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## How to configure ScaleArc SNMP

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# How to configure ScaleArc SNMP

Release	Document Status	DB Platform	Categories
All	ScaleArc	All	snmp



QUESTION

SNMP, Simple Network Management Protocol, used by many Enterprises for system health monitoring. Customers may monitor ScaleArc health and system performance with the use

of SNMP.



ANSWER

SNMP access to ScaleArc is enabled by default. In ScaleArc 3.10 and higher, the default read-only community string is "ScaleArc". In ScaleArc versions prior to 3.10, the default read only community string is "public". ScaleArc supports SNMP versions up to 2c. The

information available from the ScaleArc appliance includes the following counters:

Linux System Counters

ScaleArc System Monitoring Counters

ScaleArc Cluster Monitoring counters

ScaleArc Clusters Information

ScaleArc Database Information





The values returned from each OID that provides changing data are updated on a default 5 second interval. This interval can be changed by modifying the `/opt/idb/conf/idb_snmp.conf`

file. The configuration file is formatted as follows:

```
[general]  
sleep = 5
```

Modifying the "sleep" value will alter the number of seconds between each iteration of the

SNMP agent collecting statistics from the ScaleArc core process.

The ScaleArc specific counters are described in the IDB-MIB located at `/usr/share/snmp/mibs/IDB-MIB.txt` on the ScaleArc appliance. Following common SNMP

commands can be used to query the available counters:

snmpget

snmpwalk

snmpbulkget

snmpbulkwalk









**Following are example usages of these commands**

snmpget

```
snmpget -v2c -c public <IP> IDB-MIB::sysCpuUsageLoadBalancer.0
```

```
snmpget -v2c -c ScaleArc <IP> IDB-MIB::sysCpuUsageLoadBalancer.0 (from 3.10  
onwards)
```

This command should be run on every individual counter.

snmpwalk

```
snmpwalk -v2c -c public <IP> IDB-MIB::systemStatsData
```

```
snmpwalk -v2c -c ScaleArc <IP> IDB-MIB::systemStatsData (from 3.10 onwards)
```

This command should be run on every table.

snmpbulkget



```
snmpbulkget -v2c -c public <IP> IDB-MIB::systemStatsData
```

```
snmpbulkget -v2c -c ScaleArc <IP> IDB-MIB::systemStatsData (from 3.10 onwards)
```

This command should be run on every table.

snmpbulkwalk

```
snmpbulkwalk -v2c -c public <IP> IDB-MIB::systemStatsData
```

```
snmpbulkwalk -v2c -c ScaleArc <IP> IDB-MIB::systemStatsData (from 3.10 onwards)
```

This command should be run on every table.







**List of tables are:**

systemStatsData

clusterInfoTable

clusterStatTable

clusterDatabasesInfoTable













## List of Available ScaleArc OID's

OID (doted format)	OID (text format)	DESCRIPTION OF OID	RANGE OF VALUES	CONTENT (example)
.1.3.6.1.4.1.42134.1	jobData	root MIB	n/a	n/a
.1.3.6.1.4.1.42134.1.1.1.1.0	sysCpuUsageLoadBalancer	Load Balancer CPU usage percentage	Integer32	55 Percentage
.1.3.6.1.4.1.42134.1.1.1.2.0	sysCpuUsageCache	Cache CPU usage percentage	Integer32	40 Percentage
.1.3.6.1.4.1.42134.1.1.1.3.0	sysCpuUsageQueries	Queries CPU usage percentage	Integer32	49 Percentage
.1.3.6.1.4.1.42134.1.1.1.4.0	sysCpuUsageConnections	Connections CPU usage percentage	Integer32	50 Percentage
.1.3.6.1.4.1.42134.1.1.1.5.0	sysBandwidthInbound	Inbound bandwidth usage	Integer32	5 Mb
.1.3.6.1.4.1.42134.1.1.1.6.0	sysBandwidthOutbound	Outbound bandwidth usage	Integer32	15 Mb
.1.3.6.1.4.1.42134.1.1.1.7.0	sysConnectionsClient	Client connections count	Integer32	200 Units
.1.3.6.1.4.1.42134.1.1.1.8.0	sysConnectionsServer	Server connections count	Integer32	200 Units
.1.3.6.1.4.1.42134.1.1.1.9.0	sysConnectionsReadQueue	Read Queue connections count	Integer32	100 Units

1.3.6.1.4.1.42134.1.1.1.10.0	sysConnectionsWriteQueue	Write Queue connections count	Integer32	100 Units
1.3.6.1.4.1.42134.1.1.1.11.0	sysConnectionsPersistent	Persistent connections count	Integer32	100 Units
1.3.6.1.4.1.42134.1.1.1.12.0	sysConnectionsError	Error connections count	Integer32	100 Units
1.3.6.1.4.1.42134.1.1.1.13.0	sysCacheUsage	Total cache usage of ScaleArc system	Integer32	1000 MB
1.3.6.1.4.1.42134.1.1.1.14.0	sysReadQueries	Total read queries count on ScaleArc system	Integer32	1000 Units
1.3.6.1.4.1.42134.1.1.1.15.0	sysWriteQueries	Total read queries count on ScaleArc system	Integer32	1000 Units
1.3.6.1.4.1.42134.1.1.1.16.0	sysBlockQueries	Total block queries count	Integer32	10 Units
1.3.6.1.4.1.42134.1.1.1.17.0	sysErrorQueries	Total error queries count	Integer32	10 Units
clusterInfoTable Fields - This table contains cluster information. Information for each cluster is accessed using the index.				
1.3.6.1.4.1.42134.1.2.1.1.1	clusterId	Cluster Id of cluster	Integer32	1
1.3.6.1.4.1.42134.1.2.1.1.2	clusterName	Cluster name for corresponding to cluster id.	DisplayString	Test_123
1.3.6.1.4.1.42134.1.2.1.1.3	clusterInboundIP	Inbound IP address of a cluster	DisplayString	10.0.37.1
1.3.6.1.4.1.42134.1.2.1.1.4	clusterInboundPort	Inbound Port of a cluster	Integer32	3306
1.3.6.1.4.1.42134.1.2.1.1.5	clusterOutboundIP	Outbound IP address of a cluster	DisplayString	10.0.37.10
1.3.6.1.4.1.42134.1.2.1.1.6	clusterReadWriteSplit	Read Write Split value of a cluster	DisplayString	on or off
1.3.6.1.4.1.42134.1.2.1.1.7	clusterIbType	Cluster Ib type	DisplayString	Dynamic
1.3.6.1.4.1.42134.1.2.1.1.8	clusterAnalyticsStatus	Status of analytics flag for a cluster. It depicts whether analytics has been enabled or not.	TruthValue	true or false
1.3.6.1.4.1.42134.1.2.1.1.9	clusterStarted	This field depicts whether cluster is running or stopped.	DisplayString	yes or no
clusterStatsTable - Statistics about cluster. This table has counters of system as well as for a cluster.				
1.3.6.1.4.1.42134.1.2.2.1.1	clid	Cluster Id of a cluster	Integer32	1
1.3.6.1.4.1.42134.1.2.2.1.2	clusterConnectionsClient	Client connection count for a cluster	Integer32	100 Units
1.3.6.1.4.1.42134.1.2.2.1.3	clusterConnectionsServer	Server connections count for a cluster	Integer32	101 Units
1.3.6.1.4.1.42134.1.2.2.1.4	clusterConnectionsReadQueue	Read Queue Connections count for a cluster	Integer32	100 Units
1.3.6.1.4.1.42134.1.2.2.1.5	clusterConnectionsWriteQueue	Write Queue Connections count for a cluster	Integer32	200 Units
1.3.6.1.4.1.42134.1.2.2.1.6	clusterConnectionsPersistent	Persistent connections count for a cluster	Integer32	100 Units
1.3.6.1.4.1.42134.1.2.2.1.7	clusterConnectionsError	Error connections count for a cluster	Integer32	150 Units
1.3.6.1.4.1.42134.1.2.2.1.8	clusterCacheUsage	Cache usage for a cluster	Integer32	100 MB
1.3.6.1.4.1.42134.1.2.2.1.9	clusterCacheHitRate	Cache Hit Rate percentage	Integer32	50 Percentage
1.3.6.1.4.1.42134.1.2.2.1.10	clusterReadQueries	Read Queries count for a cluster	Integer32	50 Units
1.3.6.1.4.1.42134.1.2.2.1.11	clusterWriteQueries	Write Queries count for a cluster	Integer32	100 Units
1.3.6.1.4.1.42134.1.2.2.1.12	clusterBlockQueries	Block Queries count for a cluster	Integer32	100 Units
1.3.6.1.4.1.42134.1.2.2.1.13	clusterErrorQueries	Error Queries count for a cluster	Integer32	0 Units
1.3.6.1.4.1.42134.1.2.3.1.1	clsid	Cluster Id	Integer32	1
1.3.6.1.4.1.42134.1.2.3.1.2	serverId	Server ID corresponding to cluster id	Integer32	1
1.3.6.1.4.1.42134.1.2.3.1.3	serverIP	Server IP address	DisplayString	10.0.0.101
1.3.6.1.4.1.42134.1.2.3.1.4	serverPort	Server Port Number	Integer32	3306
1.3.6.1.4.1.42134.1.2.3.1.5	serverOnline	Server online or offline field	BooleanValue	true
1.3.6.1.4.1.42134.1.2.3.1.6	serverRole	Server role can be Read - Read + Write etc.	DisplayString	Read
1.3.6.1.4.1.42134.1.2.3.1.7	serverMaxConcurrentConnections	Maximum concurrent connection count	Integer32	100
1.3.6.1.4.1.42134.1.2.3.1.8	serverIdleConnectionTimeout	Idle connection timeout with database server	Integer32	3
1.3.6.1.4.1.42134.1.2.3.1.9	serverStatus	Status of a server	DisplayString	on















# Examples

```
[01:49:35] [../ScaleArc/SNMP]: snmpwalk -c public -v 2c -m ./IDB-  
MIB.txt 172.31.22.87 clusterInfoTable  
IDB-MIB::clusterInfoEntry = INTEGER: 0  
IDB-MIB::clusterId = INTEGER: 0  
IDB-MIB::clusterId.1 = INTEGER: 17  
IDB-MIB::clusterId.2 = INTEGER: 33  
IDB-MIB::clusterName = STRING: 0  
IDB-MIB::clusterName.1 = STRING: test  
IDB-MIB::clusterName.2 = STRING: AlwaysOn  
IDB-MIB::clusterInboundIP = STRING: 0  
IDB-MIB::clusterInboundIP.1 = STRING: 172.31.22.89  
IDB-MIB::clusterInboundIP.2 = STRING: 172.31.22.89  
IDB-MIB::clusterInboundPort = INTEGER: 0  
IDB-MIB::clusterInboundPort.1 = INTEGER: 1444  
IDB-MIB::clusterInboundPort.2 = INTEGER: 1433  
IDB-MIB::clusterOutboundIP = STRING: 0
```

IDB-MIB::clusterOutboundIP.1 = STRING: 172.31.22.89  
IDB-MIB::clusterOutboundIP.2 = STRING: 172.31.22.89  
IDB-MIB::clusterReadWriteSplit = STRING: 0  
IDB-MIB::clusterReadWriteSplit.1 = STRING: on  
IDB-MIB::clusterReadWriteSplit.2 = STRING: on  
IDB-MIB::clusterlbType = STRING: 0  
IDB-MIB::clusterlbType.1 = STRING: Dynamic  
IDB-MIB::clusterlbType.2 = STRING: Dynamic  
IDB-MIB::clusterAnalyticsStatus = INTEGER: 0  
IDB-MIB::clusterAnalyticsStatus.1 = INTEGER: true(1)  
IDB-MIB::clusterAnalyticsStatus.2 = INTEGER: true(1)  
IDB-MIB::clusterStarted = STRING: 0  
IDB-MIB::clusterStarted.1 = STRING: yes  
IDB-MIB::clusterStarted.2 = STRING: yes  
[01:50:07] [../ScaleArc/SNMP]:





```
[01:50:07] [../ScaleArc/SNMP]: snmpwalk -c public -v 2c -m ./IDB-  
MIB.txt 172.31.22.87 clusterDatabasesInfoTable  
IDB-MIB::clusterDatabasesInfoEntry = INTEGER: 0  
IDB-MIB::clsId = INTEGER: 0  
IDB-MIB::clsId.1 = INTEGER: 17  
IDB-MIB::clsId.2 = INTEGER: 17  
IDB-MIB::clsId.3 = INTEGER: 33  
IDB-MIB::clsId.4 = INTEGER: 33  
IDB-MIB::clsId.5 = INTEGER: 33  
IDB-MIB::serverId = INTEGER: 0  
IDB-MIB::serverId.1 = INTEGER: 1  
IDB-MIB::serverId.2 = INTEGER: 2  
IDB-MIB::serverId.3 = INTEGER: 1  
IDB-MIB::serverId.4 = INTEGER: 2  
IDB-MIB::serverId.5 = INTEGER: 3  
IDB-MIB::serverIP = STRING: 0
```

IDB-MIB::serverIP.1 = STRING: mssql141  
IDB-MIB::serverIP.2 = STRING: mssql142  
IDB-MIB::serverIP.3 = STRING: MSSQL141  
IDB-MIB::serverIP.4 = STRING: MSSQL142  
IDB-MIB::serverIP.5 = STRING: MSSQL143  
IDB-MIB::serverPort = INTEGER: 0  
IDB-MIB::serverPort.1 = INTEGER: 1433  
IDB-MIB::serverPort.2 = INTEGER: 1433  
IDB-MIB::serverPort.3 = INTEGER: 1433  
IDB-MIB::serverPort.4 = INTEGER: 1433  
IDB-MIB::serverPort.5 = INTEGER: 1433  
IDB-MIB::serverOnline = INTEGER: 0  
IDB-MIB::serverOnline.1 = INTEGER: true(1)  
IDB-MIB::serverOnline.2 = INTEGER: true(1)  
IDB-MIB::serverOnline.3 = INTEGER: true(1)  
IDB-MIB::serverOnline.4 = INTEGER: true(1)  
IDB-MIB::serverOnline.5 = INTEGER: true(1)  
IDB-MIB::serverRole = STRING: 0  
IDB-MIB::serverRole.1 = STRING: Read + Write  
IDB-MIB::serverRole.2 = STRING: Standby, No Traffic  
IDB-MIB::serverRole.3 = STRING: Read + Write  
IDB-MIB::serverRole.4 = STRING: Read  
IDB-MIB::serverRole.5 = STRING: Read  
IDB-MIB::serverMaxConcurrentConnections = INTEGER: 0  
IDB-MIB::serverMaxConcurrentConnections.1 = INTEGER: 300  
IDB-MIB::serverMaxConcurrentConnections.2 = INTEGER: 300  
IDB-MIB::serverMaxConcurrentConnections.3 = INTEGER: 300  
IDB-MIB::serverMaxConcurrentConnections.4 = INTEGER: 300  
IDB-MIB::serverMaxConcurrentConnections.5 = INTEGER: 300  
IDB-MIB::serverIdleConnectionTimeout = INTEGER: 0  
IDB-MIB::serverIdleConnectionTimeout.1 = INTEGER: 30  
IDB-MIB::serverIdleConnectionTimeout.2 = INTEGER: 30  
IDB-MIB::serverIdleConnectionTimeout.3 = INTEGER: 30  
IDB-MIB::serverIdleConnectionTimeout.4 = INTEGER: 30  
IDB-MIB::serverIdleConnectionTimeout.5 = INTEGER: 30  
IDB-MIB::serverStatus = STRING: 0  
IDB-MIB::serverStatus.1 = STRING: 2  
IDB-MIB::serverStatus.2 = STRING: 2  
IDB-MIB::serverStatus.3 = STRING: 2  
IDB-MIB::serverStatus.4 = STRING: 2  
IDB-MIB::serverStatus.5 = STRING: 0

[01:54:30] [../ScaleArc/SNMP]:

If you wanted to monitor the number of connection errors for a specific cluster, the steps

would be:

Determine the SNMP OID index value for the desired cluster

```
$ snmpwalk -c public -v 2c -m ./IDB-MIB.txt 172.31.22.87 clusterName
IDB-MIB::clusterName.1 = STRING: test
IDB-MIB::clusterName.2 = STRING: AlwaysOn
```

Query the clusterConnectionsError OID in the clusterStatTable for the cluster index  
(in this case index 2 for the cluster named "AlwaysOn")



```
$ snmpget -c public -v 2c -m ./IDB-MIB.txt 172.31.22.87  
clusterConnectionsError.2  
IDB-MIB::clusterConnectionsError.2 = INTEGER: 0
```





# References

For information on changing the default community string, please

see <https://support.scalearc.com/kb/articles/3171>

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If you are experiencing issues with ScaleArc or with any of its features, please contact ScaleArc Support. We are available 24x7 by phone at 855 800 7225 or +1 408 412 7315.

For general support inquiries, you can also e-mail us at [support@scalearc.com](mailto:support@scalearc.com).



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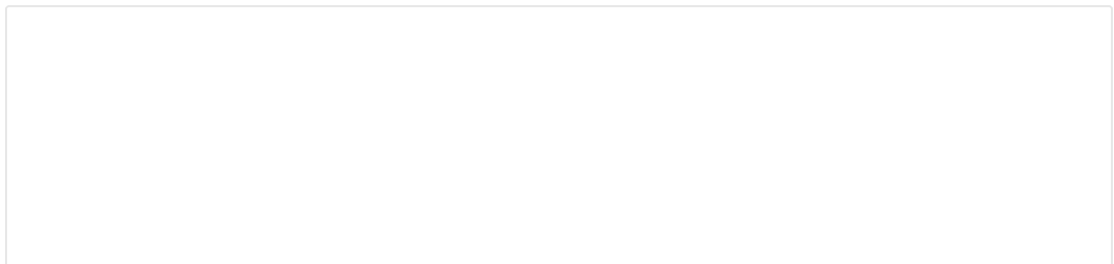








Permalink:  
<https://support.scalearc.com/kb/articles/1551>









Tags





















snmp





## Attachments

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[IDB-MIB.txt \[17.36 KB\]](#)







## Related Pages



[How To: Block SNMP port in ScaleArc if it is required to do so?](#)

[How to change a default SNMP community name](#)

