

Troubleshooting Cisco NIR Application

This chapter contains the following sections:

- Troubleshooting Cisco NIR Common GUI Issues, on page 1
- Total Audit Logs, Events, and Faults, on page 2
- Basic Debugging Commands, on page 3

Troubleshooting Cisco NIR Common GUI Issues

The following are troubleshooting tips for GUI issues on Cisco NIR app in Cisco DCNM .

- The Cisco NIR app has the ability to display historical data. The specific time duration can be selected from the available calendar to see data within that particular time range.
- The majority of issues will be due to receiving data from the APIs other than what was expected. Opening the **Developer Tools Network** tab and repeating the last action will show the API data received. If the issue is with the APIs, then troubleshooting will need to continue on the backend.
- If the API requests and responses are accurate then check the **Developer Tools Console** tab for any errors.
- After initial installation the application needs time to start. During this time, the GUI may exhibit incomplete or unstable behavior. It is recommended to wait several minutes before starting to use the application.
- Take screenshots just before and just after reproducing an issue. The screenshots along with a full network capture saved as HAR with contents can be used to issue reports. If an issue report has a HAR recording attached then there is a significantly higher chance that the root cause can be identified and resolved quickly.
- If the Cisco NIR GUI page loads to a skeleton template with a spinner then this means almost none of the APIs are responding.
- If the Cisco NIR GUI page is taking a while to load fabrics then this means the fabrics.json API is not responding or not returning any fabrics.
- If the fabric anomaly score does not agree with reported anomalies, or the node counts are incorrect, then check the fabricsSummary.json response for the fabric anomalyScore value, and check the nodes.json response for the types and counts of nodes reported.

- If the expected fabrics are not shown in the fabric selection dropdown, first verify that they are not included in the fabrics.json response entries, then rerun setup and edit the data collection setup configuration to view the state of the configured fabrics. Make sure the appropriate fabrics are enabled and that no errors are reported. This data comes from the get_nir_fabrics request.
- For Flow Analytics issues make sure the following requirements are met:
 - The capability.json request is made when the GUI loads and returns true. If it returns false, it means the fabric does not support this feature.
 - Navigate to Application Settings tab and make sure Flow Collection has been enabled, the Management In-Band EPG has been selected, and verify the flow collection filters have been correctly configured.
 - To verify the MOs are using visore, navigate to **uni** > **fabric** > **flowcol** to check the configuration and check the classes telemetrySelector, telemetrySubnetFltGrp, and telemetrySubnetFilter.
 - Navigate to Collection Status tab and check if the nodes are returning flow telemetry.

Total Audit Logs, Events, and Faults

Faults

If faults occur within the application, they can be viewed from the Warning icon at the top-right of Application GUI screen next to the Settings icon.

Table 1: Total Audit Logs, Events, and Faults

Property	Description
Creation Time	The day and time of when the audit log, event, or fault instance occurred.

Property	Description
Severity	The current severity level of the event. The levels are:
	• Critical —A service-affecting condition that requires immediate corrective action. For example, this severity could indicate that the managed object is out of service and its capability must be restored.
	• Major —Serious problems exist with one or more components. These issues should be researched and fixed immediately.
	• Minor —Problems exist with one or more components that might adversely affect system performance. These issues should be researched and fixed as soon as possible before they become a critical problem.
	• Warning—Potential problems exist with one or more components that might adversely affect system performance if they are allowed to continue. These issues should be researched and fixed as soon as possible before they become a critical problem.
	• Info —A basic notification or informational message, possibly independently insignificant.
	• Cleared —A notification that the condition that caused the fault has been resolved, and the fault has been cleared.
Code	The code that helps to categorize and identify different types of fault instance objects.
Last Transition	The day and time on which the severity last changed. If the severity has not changed, this field displays the original creation date.
Description	Additional descriptive information on the audit log, event or fault.

Basic Debugging Commands

apic-ifc1 Scheduler [True] [True] [True]	<pre># acidiag s status: APIC-01 APIC-02 APIC-03</pre>	scheduler	status				
apic-ifc1#	ŧ acidiag s	scheduler	members				
ID	Name	Status	Address	OOBAddress	в Туре	Serial	NodeFqdn
1* a apic-ifc1. 2 a apic-ifc2. 3 a	apic-ifc1 .node.ifav2 apic-ifc2 .node.ifav2 apic-ifc3	active 22.apic.lo active 22.apic.lo active	10.0.0.1 Docal 10.0.0.2 Docal 10.0.0.3	172.1.2.3 172.4.5.6 172.7.8.9	Apic FCH1 Apic FCH Apic FCH	748V24D 1809V18S 1809V191	
apic-ifc3. apic-ifc1 apic-ifc1	.node.ifav2 # # acidiag s	22.apic.lo scheduler	appstatus				

Job	Туре	Status
Cisco NIR		
`-Cisco_NIR-ClusterService	service	running
`-Cisco_NIR-SystemService	system	running
bird_kafka		
`-bird_kafka-kafka	system	running
bird_kafkax		
`-bird_kafkax-kafka	system	running
bird_zk		
`-bird_zk-zk	service	running
elastic		
`-elastic-systemjob	system	running
elasticx		
`-elasticx-systemjob	system	running

apic-ifc1# acidiag scheduler appstatus bird_kafka

Container Modified	Group Image	Node	Status
he flee	hind he for he for he for		
kalka Od 19h 37m 16s	apic-svstem/kafka:0.1.0	apic-fics	running
kafka	bird kafka-kafka.kafka	apic-ifc1	running
0d 19h 37m 16s	apic-system/kafka:0.1.0		
kafka	bird_kafka-kafka.kafka	apic-ifc2	running
0d 19h 37m 16s	apic-system/kafka:0.1.0		

apic-ifc1# acidiag scheduler appstatus elastic

Container Modified	Group Image	Node	Status	
es	elastic-systemjob.db	apic-ifcl	running	
0d 19h 41m 8s	apic-system/elastic:v1			
es	elastic-systemjob.db	apic-ifc3	running	
1d 13h 2m 52s	apic-system/elastic:v1			
es	elastic-systemiob.db	apic-ifc2	running	
1d 13h 13m 15s	apic-system/elastic:v1	<u>.</u>	2	

apic-ifc1# acidiag scheduler appstatus Cisco_NIR

Container	Group	Node	Status
Modified	Image		

app-brain	Cisco_NIR-ClusterService.brain	apic-ifc2	running				
0d 18h 58m 53s							
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/brain:v1-0-1-827							
app-scheduler Od 18h 58m 54s	Cisco_NIR-ClusterService.scheduler	apic-ifc1	running				
local-docker-repo/cis	sco-nir/aci-docker-reg-cisco-com/telemet:	y/scheduler:v1-	0-1-827				
app-correlator	Cisco_NIR-ClusterService.correlator	apic-ifc3	running				
0d 18h 58m 53s							
local-docker-repo/cis	sco-nir/aci-docker-reg-cisco-com/telemet:	y/correlator:v1	-0-1-827				
app-predictor	Cisco_NIR-ClusterService.predictor	apic-ifc3	running				
0d 18h 58m 53s							
local-docker-repo/cis	sco-nir/aci-docker-reg-cisco-com/telemet:	y/predictor:v1-	0-1-827				
app-apicagent	Cisco_NIR-ClusterService.apicagent	apic-ifc2	running				
0d 18h 58m 54s							
local-docker-repo/cis	sco-nir/aci-docker-reg-cisco-com/telemet:	v/apicagent:v1-	J-1-827				

green open

1807463

0 6.1kb

0 747.1mb

green open cisco nir-statsdb-000003

cisco_nir-sysmetrics-2019.01.31

```
app-logstash
                    Cisco NIR-SystemService.logstash
                                                           apic-ifc1
                                                                         running
0d 18h 59m 4s
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/logstash:v1-0-1-827
app-eventcollector Cisco NIR-SystemService.eventcollector apic-ifc3
                                                                        running
0d 18h 59m 5s
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/eventcollector:v1-0-1-827
app-eventcollector Cisco NIR-SystemService.eventcollector apic-ifc1 running
0d 18h 59m 4s
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/eventcollector:v1-0-1-827
                 Cisco_NIR-SystemService.logstash
app-logstash
                                                           apic-ifc2 running
0d 18h 59m 5s
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/logstash:v1-0-1-827
app-apiserver
                   Cisco NIR-SystemService.apiserver
                                                           apic-ifc2
                                                                        running
0d 18h 59m 4s
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/apiserver:v1-0-1-827
                 Cisco NIR-SystemService.apiserver
app-apiserver
                                                           apic-ifc1 running
0d 18h 59m 5s
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/apiserver:v1-0-1-827
                Cisco NIR-SystemService.logstash
app-logstash
                                                           apic-ifc3
                                                                        running
0d 18h 59m 4s
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/logstash:v1-0-1-827
                Cisco NIR-SystemService.apiserver
app-apiserver
                                                           apic-ifc3
                                                                     running
0d 18h 59m 4s
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/apiserver:v1-0-1-827
app-eventcollector Cisco NIR-SystemService.eventcollector apic-ifc2
                                                                        running
0d 18h 59m 4s
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/eventcollector:v1-0-1-827
apic-ifc1#
apic-ifc1# acidiag scheduler elastic members
ip
     heap.percent ram.percent cpu load 1m load 5m load 15m node.role master name
                26
10.0.0.3
                        99 20 4.88 4.40 3.49 mdi - apic-ifc3
10.0.0.1
                 2.6
                             91 19
                                       3.04
                                              3.75
                                                      3.56 mdi
                                                                     _
                                                                           apic-ifc1
10.0.0.2
                 2.6
                             88 19
                                      0.97
                                             1.77
                                                       2.05 mdi
                                                                     *
                                                                          apic-ifc2
apic-ifc1# acidiag scheduler elastic health
{
 "cluster name" : "elasticsearch",
  "status" : "green",
  "timed out" : false,
  "number of nodes" : 3,
  "number_of_data_nodes" : 3,
  "active_primary_shards" : 120,
  "active shards" : 360,
  "relocating shards" : 0,
  "initializing shards" : 0,
  "unassigned_shards" : 0,
  "delayed unassigned shards" : 0,
  "number of pending tasks" : 0,
  "number of_in_flight_fetch" : 0,
  "task max waiting in queue millis" : 0,
  "active shards percent as number" : 100.0
}
apic-ifc1# acidiag scheduler elastic indices
health status index
                                                   uuid
                                                                         pri rep
docs.count docs.deleted store.size pri.store.size
                                                   B8X8lktsSnWzCckzms8JfQ 1
green open cisco nir-fabricnodesdb
                                                                               2
              0 182.7kb
                                     61 k b
  16
green open
             cisco nir-aqqflowdb-2019.01.31.18.00.00 RnIB3S7fTBik007xPhquFw 9
                                                                               2
```

2kb

249.1mb

HBP iJgsRQyGTyOa-Horvg 7

Sgh1bZ7CQ et4j AQ56Ww 5

2

greenopencisco_nir-eventsdbtJTC02wpSmy_9Fa8p33WDg522940025.4mb8.4mb9nSh8NeqSYKYF7w4W0eHkQ1greenopensearchguard9nSh8NeqSYKYF7w4W0eHkQ1	2 2 2
22940 0 25.4mb 8.4mb green open searchguard 9nSh8NeqSYKYF7w4W0eHkQ 1	2 2
green open searchguard 9nSh8NeqSYKYF7w4W0eHkQ 1	2 2
	2
5 2 65.1KD 21.7KD	2
green open cisco_nir-statsdb-000002 Zv9P247tSfyK_6o37NGkjg 5	
9494058 0 2.9gb 999.5mb	
green open cisco_nir-fault_historydb mUY-NT21QqmP54flD44xzg 5	2
2405 0 4.3mb 1.4mb	
green open cisco_nir-collectorstatsdb 6RrCkrhxT6OWz-M8eIfjrw 5	2
0 0 3.4kb 1.1kb	
green open cisco_nir-sysmetrics-2019.01.30 wz3Jif_8SMOhc4Or8MEXNg 7	2
41870 0 19.2mb 6.4mb	
green open cisco_nir-fabric_issuesdb tj-Y0cP4SF2OdfMkumqcqQ 2	2
0 0 1.3kb 466b	
green open cisco_nir-anomalytsdb rzGukbWCTk276i2FQpRCJQ 3	2
1 0 24.9kb 8.3kb	
green open cisco_nir-aggflowdb-2019.01.31.12.00.00 hVUmPx5JQJ19gtiEB4no_A 9	2
	0
green open cisco_nir-resourcecollectab kDTBYxqURtSpUtzxkFgVWw 3	2
168380 U 38.1mb 12.7mb	0
green open cisco_nir-resourcescoresdb ApM3S1QEQ3m9co-Uex-tvQ 3	2
38120 U 29.4mb 9.8mb	0
green open cisco_nir-aggilowdb-2019.01.31.16.00.00 idak2vNvS2eVqEFlukFkcg 9	2
	2
green open CISCO_nIF-eprecordsdb JIZHOOFPQWShJerCallGyA 5	2
U U S.4KD LIKD	2
green open crsco_introcatsub-00004 pqinaq050100E0y12Bwiwig 5	2
arean open cisco pir-sarflowdb-2019 01 31 14 00 00 C6upgISoOzunlodMCDIIso 9	2
	2
green open cisco pir-licensedh 270000000fan02/AAVnEVg 1	2
1 0 10 2kb 3 4kb	4
areen open cisco nir-agaflowdb-2019 01 31 20 00 00 ZOdMl2vxSaaNCdGXW-4YOg 9	2
0 0 6 1kb 2kb	4
areen open cisco nir-agaflowdb-2019 01 31 10 00 00 btoly900Teaky2AdK 6n-A 9	2
	2
areen open cisco nir-anomaludh OrHtrk2LSZ-LNSS37E0bt0 3	2
1 0 23 5kb 7 8kb	2
1 0 25.5kb 1.5kb	
apic-ifc1# acidiag scheduler elastic shards	
shard prirep state docs store in	node
cisco nir-sysmetrics-2019 01.30 4 r STARTED 5914 924 5kb 10 0	.0.3
ifav2-ifa3	
cisco nir-sysmetrics-2019.01.30 4 p STARTED 5914 928.9kb 10.0	.0.2

ifav22-ifc3								
cisco_nir-sysmetrics-2019.01.3	30	4	р	STARTED	5914	928.9kb	10.0.0.2	
ifav22-ifc2								
cisco_nir-sysmetrics-2019.01.3	30	4	r	STARTED	5914	899.8kb	10.0.0.1	
ifav22-ifc1								
cisco_nir-sysmetrics-2019.01.3	30	1	r	STARTED	6033	920.7kb	10.0.0.3	
ifav22-ifc3								
cisco_nir-sysmetrics-2019.01.3	30	1	р	STARTED	6033	954.1kb	10.0.0.2	
ifav22-ifc2								
cisco_nir-sysmetrics-2019.01.3	30	1	r	STARTED	6033	982.7kb	10.0.0.1	
ifav22-ifc1								
cisco_nir-sysmetrics-2019.01.3	30	2	r	STARTED	6070	944.1kb	10.0.0.3	
ifav22-ifc3								
cisco_nir-sysmetrics-2019.01.3	30	2	r	STARTED	6070	914.2kb	10.0.0.2	
ifav22-ifc2								
cisco_nir-sysmetrics-2019.01.3	30	2	р	STARTED	6070	951.1kb	10.0.0.1	
ifav22-ifc1								
cisco_nir-sysmetrics-2019.01.3	30	6	р	STARTED	5923	961.2kb	10.0.0.3	
ifav22-ifc3								
cisco_nir-sysmetrics-2019.01.3	30	6	r	STARTED	5923	944.4kb	10.0.0.2	
ifav22-ifc2								

cisco_nir-sysmetrics-2019.01.30	6	r	STARTED	5923	958.8kb	10.0.0.1
ifav22-ifc1						
cisco_nir-sysmetrics-2019.01.30	3	р	STARTED	5962	954.4kb	10.0.0.3
ifav22-ifc3						
cisco nir-sysmetrics-2019.01.30	3	r	STARTED	5962	911.1kb	10.0.0.2
ifav22-ifc2						
cisco nir-sysmetrics-2019.01.30	3	r	STARTED	5962	926.3kb	10.0.0.1
ifav22-ifc1						
cisco nir-sysmetrics-2019.01.30	5	r	STARTED	6003	937.9kb	10.0.0.3
ifav22-ifc3						
cisco nir-sysmetrics-2019.01.30	5	r	STARTED	6003	931.6kb	10.0.0.2
ifav22-ifc2						
cisco nir-sysmetrics-2019.01.30	5	р	STARTED	6003	912kb	10.0.0.1
ifav22-ifc1						
cisco nir-sysmetrics-2019.01.30	0	р	STARTED	5965	947.9kb	10.0.0.3
ifav22-ifc3						
cisco nir-sysmetrics-2019.01.30	0	r	STARTED	5965	909.2kb	10.0.0.2
ifav22-ifc2						
cisco nir-sysmetrics-2019.01.30	0	r	STARTED	5965	966.8kb	10.0.0.1
ifav22-ifc1						

<-- SNIP LIST OF ALL OTHER RESOURCES --> apic-ifc1#