



Troubleshooting Cisco NIR Application

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Cisco NIR Application on Cisco APIC Troubleshooting Commands

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	<p>The current severity level of the event. The levels are:</p> <ul style="list-style-type: none"> • 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# acidiag scheduler status
```

```
Scheduler status:
[True]    APIC-01
[True]    APIC-02
[True]    APIC-03
```

```
apic-ifc1# acidiag scheduler members
```

ID	Name	Status	Address	OOBAddress	Type	Serial	NodeFqdn
1*	apic-ifc1	active	10.0.0.1	172.1.2.3	Apic	FCH1748V24D	
	apic-ifc1.node.ifav22.apic.local						
2	apic-ifc2	active	10.0.0.2	172.4.5.6	Apic	FCH1809V18S	
	apic-ifc2.node.ifav22.apic.local						
3	apic-ifc3	active	10.0.0.3	172.7.8.9	Apic	FCH1809V191	
	apic-ifc3.node.ifav22.apic.local						

```
apic-ifc1#
```

```
apic-ifc1# acidiag scheduler appstatus
```

```
Job                                Type                                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
kafka 0d 19h 37m 16s	bird_kafka-kafka.kafka apic-system/kafka:0.1.0	apic-ifc3	running
kafka 0d 19h 37m 16s	bird_kafka-kafka.kafka apic-system/kafka:0.1.0	apic-ifc1	running
kafka 0d 19h 37m 16s	bird_kafka-kafka.kafka apic-system/kafka:0.1.0	apic-ifc2	running

apic-ifc1# **acidiag scheduler appstatus elastic**

Container Modified	Group Image	Node	Status
es 0d 19h 41m 8s	elastic-systemjob.db apic-system/elastic:v1	apic-ifc1	running
es 1d 13h 2m 52s	elastic-systemjob.db apic-system/elastic:v1	apic-ifc3	running
es 1d 13h 13m 15s	elastic-systemjob.db apic-system/elastic:v1	apic-ifc2	running

apic-ifc1# **acidiag scheduler appstatus Cisco_NIR**

Container Modified	Group Image	Node	Status
app-brain 0d 18h 58m 53s	Cisco_NIR-ClusterService.brain local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/brain:v1-0-1-827	apic-ifc2	running
app-scheduler 0d 18h 58m 54s	Cisco_NIR-ClusterService.scheduler local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/scheduler:v1-0-1-827	apic-ifc1	running
app-correlator 0d 18h 58m 53s	Cisco_NIR-ClusterService.correlator local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/correlator:v1-0-1-827	apic-ifc3	running
app-predictor 0d 18h 58m 53s	Cisco_NIR-ClusterService.predictor local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/predictor:v1-0-1-827	apic-ifc3	running
app-apicagent 0d 18h 58m 54s	Cisco_NIR-ClusterService.apicagent local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/apicagent:v1-0-1-827	apic-ifc2	running
app-logstash 0d 18h 59m 4s	Cisco_NIR-SystemService.logstash	apic-ifc1	running

```

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
app-logstash Cisco_NIR-SystemService.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
app-apiserver Cisco_NIR-SystemService.apiserver apic-ifc1 running
0d 18h 59m 5s
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/apiserver:v1-0-1-827
app-logstash Cisco_NIR-SystemService.logstash apic-ifc3 running
0d 18h 59m 4s
local-docker-repo/cisco-nir/aci-docker-reg-cisco-com/telemetry/logstash:v1-0-1-827
app-apiserver Cisco_NIR-SystemService.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# **acdiag scheduler elastic members**

ip	heap.percent	ram.percent	cpu	load_1m	load_5m	load_15m	node.role	master	name
10.0.0.3	26	99	20	4.88	4.40	3.49	mdi	-	apic-ifc3
10.0.0.1	26	91	19	3.04	3.75	3.56	mdi	-	apic-ifc1
10.0.0.2	26	88	19	0.97	1.77	2.05	mdi	*	apic-ifc2

apic-ifc1# **acdiag 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# **acdiag scheduler elastic indices**

health	status	index	uuid	pri	rep
docs.count	docs.deleted	store.size	pri.store.size		
green	open	cisco_nir-fabricnodesdb	B8X81ktsSnWzCckzms8JfQ	1	2
16	0	182.7kb	61kb		
green	open	cisco_nir-aggfldb-2019.01.31.18.00.00	RnIB3S7fTBik007xPhquFw	9	2
0	0	6.1kb	2kb		
green	open	cisco_nir-sysmetrics-2019.01.31	HBP_iJgsRQyGTyOa-Horvg	7	2
1807463	0	747.1mb	249.1mb		
green	open	cisco_nir-statsdb-000003	Sgh1bZ7CQ_et4j_AQ56Ww	5	2
9517896	0	2.9gb	998.8mb		
green	open	cisco_nir-eventsdb	tJTC02wpSmy_9Fa8p33WDg	5	2

22940		0	25.4mb	8.4mb					
green	open	searchguard			9nSh8NeqSYKYF7w4W0eHkQ	1	2		
5		2	65.1kb	21.7kb					
green	open	cisco_nir-statsdb-000002			Zv9P247tSfyK_6o37NGkjg	5	2		
9494058		0	2.9gb	999.5mb					
green	open	cisco_nir-fault_historydb			mUY-NT2lQqMP54f1D44xzg	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			hVUmPx5JQJi9gtiEB4no_A	9	2		
0		0	6.1kb	2kb					
green	open	cisco_nir-resourcecollectdb			kDTBYxq0RtSp0tzXkFgVWw	3	2		
168380		0	38.1mb	12.7mb					
green	open	cisco_nir-resourcescoresdb			ApM3S1QEQ3m9co-UeX-tvQ	3	2		
38120		0	29.4mb	9.8mb					
green	open	cisco_nir-aggflowdb-2019.01.31.16.00.00			fdaRZvNVS2eVqEFluRFKcg	9	2		
0		0	6.1kb	2kb					
green	open	cisco_nir-eprecordsdb			JIZHooPPQwShJeFCa1lGyA	5	2		
0		0	3.4kb	1.1kb					
green	open	cisco_nir-statsdb-000004			pqhaqo30Tv6E6y1zBwfwYg	5	2		
1539566		0	507.6mb	170.8mb					
green	open	cisco_nir-aggflowdb-2019.01.31.14.00.00			G6yngLSOqZyn1oMCDLIaQ	9	2		
0		0	6.1kb	2kb					
green	open	cisco_nir-licensedb			87XBQmQHRfap024AAXnEXg	1	2		
1		0	10.2kb	3.4kb					
green	open	cisco_nir-aggflowdb-2019.01.31.20.00.00			ZQdM12yxSaaNCdGXW-4YOg	9	2		
0		0	6.1kb	2kb					
green	open	cisco_nir-aggflowdb-2019.01.31.10.00.00			bt01x9A0Teakv2AdK_6n-A	9	2		
0		0	6.1kb	2kb					
green	open	cisco_nir-anomalydb			QrHtrk2LSZ-LNsS37E0btQ	3	2		
1		0	23.5kb	7.8kb					

apic-ifc1# **acidiag scheduler elastic shards**

index	shard	prirep	state	docs	store	ip	node
cisco_nir-sysmetrics-2019.01.30	4	r	STARTED	5914	924.5kb	10.0.0.3	
ifav22-ifc3							
cisco_nir-sysmetrics-2019.01.30	4	p	STARTED	5914	928.9kb	10.0.0.2	
ifav22-ifc2							
cisco_nir-sysmetrics-2019.01.30	4	r	STARTED	5914	899.8kb	10.0.0.1	
ifav22-ifc1							
cisco_nir-sysmetrics-2019.01.30	1	r	STARTED	6033	920.7kb	10.0.0.3	
ifav22-ifc3							
cisco_nir-sysmetrics-2019.01.30	1	p	STARTED	6033	954.1kb	10.0.0.2	
ifav22-ifc2							
cisco_nir-sysmetrics-2019.01.30	1	r	STARTED	6033	982.7kb	10.0.0.1	
ifav22-ifc1							
cisco_nir-sysmetrics-2019.01.30	2	r	STARTED	6070	944.1kb	10.0.0.3	
ifav22-ifc3							
cisco_nir-sysmetrics-2019.01.30	2	r	STARTED	6070	914.2kb	10.0.0.2	
ifav22-ifc2							
cisco_nir-sysmetrics-2019.01.30	2	p	STARTED	6070	951.1kb	10.0.0.1	
ifav22-ifc1							
cisco_nir-sysmetrics-2019.01.30	6	p	STARTED	5923	961.2kb	10.0.0.3	
ifav22-ifc3							
cisco_nir-sysmetrics-2019.01.30	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      p      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      p      STARTED      6003  912kb 10.0.0.1
ifav22-ifc1
cisco_nir-sysmetrics-2019.01.30      0      p      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#
```