

Guide to Collect ACI Tech Supports and TAC Requested Outputs

Contents

[Introduction](#)

[Background Information](#)

[ACI APIC and Switch](#)

[On-Demand Techsupport](#)

[Trigger & Upload to Intersight via APIC - Nexus Insights Cloud Connector App](#)

[Trigger & Upload to Intersight via ND - Nexus Dashboard Insights](#)

[Trigger via APIC UI](#)

[On-Demand Techsupport Files Explained](#)

[Techsupport Local](#)

[Trigger via APIC CLI](#)

[Trigger via Switch CLI](#)

[CIMC Techsupport](#)

[Trigger via CIMC UI](#)

[Trigger via CIMC CLI](#)

[Parsing CIMC Techsupports](#)

[Extended Audits, Events, Faults and more \(TacOutput\)](#)

[Trigger via "trigger tacoutput" - 5.3/6.0\(3d\) and later releases](#)

[Trigger via Collect TacOutputs script](#)

[Crash/Core Files](#)

[Collect via APIC UI](#)

[Collect via Switch CLI](#)

[APIC App Techsupport](#)

[Trigger via APIC UI](#)

[Application Virtual Edge \(AVE\)](#)

[Vem-Support](#)

[Trigger via AVE Node CLI](#)

[vCenter/ESXi Host Logs](#)

[Trigger via vCenter/ESXi UI](#)

[Nexus Dashboard Orchestrator \(NDO\), Previously MSO](#)

[Troubleshooting Report](#)

[Trigger via NDO/MSO UI - MSO Pre-2.x](#)

[Trigger via NDO/MSO UI - MSO version 2.x](#)

[Trigger via NDO/MSO UI - MSO version 3.x and above](#)

[Stream via NDO/MSO UI - MSO version 3.x and above](#)

[Standalone Audit Logs](#)

[Collection via NDO/MSO UI](#)

Introduction

This document describes the various logs and outputs that are required for troubleshooting when working

with TAC for ACI.

Background Information

For a quick reference on what data to gather before opening a TAC case, refer to Table 1.

Table 1: Logs/Show tech collection matrix

Issues	What to collect	Notes
Upgrade issues	<ol style="list-style-type: none"> 1. On-Demand Techsupport from nodes with upgrade issue 2. On-Demand Techsupport from all APICs 3. Additional faults,events,audits via TacOutput 	If APICs are diverged and on-demand techsupport collection fails, collect "Techsupport Local"
Random connectivity issue	<ol style="list-style-type: none"> 1. On-Demand Techsupport from src node (where the src endpoint is connected) 2. On-Demand Techsupport from dst node (where the dstendpoint is connected) 3. Additional faults,events,audits via TacOutput 	
Complete loss of connectivity	<ol style="list-style-type: none"> 1. On-Demand Techsupport from leaves (src and dst) 2. On-Demand Techsupport from spines 3. On-Demand Techsupport from APICs 4. Additional faults,events,audits via TacOutput 	<p>For ongoing outages, engage TAC for live debugging.</p> <p>If nodes are to be rebooted for any reason, collect logs prior to reload if RCA is to be requested.</p>
Clustering issues	<ol style="list-style-type: none"> 1. On-Demand Techsupport from all APICs 2. Additional faults,events,audits via TacOutput 	If APICs are diverged and on-demand techsupport collection fails, collect "Techsupport Local"
Routing issues	<ol style="list-style-type: none"> 1. On-Demand Techsupport 	

	<p>from nodes with routing issue</p> <ol style="list-style-type: none"> 2. Additional faults,events,audits via TacOutput 	
Node Crash/Unexpected Reload	<ol style="list-style-type: none"> 1. On-Demand Techsupport from crashed nodes 2. Crash/core files from crashed node(s) 3. Additional faults,events,audits via TacOutput 	
APIC APP issue	<ol style="list-style-type: none"> 1. On-Demand Techsupport from all APICs 2. APIC APP Techsupport for affected App 	

ACI APIC and Switch

On-Demand Techsupport

Note: If your ACI Fabric is connected and claimed via Intersight, Tech Support generation and upload to the TAC SR for the Serial Number provided during case open is automated. The TAC engineer on that SR to can then trigger the generation and upload or additional TechSupports for any other connected devices via Intersight.

Trigger & Upload to Intersight via APIC - Nexus Insights Cloud Connector App

To use this method, your [ACI Fabric must be connected and claimed on Intersight via the the APIC: Nexus Insights Cloud Connector app](#).

1. Navigate to: **APIC > Apps > Installed Apps > open NICC app > TAC Assist > click on "Begin"**
2. Select the node(s), then click "Collect Logs"
3. Once the Job Status is "COMPLETE", click on "View Details"
4. In "Job Details" Page, under Logs table, you file find "Cloud" Column.
5. Click on "Upload" - for each device's TechSupport Bundle

Trigger & Upload to Intersight via ND - Nexus Dashboard Insights

To use this method, your [ACI Fabric must be connected and claimed on Intersight via Nexus Dashboard: Nexus Dashboard Insights](#).

1. Navigate to: **Nexus Dashboard > Admin Console > Services > Open "Nexus Dashboard Insights" > Troubleshoot > Log Collector**
2. Click on "New Log Collection"
 1. Give a name to log collection.
 2. Select a site.
 3. Enable Checkbox for "Auto Upload Log Files"

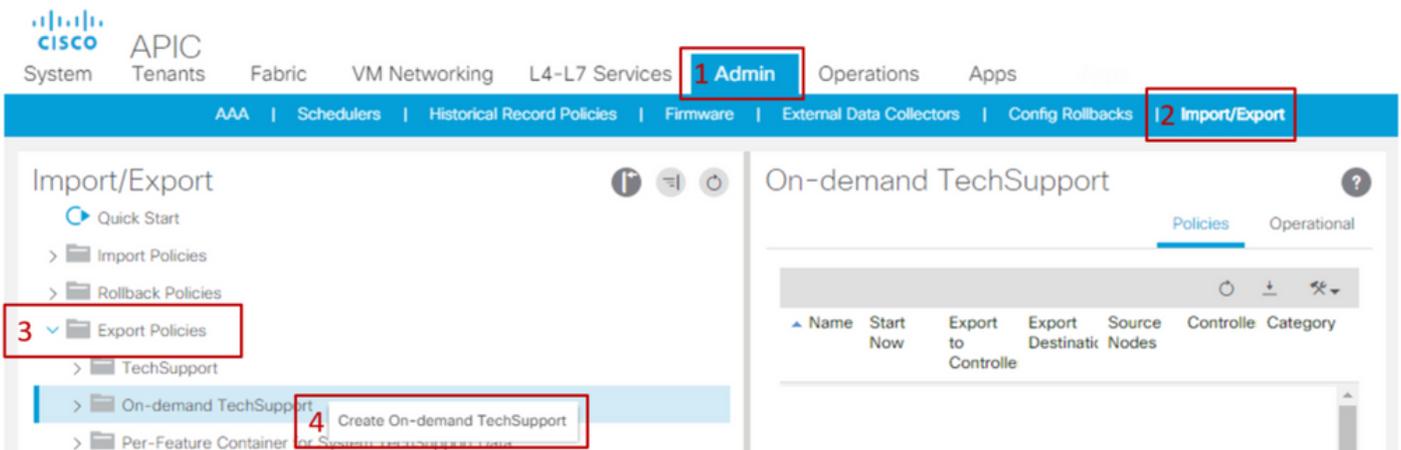
4. Click on "Select Nodes", and chose the node/s
5. Click on "Start Collection"
6. TechSupport files would get uploaded to intersight.com
3. Once the upload completes, notify TAC that the files are uploaded on intersight.
4. TAC engineer would be able to move the files from intersight to the TAC case for analysis.

Trigger via APIC UI

Create an On-Demand Techsupport Policy

 **Note:** Do not specify a TechSupport Time Range unless explicitly asked to by TAC. If there is excessive log churn, doing so may result in a loss of logs. This severely impacts the ability of TAC to provide a timely RCA. If a Techsupport Time Range is supplied, it trims logs based on the 'last file modification' timestamp and NOT based on the timestamps within the logfile itself.

1. In the menu bar, click **Admin > Import/Export > Export Policies > Right-click On-demand TechSupport > Create On-demand TechSupport**
2. Enter the appropriate values in the fields of the Create On-demand TechSupport dialog box.
 - If a remote location is not available, check Export to Controller. Generated Techsupports can then be downloaded via the Operational Tab of the GUI after they have been generated.
 - Check Include All Controllers in TechSupport to generate APIC Techsupports.
 - The Source Nodes field allows you to specify switch nodes that generate a Techsupport.
3. Click Submit to create the On-Demand Techsupport Policy.



The screenshot shows the Cisco APIC GUI. The top navigation bar includes 'Admin' (highlighted with a red box and '1'), 'Operations', and 'Apps'. Below this, a secondary bar contains 'Import/Export' (highlighted with a red box and '2'). The left sidebar shows a tree view with 'Export Policies' (highlighted with a red box and '3') expanded, and 'On-demand TechSupport' selected, with 'Create On-demand TechSupport' (highlighted with a red box and '4') visible in the sub-menu.

The main content area shows the 'On-demand TechSupport' page with tabs for 'Policies' and 'Operational'. A table is visible with columns: Name, Start Now, Export to Controller, Export Destination, Source Nodes, Controller, and Category.

Create On-Demand TechSupport



Create TechSupport Export Policy

Name:

5.1 Export to Controller:
Export Destination:

For App:

Include pre-upgrade logs:

5.2 Include All Controllers in TechSupport:

5.3 Source Nodes:

Specify TechSupport Time Range:

Category:

6

Generate an On-Demand Techsupport

1. Navigate to an existing On-Demand Techsupport Policy. Created policies can be found at: **Admin > Import/Export > Export Policies > On-demand TechSupport > Expand On-demand TechSupport folder > right-click the policy to be used > Collect Tech Supports**.
 - Or Left-click the On-Demand Techsupport Policy to bring it up in the Main pane; then click the Wrench/Hammer icon and choose Collect Tech Supports.
2. Choose "Yes" to begin collecting tech support information.

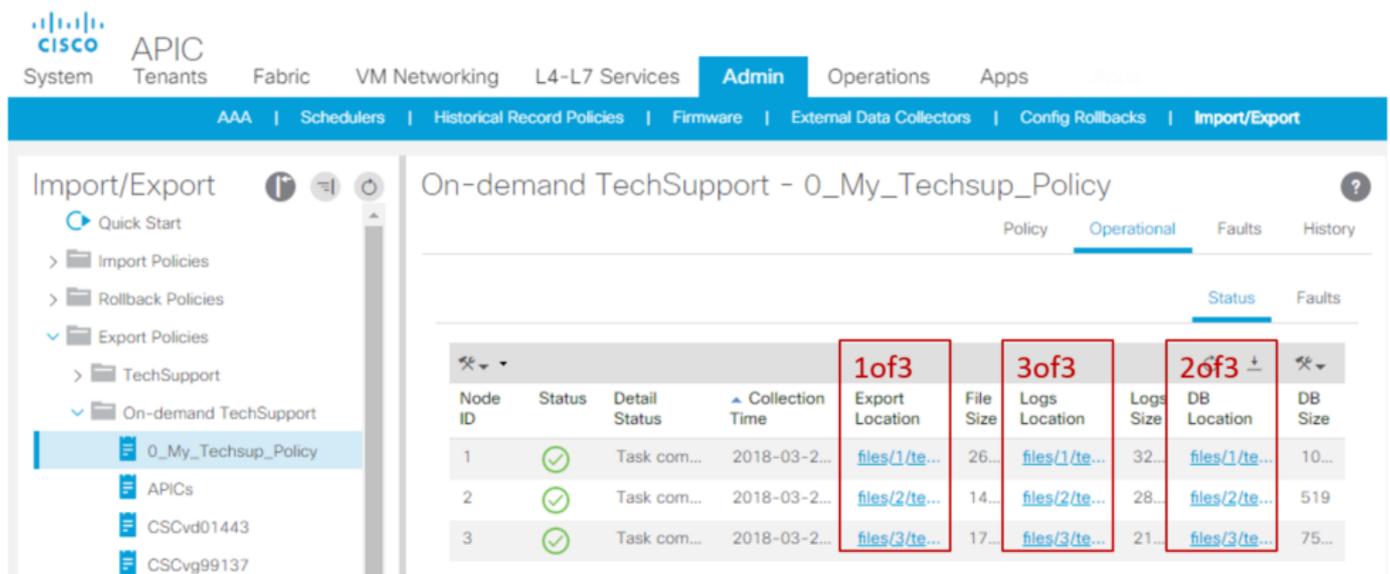
The screenshot shows the Cisco APIC interface. The top navigation bar includes 'System', 'Tenants', 'Fabric', 'VM Networking', 'L4-L7 Services', 'Admin', 'Operations', and 'Apps'. The 'Admin' tab is active, and the 'Import/Export' section is selected. The left sidebar shows a tree view with 'Import Policies', 'Rollback Policies', 'Export Policies', 'TechSupport', and 'On-demand TechSupport'. The 'On-demand TechSupport' folder is expanded, showing a policy named '0_My_Techsup_Policy'. A context menu is open over this policy, with 'Collect Tech Supports' highlighted (labeled 1.1). A dialog box titled 'Collect Tech Supports' is displayed in the center, asking 'You are about to collect tech supports. Are you sure?' with 'Yes' (labeled 2) and 'No' buttons. In the background, the configuration page for the policy is visible, with 'Collect Tech Supports' (labeled 1.2) highlighted in the top right corner.

Collect the generated Techsupport

1. If "Export to Controller" was not enabled during Techsupport generation, the Export Destination (Remote Location) should be checked for all techsupport files.

- If "Export to Controller" was enabled, navigate to the On-Demand Techsupport Policy that the techsupports were generated against. Created policies can be found at **Admin > Import/Export > Export Policies > On-demand TechSupport**
 - The generated techsupports can be found within the Operational tab of that On-Demand Techsupport Policy. Each file has a link to download it via http/https. Each node has three links, one link tied to each file.

 **Note:** If the version is earlier than 2.2, you must use the local "admin" user account to download Techsupports via the UI. Otherwise, use any other local account that has admin privileges. Remote users are not be able to download techsupports via the UI. Instead, they should use sftp or another method to pull the techsupport files from the "/data/techsupport/" directory on the corresponding APICs.



The screenshot shows the Cisco APIC Admin interface. The left sidebar shows the navigation menu with 'On-demand TechSupport' expanded to '0_My_Techsup_Policy'. The main content area shows the 'Operational' tab for this policy, displaying a table of techsupport bundles. The table has columns for Node ID, Status, Detail Status, Collection Time, Export Location, File Size, Logs Location, Logs Size, DB Location, and DB Size. Three rows are visible, each with a green checkmark status. Red boxes highlight the 'Export Location', 'Logs Location', and 'DB Location' columns, which contain URLs like 'files/1/te...', 'files/2/te...', and 'files/3/te...'. The suffixes '1of3', '3of3', and '2of3' are also visible above the respective columns.

 **Note:** The number in the URL of the techsupport bundle indicates which APIC the file resides on. For example, "files/2/techsupport.tgz" indicates that this specific bundle can be found on APIC 2's "/data/techsupport/" directory.

On-Demand Techsupport Files Explained

If the Techsupports were generated with the Export to Controller option, the GUI shows three URLs per ACI node (APIC node or Switch node). Each URL is a different log file type and contains unique information. TAC typically requires all three files to be uploaded per node in order to get all logging for a complete analysis.

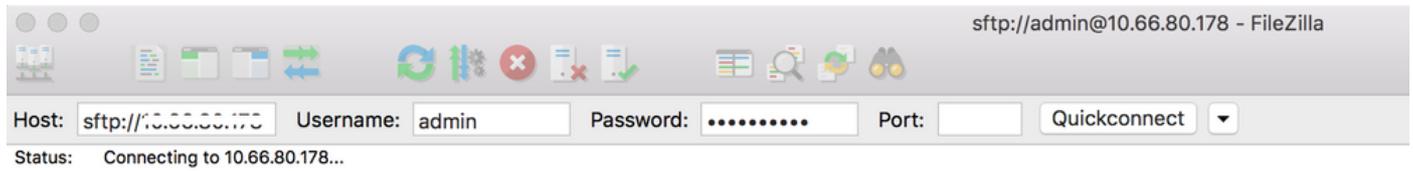
Each URL maps to one of the three filetypes:

Category	Typical Suffix	Useful for:	File Size
Export	_1of3.tgz	Audit/Fault Logs	Small-Med
Logs	_logs_3of3.tgz	Process Logs	Largest
DB	_db_2of3.tgz	MO Dump	Small

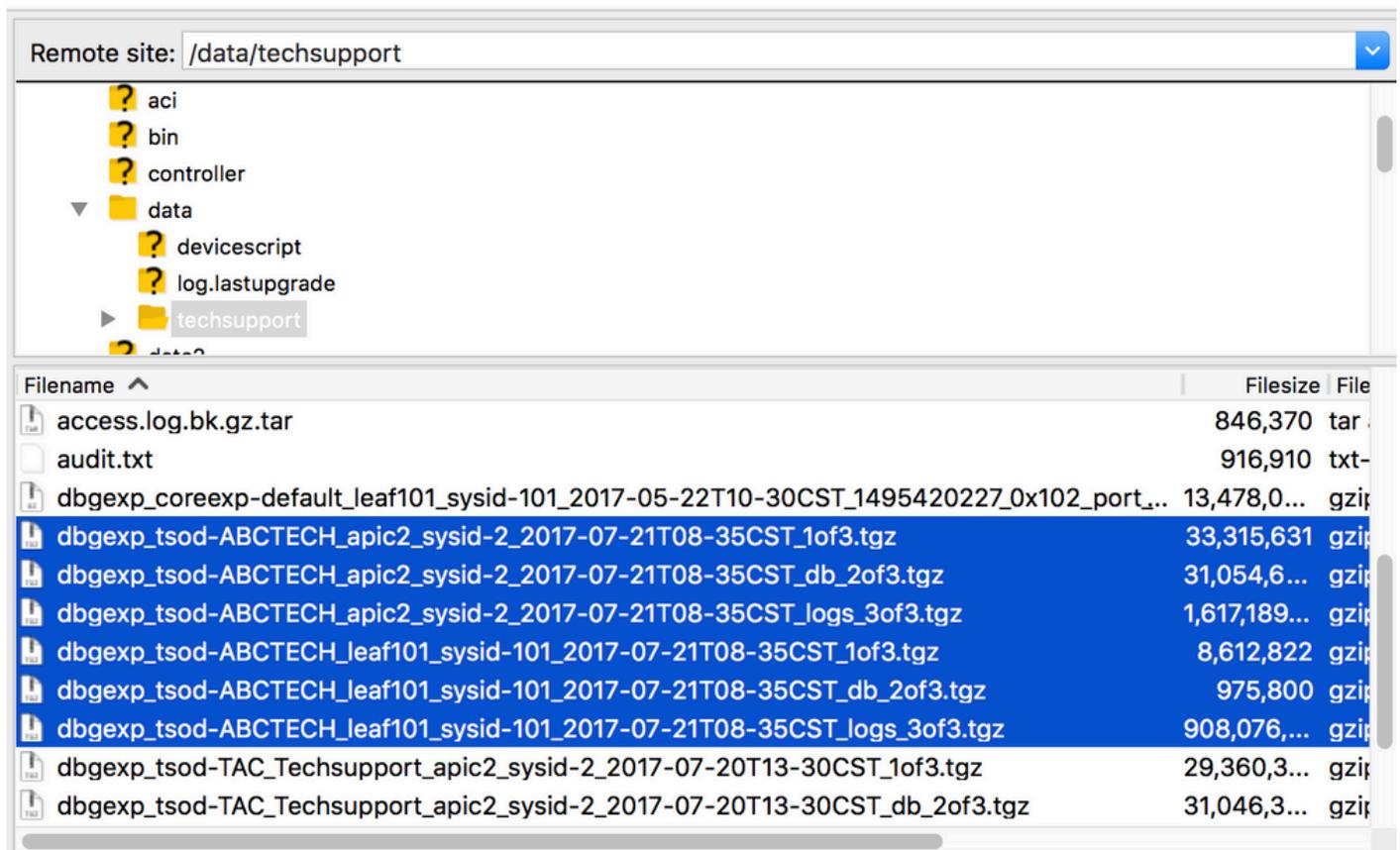
 **Note:** If an Export Destination was selected instead of Export to Controller, the defined Remote Location creates a folder that contains the three files per node.

If there is an issue in downloading the tech-support using the browser link, directly download the files from APIC storage using an scp or sftp client such as WinSCP or FileZilla.

1. Connect (sftp) to each APIC. The collected tech-support files are stored across all available APICs, so it is important to check each APIC for the collected tech-support files.



2. Navigate to /data/techsupport folder in the connected APIC (repeat this step in all APIC controllers).



Look for the files with a name that contains the On-demand TechSupport policy name (in this example, it is "ABCTECH") and download those files to your computer.

Techsupport Local

An On-Demand Techsupport is always preferred to a "techsupport local" because an On-Demand Techsupport provides a more complete picture. However, it relies on a fully-fit APIC cluster as the collection is triggered via policy.

Note that a "Techsupport local" has to be triggered on each individual node, so if you plan to collect "techsupport local" for all APICs, the cmd must be run on each APIC in the cluster separately.

Techsupport Local Scenarios

- APIC is not fully-fit

- ACI switch is not yet discovered by the APIC
- ACI switch has lost communication with the APIC
- Internal process malfunction preventing On-Demand Techsupport operation (rare)

Trigger via APIC CLI

1. Open an SSH session with the APIC using admin credentials.
 - If you cannot use admin credentials to log in, use the username "rescue-user". The password should be the same as the "admin" local user.
2. Run the command **bash -c "techsupport local"**

```
<#root>
```

```
Using username "admin".
Application Policy Infrastructure Controller
```

```
apic1#
```

```
bash -c "techsupport local"
```

```
This command is being deprecated on APIC controller, please use NXOS-style equivalent command
Running bash commands
```

```
Completed 1 of 10 commands
```

```
...
```

```
Completed 10 of 10 commands
```

```
Starting data compression
```

```
Techsupport collected at /data/techsupport/local_apic1_2018-05-29T08-17.tgz . Please remove the fi
```

3. Download the local techsupport.
 - Option A: Download the techsupport file using SCP:
 - WinSCP or pscp.exe (Windows Users)
 - Native SCP client (MAC Users)
 - Option B: Download the techsupport file using HTTPS:
 1. Open a browser such as Chrome or Firefox.
 2. Navigate to: **https://<aci.apic.ip.addr>/files/<apic#>/techsupport/<ts_filename>**
 - Example: https://a.p.i.c/files/1/techsupport/local_apic1_2018-05-29T08-17.tgz
 3. Log in using admin credentials.
 4. If prompted, select Save File on the browser download prompt.

Trigger via Switch CLI

1. Open an SSH session with the ACI switch using admin credentials.
 - If the switch is not yet discovered by the APIC, use the username "admin".
2. Run the command: **"techsupport local"**

```
<#root>
```

```
fab5-leaf1#
```

```
techsupport local
```

```
Running bash commands
```

```
Completed 1 of 9 commands
```

```
...
```

```
Completed 9 of 9 commands
```

```
Starting data compression
```

```
Techsupport collected at /data/techsupport/local_fab5-leaf1_2018-05-29T08-16.tgz . Please remove the fi
```

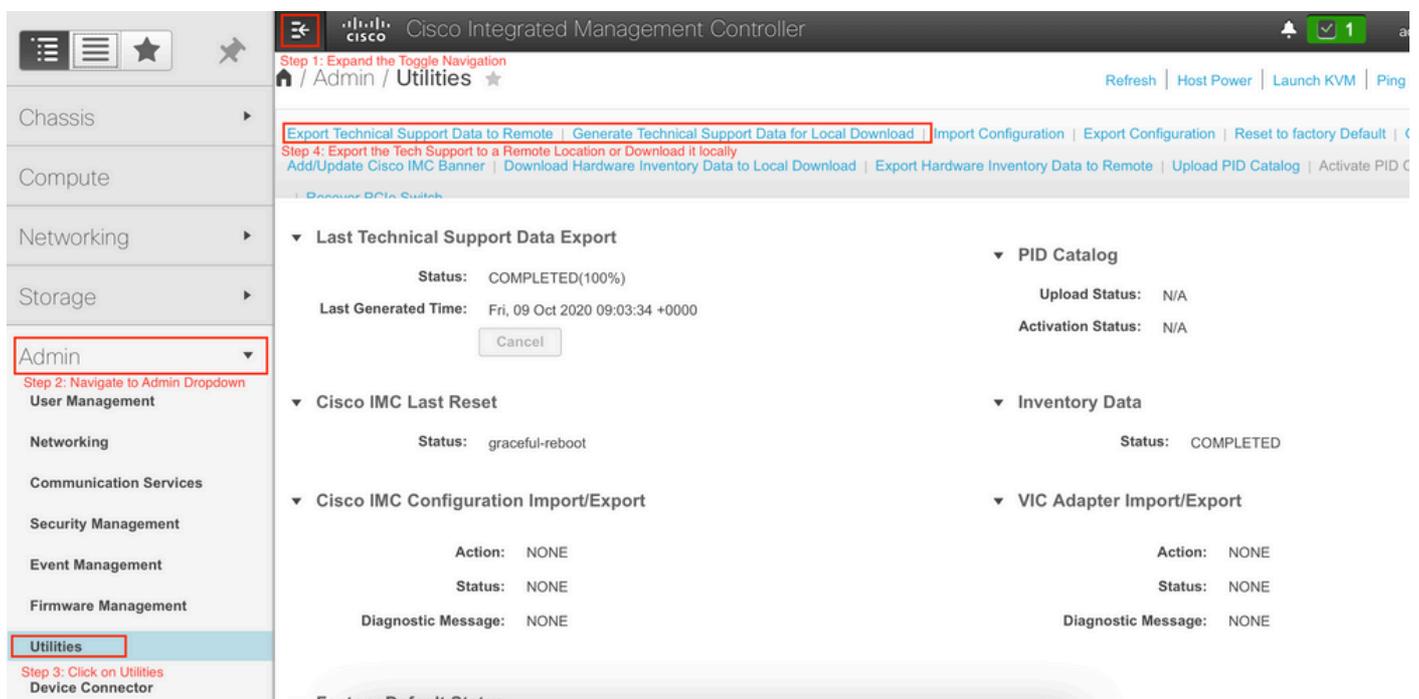
3. Download the local techsupport.

- Option A: Download the techsupport file from the ACI switch using SCP:
 - WinSCP or pscp.exe (Windows Users)
 - Native SCP client (MAC Users)
- Option B: Download the techsupport file using HTTPS via the APIC:
 1. Log in to an APIC CLI (note which APIC is used for step#4)
 2. Transfer the techsupport file from the ACI switch to the APIC using the following command:
 - **scp <node-name>:/data/techsupport/<ts_filename> /data/techsupport**
 - Example: apic1# scp fab5-leaf1:/data/techsupport/local_fab5-leaf1_2018-05-29T08-16.tgz /data/techsupport
 3. Open a browser such as Chrome or Firefox.
 4. Navigate to: **https://<aci.apic.ip.addr>/files/<apic#>/techsupport/<ts_filename>**
 - Example: https://a.p.i.c/files/1/techsupport/local_fab5-leaf1_2018-05-29T08-16.tgz
 5. Log in using admin credentials.
 6. If prompted, select Save File on the browser download prompt.

CIMC Techsupport

Trigger via CIMC UI

A Techsupport from APIC CIMC can be collected to review logs related to the APICs Chassis. A CIMC show tech can be captured locally or sent to a remote location from the Utilities section of CIMC Admin tab.



Trigger via CIMC CLI

On the APIC CIMC CLI enter:

```
~ # scope cimc
~ /cimc # scope tech-support
```

```

~ /cimc/tech-support # set tftp-ip 192.168.1.1
~ /cimc/tech-support *# set path \techsupport\showtech
~ /cimc/tech-support *# commit
~ /cimc/tech-support *# start

```

Parsing CIMC Techsupports

Some of the key fields from within the show tech command are as below.

Techsup File/Location	Description
var/	Contains detailed logs, and status of all monitored services. It also contains services information files such as the configuration of SOL and IPMI sensor alarms.
var/log	Contains the rolling volatile log messages
obfl/	Contains the rolling non-volatile log messages
met/	Non-volatile configuration and SEL
mp/	The show tech-support text files, along with BIOS tech-support text files. The text files contain all process, network, system, mezzanine, and BIOS state information.
mctool	Gets basic information on the state of the CIMC
network	Gets current network configuration and socket information
obfl	Gets live obfl (On-Board Failure Logs)
messeges	Gets live /var/log/messages file
alarms	Lists sensors in alarm states
sensors	Current sensor readings from IPMI
power	Current power state of the x86

Extended Audits, Events, Faults and more (TacOutput)

TAC can request additional basic outputs such as Faults, Events, and Audits which are generally required for RCA.

As of today, the show techs already include a subset of these objects, however only the last 10,000 records. In some cases, TAC requires the full set of records, which goes well beyond 10,000 records.

 **Note:** Starting with release 5.2(1g), you can use the CLI Command 'trigger tacoutput' from the APIC to collect these additional objects. However, in releases prior to 5.3(x) and 6.0(3d) the built-in script may fail to collect all pages of records. In this case it is recommended to use the most updated version of the script within the [aci-tac-scripts](#) repository outlined in the next section.

Trigger via "trigger tacoutput" - 5.3/6.0(3d) and later releases

For ACI Fabrics running version 5.3/6.0(3d) and later releases, **trigger tacoutput** provides a simplified collection interface for Events, Faults, Audit and other troubleshooting outputs):

```
<#root>
```

```
apic1#
```

```
trigger tacoutput
```

```
Select corresponding numbers of objects to collect. Separate numbers with commas. *Note, topSystem, fab
Ex: 1,2,3,4,5
```

```
1. faultInfo *collected unfiltered
2. faultRecord
3. eventRecord
4. aaaModLR *collected unfiltered
5. polDeploymentRecord
6. epRecord
7. healthRecord
8. healthInst *collected unfiltered
```

```
Enter selections:
```

```
1,2,3,4,5,6,7,8
```

```
Enter record start date (format: 2019-12-15T00:00:00) *default is one month prior to current date:
Enter record end date (format: 2019-12-15T00:00:00) *default is current date:
```

```
... collection runs...
```

```
2021-12-17T08:19:59 TacOutput collection completed.
```

```
2021-12-17T08:19:59 Verify files and file sizes at /tmp/TacOutput2021-12-17T08-16-19
```

```
2021-12-17T08:19:59 Compressing files...
```

```
2021-12-17T08:20:01 Compression completed
```

```
Logs available for SCP or SFTP download from /data/techsupport/TacOutput-2021-11-17T08:18:06-to-2021-12-17T08:18:06
To download through your web browser go to
```

```
https://<apic address>/files/1/techsupport/TacOutput-2021-11-17T08:18:06-to-2021-12-17T08:18:06.tgz
```

Note: in the URL above 1 denotes the APIC ID 1, if script was run on APIC-n, then n must be specified i

To remove files when done run

```
rm -rf /tmp/TacOutput2021-12-17T08-16-19
rm -f /data/techsupport/TacOutput-2021-11-17T08:18:06-to-2021-12-17T08:18:06.tgz
```

Trigger via Collect TacOutputs script

For ACI Fabrics running pre 5.3/6.0(3d), there is a [Collect TacOutput](#) Script available within the [aci-tac-scripts](#) repository which serves a similar interface as the **trigger tacoutput** command:

```
<#root>
```

```
apic#
```

```
/tmp/collectTacOutputs.sh
```

```
Select corresponding numbers of objects to collect. Separate numbers with commas. *Note, topSystem, fab
Ex: 1,2,3,4,5
```

1. faultInfo *collected unfiltered
2. faultRecord
3. eventRecord
4. aaaModLR
5. polDeploymentRecord
6. epRecord
7. healthRecord
8. healthInst *collected unfiltered

```
Enter selections:
```

```
1,2,3,4,5,6,7,8
```

```
Enter record start date (format: 2019-12-15T00:00:00) *default is one month prior to current date: 2019
Enter record end date (format: 2019-12-15T00:00:00) *default is current date: 2020-01-05T00:00:00
```

```
...script collection runs...
```

```
Compression completed
```

```
Logs available for SCP or SFTP download from /data/techsupport/TacOutput-2019-12-25T00:00:00-to-2020-01-05T00:00:00
To download through your web browser go to https://files/1/techsupport/TacOutput-2019-12-25T00:00:00-to-2020-01-05T00:00:00
```

Crash/Core Files

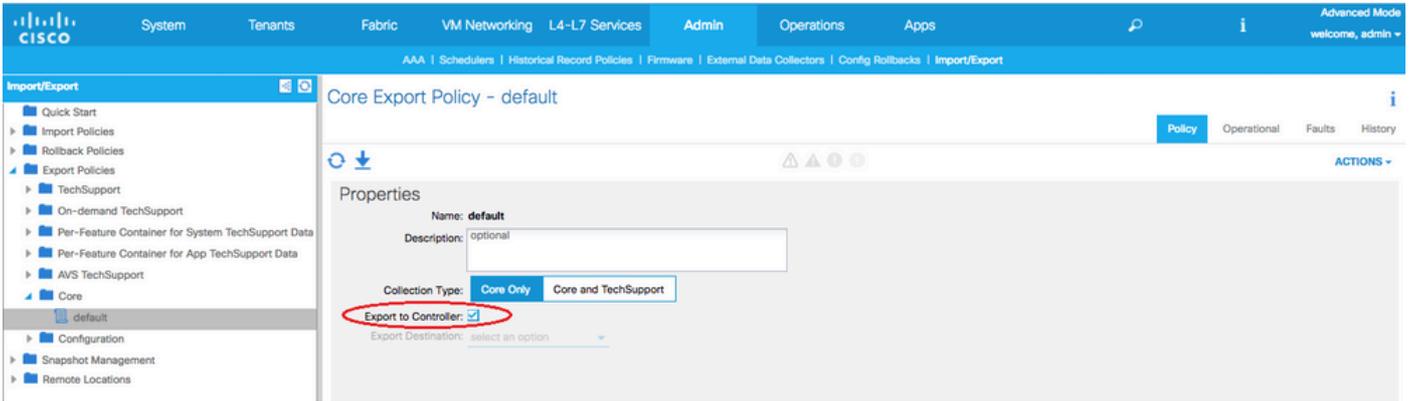
Collect via APIC UI

The ACI switch node and APIC have numerous processes which control various functional aspects on the system. If the system has a software failure in a particular process, a core file is generated and the process is reloaded. When a process crashes and a core file is generated, a fault as well as an event is generated. When the process on the switch/APIC crashes, the core file is compressed and copied to the APIC.

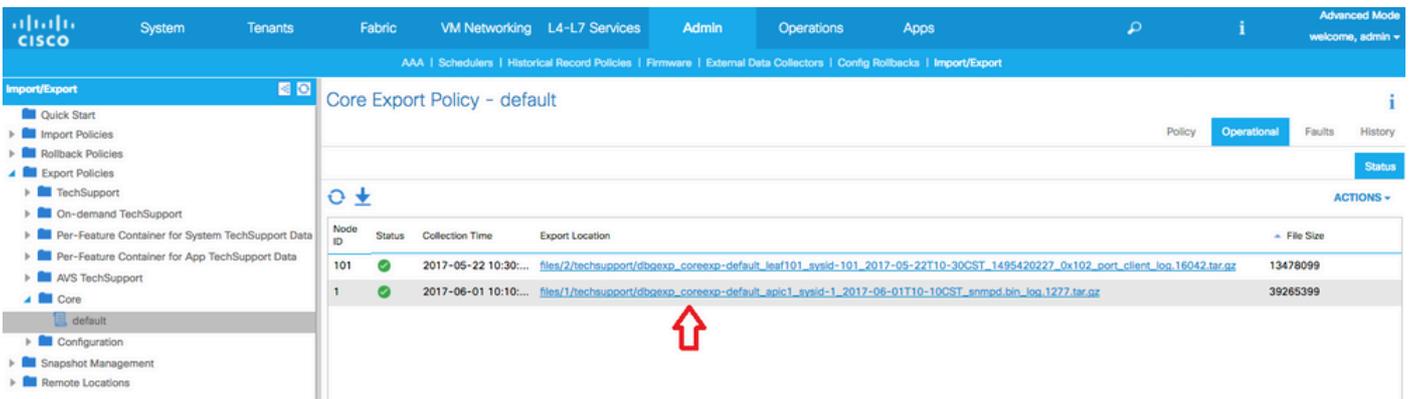
The APIC GUI provides a central location to collect the core files for the fabric nodes.

A new export policy can be created from **Admin > IMPORT/EXPORT in Export Policies > Core**.

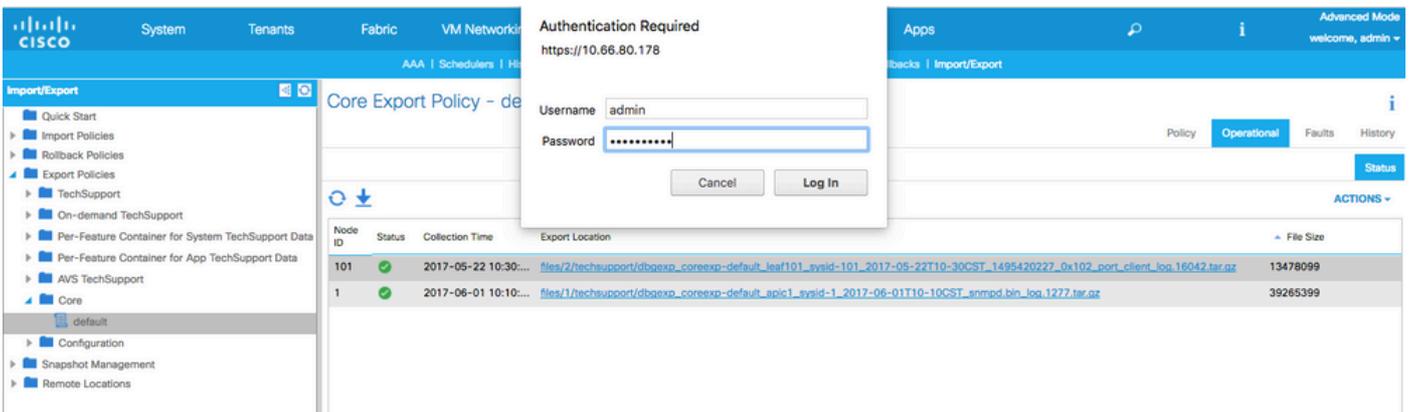
There is a **default** core policy where files can be downloaded directly. All generated core files attempt a transfer to the APIC controller when generated. If successful, they can be found under the **default** core policy.



You can view the generated (and exported) core files by reviewing the **Operational** tab. In this tab, you can review the node which generated the core files (service crashed), collection time, and so on.



You can download the files to your desktop by clicking the **"Export Location"** link. Use your APIC credentials when prompted.



Alternatively, you can access the core files via SSH/SCP through the APIC at /data/techsupport folder on the APIC where the core file is located. Note that the core file is available at /data/techsupport on one APIC in the cluster; the exact APIC where the core file resides can be found by the Export Location path as shown in the GUI. For example, if the Export Location begins with "files/3/", the file is located on node 3 (APIC3).

Collect via Switch CLI

In some exceptional cases, the cores from the Leafs or Spines may not get copied to the APIC and they can be found in "/logflash/core" of the switches. They can be retrieved by SCP to the switch directly or by moving the file to APIC and then SCP out of APIC.

The collection script attempts to collect the corefiles in /logflash/core as well as additional crash related information:

```
#Run on an ACI Leaf Node, Copy from here
bash -c '
# set this to correct leaf name
leaf="$(hostname)" "_data"

# collect data
mkdir /data/techsupport/$leaf
cd /data/techsupport/$leaf
show system reset-reason > show_sys_rr.log
vsh -c "show logging onboard internal reset-reason" > show_logg_onb_internal_rr.log
vsh -c "show logging onboard stack-trace" > show_logg_onb_stack-trace.log
vsh -c "show logging onboard card-boot-history" > show_logg_onb_card-boot-history.log
vsh -c "show processes log details" > show_process_log_detail.log
df -h > df.log
ls -liah /logflash/core > logflash_core.log
cp /var/log/dmesg ./
cp -rf /mnt/ifc/log/last_run/ ./
mkdir bootflash; cp /bootflash/mem_log* ./bootflash/
mkdir mnt_pss; cp -rf /mnt/pss/* ./mnt_pss/
mkdir mnt_pstore; cp -rf /mnt/pstore/* ./mnt_pstore/
mkdir logflash_core; cp -rf /logflash/core ./logflash_core

# compress and combine files
cd /data/techsupport
zipfile="$leaf".tgz"
tar -zcvf ./zipfile ./leaf/*
rm -rf ./leaf/*
rmdir ./leaf

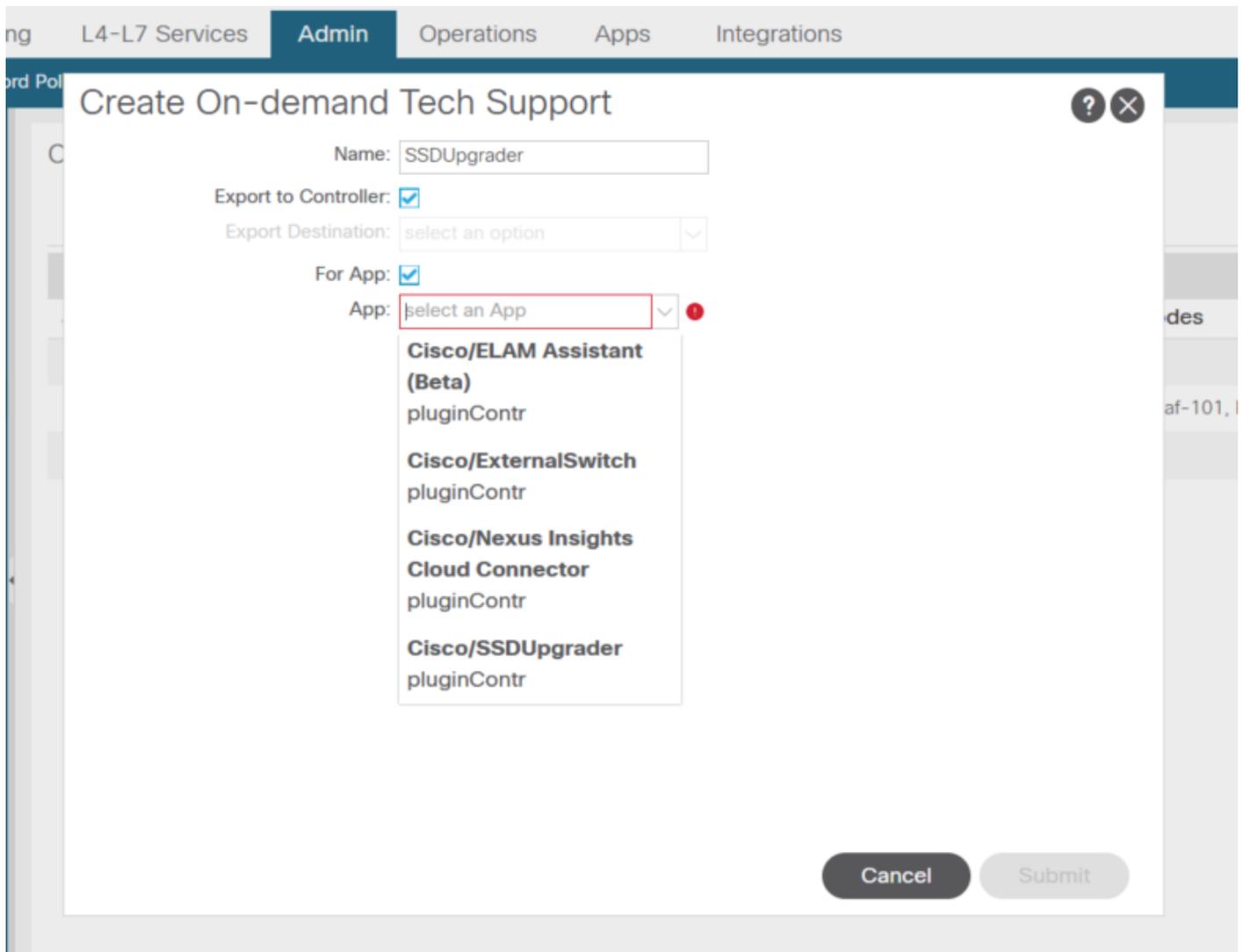
echo ""
echo " ///// Please collect /data/techsupport/"$zipfile" and upload to SR /////"
'
#copy to here
```

APIC App Techsupport

Trigger via APIC UI

If an APIC APP is in use and is found to be having issues, a specific On-demand Techsupport policy can be created against the App to collect its logs for analysis.

The Policy can be created at **Admin > Import/Export > Export Policies > Create On-demand Tech Support**. There is a specific option "For App" which allows the user to select an APIC APP to collect logs against:



Once the policy is created, collection can be triggered against that policy to collect the techsupport and make it available for download from the operational tab if "Export to Controller" was selected.

Application Virtual Edge (AVE)

Vem-Support

Trigger via AVE Node CLI

Log in to the AVE CLI and run the below command. The show tech is collected in the **/tmp** directory. You can use SCP to export it.

```
<#root>  
cisco-ave:~$  
vem-support all
```

This may take some time. Please wait.
Copying dpa logs
...

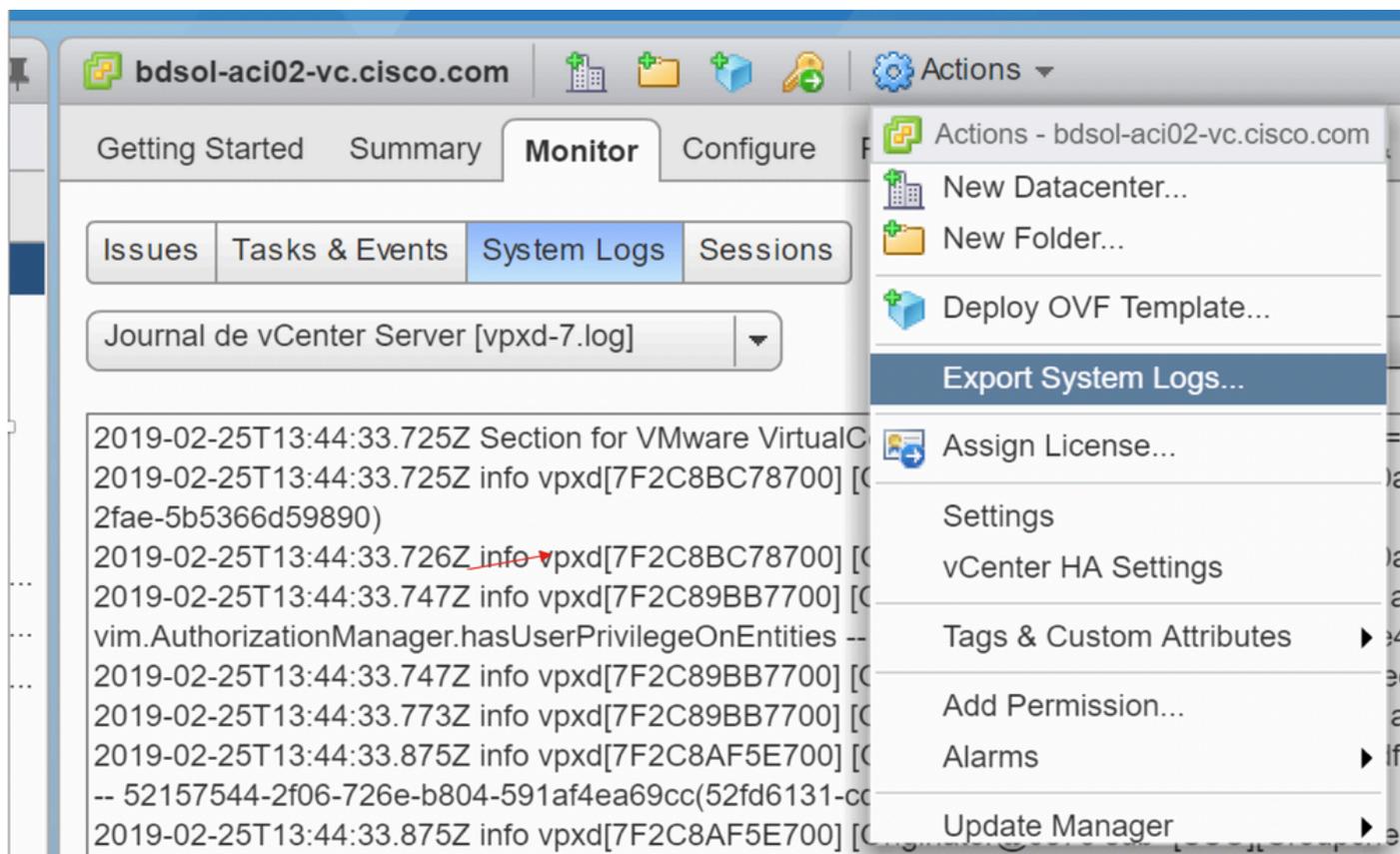
Generated /tmp/dbgexp_ave_sw-dvs-60_10.48.16.46_2019-0226-1408_logs.tgz

```
cisco-ave:tmp$ tar -tf dbgexp_ave_sw-dvs-60_10.48.16.46_2019-0226-1408_logs.tgz
dbgexp_ave_sw-dvs-60_10.48.16.46_2019-0226-1408_logs/
dbgexp_ave_sw-dvs-60_10.48.16.46_2019-0226-1408_logs/cisco-vemlog.txt
dbgexp_ave_sw-dvs-60_10.48.16.46_2019-0226-1408_logs/cisco-vem-support.txt
dbgexp_ave_sw-dvs-60_10.48.16.46_2019-0226-1408_logs/cisco-vemdp.txt
...
dbgexp_ave_sw-dvs-60_10.48.16.46_2019-0226-1408_logs/log/redis/
dbgexp_ave_sw-dvs-60_10.48.16.46_2019-0226-1408_logs/log/supervisor/
```

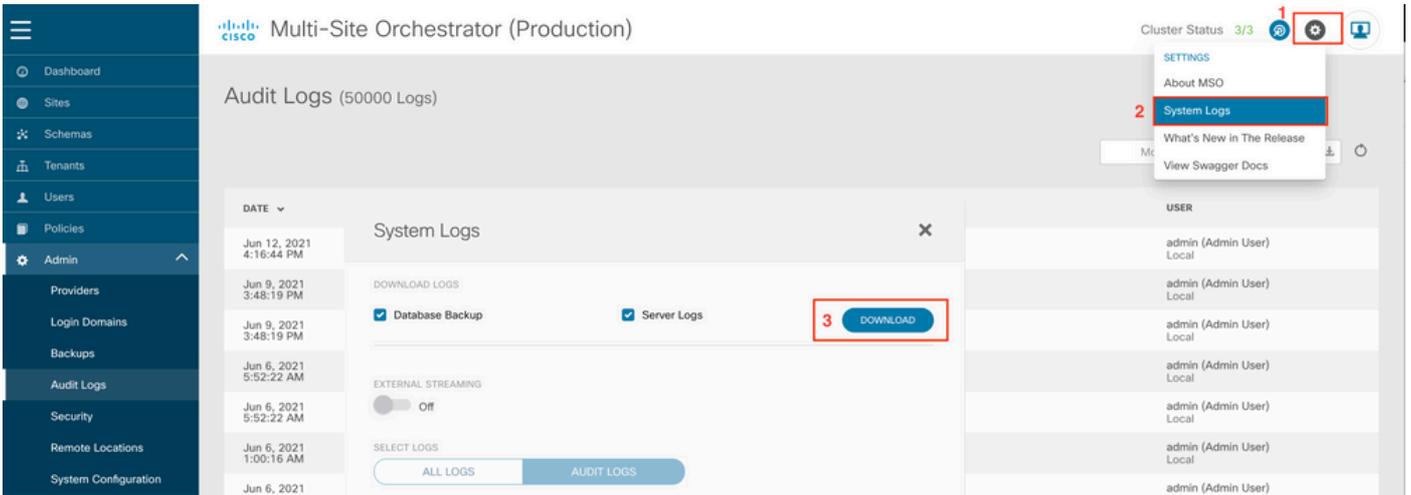
vCenter/ESXI Host Logs

Trigger via vCenter/ESXi UI

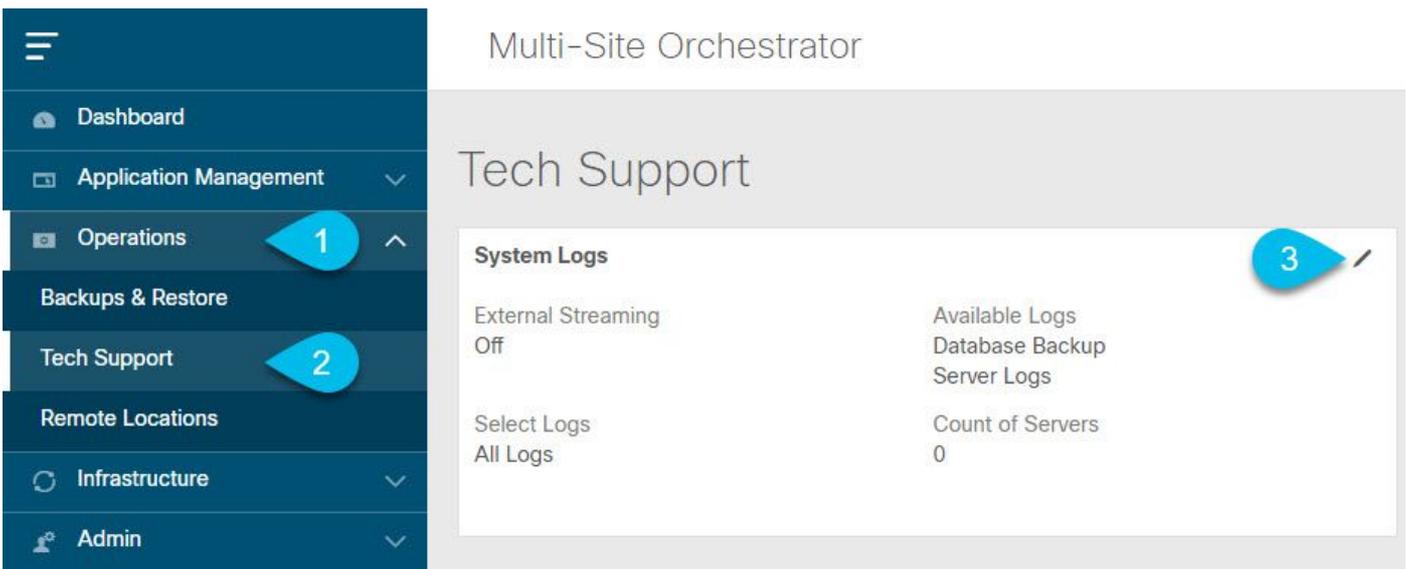
Vcenter and ESX host logs can be exported as shown in the screenshots below.



2. Select "System Logs" from the dropdown list
3. Click "DOWNLOAD" button from the pop up window

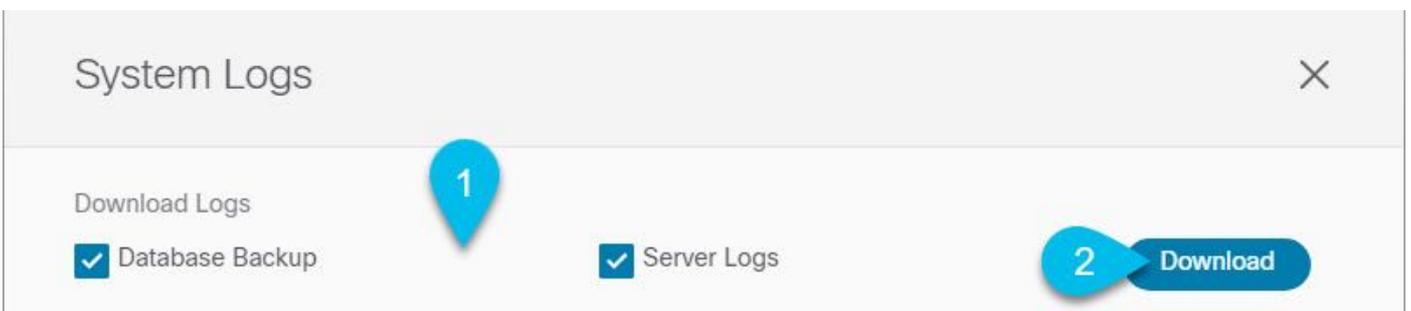


Trigger via NDO/MSO UI - MSO version 3.x and above



System Logs

1. From MSO GUI, In the main menu, Open the System Logs screen. Select Operations > Tech Support.
2. In the top right corner of the System Logs frame, click the edit button.



Upload

3. Select which logs you want to download.
4. Click the Download button.

An archive of the selected items is downloaded to your system. The report contains the following information: All schemas , sites definitions , tenants definitions , users definitions in JSON format. All logs of the containers in the infra_logs.txt file.

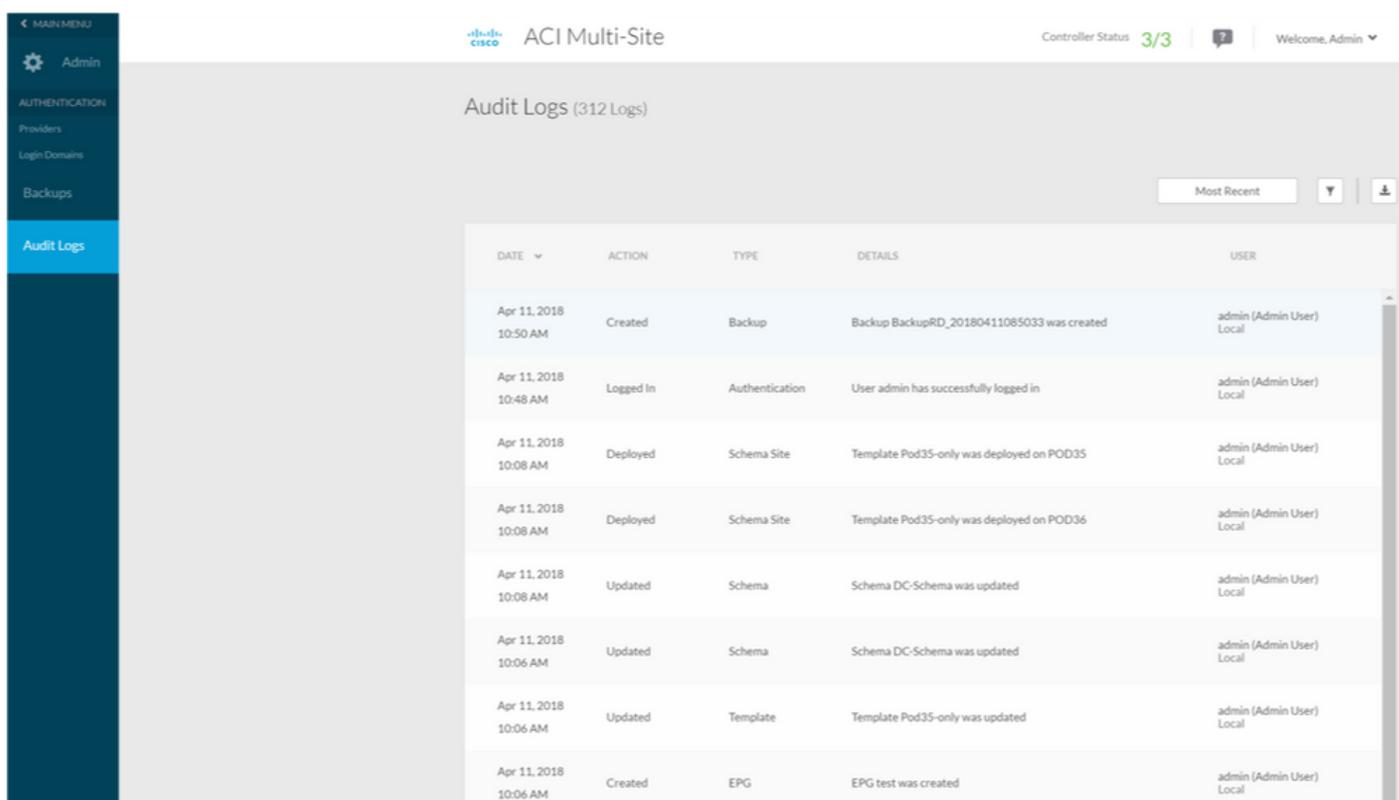
Stream via NDO/MSO UI - MSO version 3.x and above

The System Logs can be streamed to an External Analyzer. For more details on how to send the logs to an external log analyzer tool in real time, please refer the below link. <https://www.cisco.com/c/en/us/td/docs/dcn/mso/3x/configuration/cisco-aci-multi-site-configuration-guide-301/aci-multi-site-logs.html>

Standalone Audit Logs

Collection via NDO/MSO UI

MSC Audit Logs can be downloaded in JSON on CSV Format



DATE	ACTION	TYPE	DETAILS	USER
Apr 11, 2018 10:50 AM	Created	Backup	Backup BackupRD_20180411085033 was created	admin (Admin User) Local
Apr 11, 2018 10:48 AM	Logged In	Authentication	User admin has successfully logged in	admin (Admin User) Local
Apr 11, 2018 10:08 AM	Deployed	Schema Site	Template Pod35-only was deployed on POD35	admin (Admin User) Local
Apr 11, 2018 10:08 AM	Deployed	Schema Site	Template Pod35-only was deployed on POD36	admin (Admin User) Local
Apr 11, 2018 10:08 AM	Updated	Schema	Schema DC-Schema was updated	admin (Admin User) Local
Apr 11, 2018 10:06 AM	Updated	Schema	Schema DC-Schema was updated	admin (Admin User) Local
Apr 11, 2018 10:06 AM	Updated	Template	Template Pod35-only was updated	admin (Admin User) Local
Apr 11, 2018 10:06 AM	Created	EPG	EPG test was created	admin (Admin User) Local