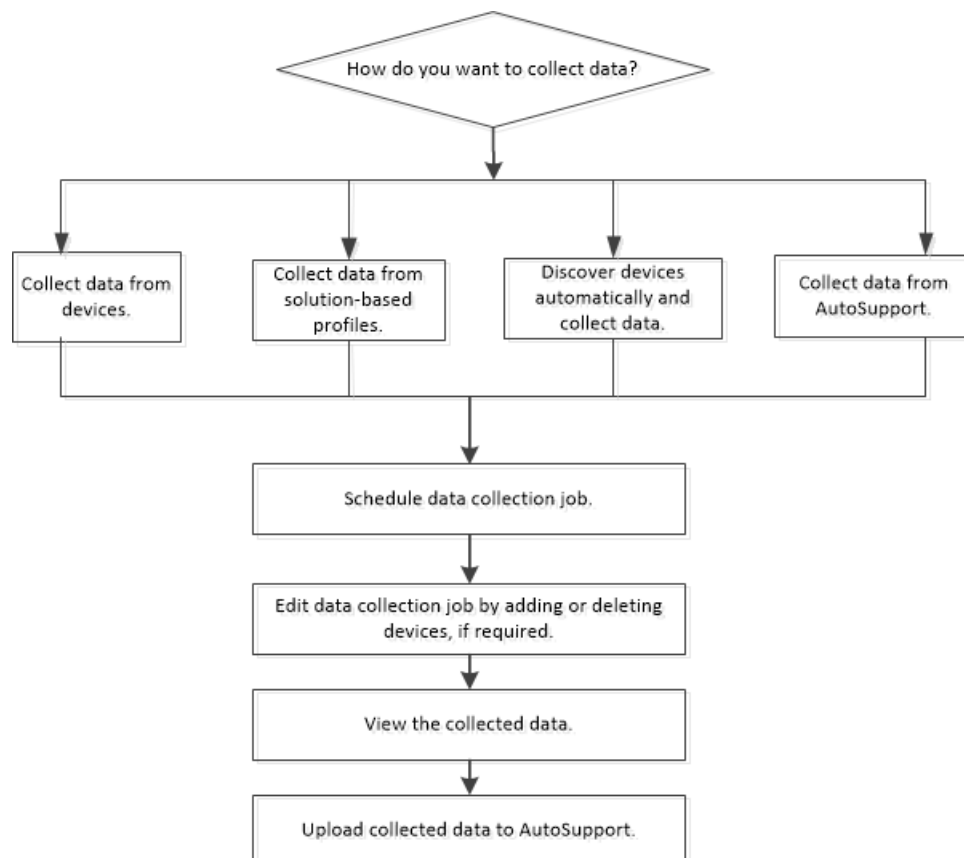
OneCollect enables you to collect data from different types of devices and solutions.

About this task

Using OneCollect, you can collect data by configuring a new collection profile:

- **Device Based** profile: This helps you collect data from single or multiple homogenous/heterogeneous set of devices that could be storage controllers, switches, or hosts. You need to enter the credentials of the device or component for collecting data.
- **Solution Based** profile: This helps you collect data from a set of preconfigured solution stacks.

Note: You can collect data using any of these preceding profiles, but if the size of the collected data exceeds 50MB, then the data cannot be uploaded to AutoSupport.



- **ASUP Based** profile: This helps sending the collected configuration data back to NetApp through its own AutoSupport. This information is used by NetApp Support and partners to improve problem diagnostics.
- **Discover IP/IP Range** profile: This helps you discover devices automatically using an IP, IP range, or subnet.
- **Import Devices** profile: This helps you to load the file that have the device information. After you import, Config Advisor displays the IPs that were identified from the imported data.
- **Import Collected Data Files** profile: This helps you to load the data collected from another system using either OneCollect or Config Advisor and import the collected data files for analysis.

Collecting data using the device-based collection method

You can collect data from storage controllers, hypervisors, hosts, and switches (FC and Ethernet switches). You can also collect data either from one device or multiple homogeneous and heterogeneous devices.

Steps

1. Click **Data Collection Jobs** tab.

If you want to...	Then...
Manually enter device details	Add the components, choose the device type and subtype, and then choose its relevant credentials. Note: SnapCenter plug-in is added in OneCollect to gather the Job logs from a SnapCenter server. You can either enter a single Job ID, a range, or a comma-separated list of Job ID values. OneCollect will save the collected log files in the Job directory.
Automatically load device credentials from a file	Select the collection type Import Devices and browse a file that has device details in a predefined format (Import_Credentials.csv). This CSV file is available in the OneCollect install directory.

For optimal performance, NetApp recommends adding a maximum of 25 devices.

2. By default, the **Device-Based** collection type is loaded.
3. By default, one row relevant to one device is loaded. If you want to add more devices, click the **Clone** button under the **Actions** column.
4. OneCollect validates the credentials of device(s) in two ways:
 - a. **Auto validation for one device:** Enter the host name, username, and password and move to the next row, the validation of the previous device starts automatically.
 - b. **Manual validation for all the devices:** Enter the host name, username, and password and click the **Validate** button.
5. By default, all the commands are selected for the device. If you need to modify the commands, click the **Commands** icon under **Actions** column.
6. Click the **Collect** button to proceed with data collection.

Collecting data using the solution-based collection method

Solution-based profile is a predefined profile. By using this profile, you can configure data collection for solutions, such as E-Series, FlexPod, ONTAP, Data ONTAP 7-Mode, and other solutions.

About this task

To perform a minimal data collection, you should enter the credentials for switch, node, cluster, and server.

Steps

1. Click the **Data Collection Jobs** tab.
2. Choose **Solution Based** option from the **Collection Type** drop-down list.
3. From the **Profile** drop-down list, select the required profile, for example, **ONTAP**.
4. Select **Network** from the **Sub Profile** drop-down list.
5. From the **Persona** drop-down list, select **General**.
For more information about **Personas**, see [Overview of OneCollect](#) on page 4.
6. Select the appropriate cluster switch model and management switch option.
7. By default, one row relevant to one solution is loaded. If you want to add more solutions, click the **Clone** icon under the **Actions** column.
8. OneCollect validates the credentials of solution(s) in two ways:
 - a. **Auto validation for one solution:** Enter the host name, username, and password and move to the next row, the validation of the previous solution starts automatically.
 - b. **Manual validation for all the solution:** Enter the host name, username, and password and click the **Validate** button.
9. By default, all the commands are selected for the solution. If you need to modify the commands, click the **Commands** icon under the **Actions** column.
10. Click the **Collect** button to proceed with data collection.

Collecting data using Serial port

You can use the Serial port if you do not have access to the customer's network. Direct access to the controller firmware is gained through the serial port. It appears in the Solution-based profile.

Steps

1. Connect Serial ports from ONTAP system (optionally switches) to the laptop on which OneCollect is installed.
2. Click **New Data Collection**.
3. Select the **Solution-based** profile.
4. From the **Profile** drop-down list, select the required profile, for example, **ONTAP**.
5. From the **Persona** drop-down list, select any one persona from the drop-down list.
For more information about **Personas**, see [Overview of OneCollect](#) on page 4.

6. From the **Sub profile** drop-down list, select **Serial**.
7. Enter credentials for the systems.
8. To validate, click **Next**.
9. Click **Next** to view the summary of devices from which the data will be collected.

Collecting data using AutoSupport method

NetApp technical support can view the data collected from the customer environment for analysis using AutoSupport.

About this task

You can select one of the two options to collect data.

Note: Parsing will not work on the data collected using AutoSupport profile.

Steps

1. Click **Data Collection Jobs** tab.
2. From the **Collection Type** drop-down list, select **ASUP Based** profile.
3. Select any one of the two options to collect data.

If you want to...	Then...
Collecting data using AutoSupport (by ASUP ID)	a. In the New Data Collection page, you can either add a file (.csv or .txt format) containing multiple AutoSupport Ids. Multiple AutoSupport IDs are displayed in the ASUP ID column along with their connection statuses. b. Alternatively, you can add an AutoSupport id using one of the following methods: i. Select the date from the Date Range. ii. Click Add File to add the file with ASUP ids. iii. Click Add ID to enter the Id in the ASUP ID field. iv. Enter serial number of the controller in the Search By Serial No. field, and click Search. v. Enter the hostname of the controller in the Search By Host name. vi. Select ASUP ID. vii. Enter the Job ID to load the IDs using OneCollect Job_Id from ASUP. c. Select the Pull data for analysis check box to collect only those sections that are required for analysis. Note: If unchecked, it will pull all the sections from AutoSupport. d. Select Fetch all nodes of the cluster check box to stitch together entire cluster (all nodes) based on the ASUP_ID or Serial_no or host name. You can also load old analysis, rerun analysis, and obtain the latest AutoSupport for cluster and run analysis.

If you want to...	Then...
Collecting data using AutoSupport (by ASUP File)	- In the Data Collection Jobs tab, select the ASUP Based option from the Collection Type drop-down list. - Click Browse to select an AutoSupport file, for example, ONTAP AutoSupport file. - You can select the Pull data for analysis check box to collect only the data required for analysis. Note: AutoSupport files in the .tgz and .txt formats are supported. - You can view the AutoSupport profile in the Profile drop-down list. - Click Collect Now to proceed with data collection. - View the icons under Action column to perform different tasks, such as viewing the collected data, viewing and analyzing the data in the Command Viewer, or deleting the job. - Click the file under the Job Name column to view the recent jobs and Command Viewer and to export the report in three different formats: PDF, Word, and Excel.

Discovering devices automatically and collecting data

You can automatically discover devices in an IP, IP range, or subnet by using OneCollect. OneCollect uses Simple Network Management Protocol (SNMP) v2 for automatic discovery. If the discovery is successful, OneCollect also identifies the device type and its operating system.

About this task

You can collect data by using three methods:

Step

1. Click **Discover / Import**.

If you want to...	Then...
Discover IP, IP range, and subnet automatically	- Enter the IP, IP Range , or subnet in the field. For example, 10.238.192.90-100; subnet 10.238.190.0/24. - Click Discover. All the discovered devices for which SNMP was successful, device type and subtype get loaded. You can select the check boxes to add devices for collecting and saving data. If SNMP has failed, you can manually map the device type and subtype if you recognize the system. - Select the devices that you want for data collection. - Enter the credentials. - Validate the devices. - Click Save and Collect.

If you want to...	Then...
Import devices	- Click Import Devices option. - Click OK. - Load the devices from the csv template. Note: The CSV template can be found in the OneCollect install directory. The devices will be displayed in a tabular format for editing and updating. You can update the credentials for multiple devices in the list given using Update Credentials link. It is optional to validate the credentials. If you are sure about the credentials and devices added, you can either click Save and Collect or Collect.
Import collected data files	- Under Discover/Import tab, select the Import Collected Data Files option button. - Click OK. - Load the OneCollect data file that has been shared by another user. It will directly get added as a job and you can view the collected data in Data View. Note: Using this option, you can load the data collected from another system using OneCollect or Config Advisor.

Scheduling a data collection job

You can create a scheduled backup job by selecting an entire job start time and recurrence pattern for the saved job. You can also view all backup jobs on the **Saved Projects** page.

Before you begin

OneCollect must have at least one of the jobs saved for scheduling a job.

Steps

1. Select a saved job.
2. Click the **Edit Schedule** icon.
3. In the **Scheduler**, enter the exact time that you want the scheduler to set for the saved job.
4. Click **Save**.
5. In the **Recurrence Pattern** pane, enter the details in the respective fields.

If you want to...	Then...
Set the interval	- Select the Hours and Minutes from the Trigger Every field. - Enter the occurrence of the job in the Occurrence field for the job to be scheduled. - Click Save Schedule. - Click Close.
Set for daily schedule	- In the Start Time drop-down list, enter the time in the Hours and Minutes fields. - Enter the frequency of days in the Recur Every How Many Days? field for the job to be scheduled. - Enter the occurrence of the job in the Occurrence field for the job to be scheduled. - Click Save Schedule. - Click Close.
Set for weekly schedule	- Select Weekly from the Recurrence Pattern drop-down list. - In the Start Time drop-down list, enter the time in the Hours and Minutes fields. - Select either one day of the week or you can also select all the days of the week. - Enter the occurrence of the job in the Occurrence field for the job to be scheduled. - Click Save Schedule. - Click Close.

- Monitor the job progress and execution logs for scheduled jobs.

Editing a saved job

You can edit a job even after you have saved the job.

Steps

- In the **Saved Projects** tab, under the **Actions** column, click the **Edit Project** icon.
- In the **Data Collection Jobs** tab, modify the information that you want.
- Alternatively, click **Validate** to verify the information.
- Click **Save/Collect** to save or collect data.
- In the **Collect Options** dialog box, you have an option to enter the name of the Project Name, Group Name, Pass Phrase, and Confirm Pass Phrase.
- Click **Save Project** button.

Viewing collected data

You can view the collected data from hosts, switches, and storage systems.

Step

1. To view collected data, perform any one of the following methods:

If you want to...	Then...
View data of all the recent job files	a. Click the Data Collection Jobs tab. b. Select the icons to perform any one of the following operations: i. Expand to view more information about the job ii. Collect data iii. View the command viewer iv. View and analyze the collected data v. Delete the collected data The Command Viewer will be launched. c. View the collected data in an .xml format. d. Click the expand symbol (>>) to view a realtime log console. You can view the path of the file. You can select either one or more jobs to export the data into a consolidated report in PDF, Word, or Excel formats. e. Click the file under the Job Name column. You will reach the View & Analyze page to view the health report, device details, visualization diagram, and storage utilization pertaining to that particular job. The information under these boxes are clickable. For example, when you click the NetApp storage controller in the Device Type column inside the Device Details box, you have an option to narrow down your search to obtain information about the system configuration summary, aggregate info, volume info, and LUN info in addition to viewing the stack and visualization diagrams. f. Click Export to export the job information. g. Click Command Viewer to view the commands used in the selected job.
View data for one job file	a. Click View & Analyze tab. b. On the left-hand side, click the job link. c. View all the recent jobs that are listed out. d. Select the job that you want to view for additional information.

Understanding IMT Advisor

IMT Advisor helps you perform IMT validation with ONTAP, protocol, and host collected data.

Before you begin

You must have collected the data and it should be added as a job in the **Data Collection Jobs** page.

About this task

Automated IMT validation of configuration helps you find the supported and unsupported configurations, path failure risks, and upgrade recommendations.

After you have collected the data, you can check whether the components that you have chosen are supported or unsupported. For example, you have selected ONTAP 8.3 and Windows 2012, you can collect data including these two components. IMT Advisor will identify whether these two components are supported, for example, ONTAP 9 and Windows 2012 and it will confirm whether this combination will support the existing environment. It will validate the collected data against all of the latest versions of ONTAP and Windows.

Steps

1. Click **Data Collection Jobs** tab.
2. Click **New Data Collection**.
3. Select at least one supported host (RHEL, SuSe Linux, ESX, ESXi, HP-UX, AIX, Solaris, and Windows) for data collection.
4. Under the Action column, click the **IMT Advisor View** icon.
On the **Add-ons** page, the parsed data and corresponding IMT components are displayed.
5. Select the checkbox(s) for either one or more host(s) that you want.
6. Click **Next** to view supportability.
You can view whether the combination that you have selected is supported or not.
7. Click **Interop Advisor** link to see the upgrade recommendations.

Note: You can use Interop Advisor only if you have uploaded the collected data to AutoSupport. For more information about uploading the collected data to AutoSupport, see [Collecting and uploading data to AutoSupport](#) on page 21.

Collecting and uploading data to AutoSupport

OneCollect collects and sends the collected data of your systems and sends messages to NetApp technical support. You can change the AutoSupport schedule, download AutoSupport messages for troubleshooting, and send an immediate AutoSupport message to NetApp technical support.

About this task

You can generate and send an AutoSupport message that contains collected demographic data.

Steps

1. Open OneCollect.
2. Select **Data Collection Jobs**.

3. Click **New Data Collection**.
4. Select **Device Based** profile.
5. Add ONTAP, Host, and Switch (2 or 3) devices for data collection.
6. Alternatively, click **Validate** to verify the information.
7. Click **Save/Collect**.
8. Monitor job progress and execution log.
9. If posting to AutoSupport is enabled in the **Settings** options, OneCollect will automatically post the collected data to AutoSupport after you have authenticated using the NetApp Single Sign On (SSO) once.
10. If the automatic posting is not enabled, perform the following steps to upload the required files:

If you want to...	Then
Upload from files	a. Select Upload From Files option. If you have the login credentials, you can directly upload the files collected from OneCollect instances to Upload to AutoSupport. If you do not have the login credentials, you can send the OneCollect data files to a NetApp field engineer, who can then upload them to ASUP. This feature helps you to upload files that were collected on a system that do not have Internet access. You can copy the files to a USB flash drive and upload them later to AutoSupport. b. Enter details in the Case ID text box, also provide a description in the Comments text box. However, this is optional. Note: OneCollect supports only those files that are collected using OneCollect.
Upload from jobs	a. Click Upload From Jobs option. b. Select the Job Name is your saved job. c. Enter details in the Case ID text box, also provide a description in the Comments text box. However, this is optional. d. Click Upload ASUP button. e. For validation, enter your user credentials in the NetApp User Login dialog box. Your uploaded data will be sent to NetApp.

Uninstalling OneCollect

You can upgrade to the current version from earlier versions of the product. You can uninstall OneCollect to troubleshoot issues if they persist.

Uninstalling OneCollect on Windows

You can uninstall OneCollect by using the Windows Uninstall program utility.

Before you begin

- OneCollect database file is available under <user_home_directory>\NetApp\OneCollect\Db>. To either avoid accidental deletion or losing your data forever, it is advised to back up the database before you uninstall OneCollect.
- If OneCollect is running, it must be closed.

Steps

1. Browse to the user directory path and delete NetApp and OneCollect folders.
2. Click **Control Panel**.
3. Select **Programs and Features**.
4. In the wizard, right-click OneCollect and select **Uninstall**.

You have successfully uninstalled OneCollect from your system.

Uninstalling OneCollect on Mac and Linux

You can uninstall the OneCollect on Mac and Linux by using the command-line interface.

Before you begin

- OneCollect database file is available under <user_home_directory>\Netapp\OneCollect\Db>. To either avoid accidental deletion or losing your data forever, it is advised to back up the database before you uninstall OneCollect.
- If OneCollect is running, it must be closed.

Steps

1. Kill the OneCollect process.
2. Delete the OneCollect install directory.

You have successfully uninstalled OneCollect from your system.

Troubleshooting

You can find information about how to troubleshoot some of the issues that you might come across when you use the OneCollect plug-ins. You can find details of the issue, possible cause, and workaround for the issue.

Resolving OneCollect launching error

OneCollect does not launch on Windows, Mac or Linux system after installation.

About this task

To launch OneCollect on either Windows, Mac, or Linux system, perform the following steps:

Step

1. In a browser, manually enter the URL:

<http://localhost:8044/oc/>

If you want to...	Then...
Resolve OneCollect launching error on Windows	a. Check whether the OneCollect process is running in the Task Manager in Windows. b. If the process is not running, go to the installation directory, by default <code><C:\Program Files (x86)\NetApp\OneCollect></code> and launch the OneCollect process by clicking <code>oncollect.exe</code>. If it still does not work, the port might be used by other application (check <code>netstat -an</code>). c. To rectify this issue, edit the CONFIG file in the user directory <code><user home directory>\NetApp\OneCollect\Config</code> and set the PORT number to an available port. Restart OneCollect. If you are trying to access OneCollect from the other systems, make sure the firewall allows the port used by OneCollect.
Resolve OneCollect launching error on Mac and Linux	a. Check whether the process is running by executing <code>ps aux grep oncollect</code>. b. If the process is not running, go to the installation directory, by default <code><install_dir>/OneCollect</code> and launch the OneCollect process by running <code>./oncollect</code>. If it still does not work, the port might be used by other application (check <code>netstat -an</code>). c. To rectify this issue, edit the CONFIG file in the user directory <code><user home directory>/NetApp/OneCollect/Config</code> and set the PORT number to an available port. Restart OneCollect. If you are trying to access OneCollect from the other systems, make sure the firewall allows the port used by OneCollect.

Backing up the database

The device credentials, saved jobs, and user preferences are saved in the database.

About this task

If you want to delete OneCollect, it is advised to back up the database to avoid losing your saved data.

Steps

1. Navigate to <user_home_directory>\Netapp\OneCollect\Db>.
2. Back up the database folder.

Changing the default timeout for command execution

You can change the default timeout for command execution using the COLLECTION_TIMEOUT variable in the Config file.

Steps

1. Open the Config file.
 - Windows: <user_home_directory>\NetApp\OneCollect\Config
 - Mac and Linux: <user_home_directory>/NetApp/OneCollect/Config
2. Change the value of COLLECTION_TIMEOUT to the desired time value (in seconds).
3. Save the file.
4. Restart the server.

The framework will include the new timeout value.

Restarting the OneCollect server

You can restart the server on a host using either Windows, Mac, or Linux.

Step

1. Use one of the following methods to restart the OneCollect server.

If you want to...	Then...
Restart OneCollect on a Windows system	a. Right-click and select Start Task Manager. b. Click Processes tab and select onecollect.exe. c. Click End Process.

If you want to...	Then...
Restart OneCollect on a Mac or Linux system	- Search for OneCollect process using <code>ps aux grep onecollect</code>. - Note down the process ID of OneCollect and kill the process using <code>kill <pid></code>. - Restart the process by running <code>./onecollect</code> from the OneCollect install directory.

Sending the feedback

You must notify NetApp technical support if you want to send us your feedback, report a problem, or need assistance in using OneCollect.

Steps

- Click **Help > Report a Problem**.
You will be directed to the [NetApp OneCollect Community Forum](#).
- If you are a new user, register on the NetApp Community Forum.
- If you are an existing user, sign in.
- Enter the subject in the **Subject** line.
- You must provide the description of your feedback, problem, or query related to OneCollect in the **Body** section.
- Add a file, if any, to the **Attachment** section.
- You must either type OneCollect in the **Label** field or click OneCollect link provided under the **Choose a Label** section.
- Click **Post** to send your feedback to NetApp.

Searching for the result and log files

After you have successfully collected the data, the result and log files are saved.

About this task

You can access the result and log files as listed in the table below:

Type of file	File location
Log File	<user home dir>/OneCollectData/LogFiles>
Result file	<user home dir>/OneCollectData/JobFiles>

On Mac

/Users/<username>

On Linux

```
/home/<username>(~)
```

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