

Centera Monitoring / Graphs



Tools and Utilities

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Author

Message

cbaker

Newbie



Joined: Mar 28, 2006

Posts: 7

Posted: Wed Mar 29, 2006 2:35 am Post subject: Centera Monitoring / Graphs

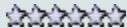


I'd like to ask a question to all the Centera / API tools gurus?? I just stumbled on this site and I think its awesome so far from the content I'm seeing. Here's my question. I use Centera viewer to see alot of good usefull information about all nodes in our Centera, etc... size avail, CPU info mirroring info. Does anyone know of a way to pull this data from Centera?? Via SNMP or some type of script? I'd like to accomplish adding this data graphically to our network monitoring server if possible?? Any suggestions would be greatly appreciated. I've seen lots of scripts and stuff located here on the page, I'm fairly new to this site so if anyone can point me in a good direction that would be great.

Thanks

Cliff

gstuartemc
Site Admin



Joined: Mar 18, 2005
Posts: 429

Posted: Wed Apr 12, 2006 10:01 pm Post subject:



You can obtain this information using the monitoring API within the SDK.

It is also possible to script the CenteraViewer, so if you do not (or are unable) to write code using the monitoring API then you could capture the output and parse it to retrieve the relevant information.

Alternatively, the output from the daily HelathReport could be captured if you do not require up to the minute snapshot information.

Cheers, Graham

Graham Stuart
Centera Integration Architect
EMC Centera Corporate Systems Engineering

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cbaker
Newbie



Joined: Mar 28, 2006
Posts: 7

Posted: Tue Apr 18, 2006 12:15 am Post subject:



Thanks for the reply Graham.....Could you elaborate little more?? I am familiar with the Centera Tools and view the viewer often, but would like to pull that data via a script ?? Dont know where to start really or how to pull the data out i need. I would like to be able to gather the data on a 5 min interval, via Cacti...for graphing trends. But I really am not familiar with SDK and how to interface with it?? Can someone point me in a good direction to learn?? If I can pull data out, couter data or interger data from a script I can handle it from there!

Thanks all.

Cliff

gstuartemc
Site Admin



Joined: Mar 18, 2005
Posts: 429

Posted: Wed Apr 19, 2006 6:17 am Post subject:



Hi Cliff - it's fairly straightforward to do this.

```
java -cp CenteraViewer.jar com.filepool.remote.cli.CLI -u USER  
-p PASSWORD -ip CLUSTER_IP -script SCRIPT_FILE
```

- USER: the CLI user that will execute the script (typically admin).
- PASSWORD: the password of the CLI user.
- CLUSTER_IP: the ip address of one of the cluster's access nodes.
- SCRIPT_FILE: the file containing the CLI commands required to execute the task which provides the information you are interested in.

Make sure the CenteraViewer.jar file is located in the directory where you launch the script from – if not, you will receive the following Java error: java.lang.NoClassDefFoundError: com/filepool/remote/cli/CLI.

All you then need to do is capture the output generated and parse out the text of interest.

Enjoy! Graham

Graham Stuart
Centera Integration Architect
EMC Centera Corporate Systems Engineering

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cbaker
Newbie



Joined: Mar 28, 2006
Posts: 7

Posted: Fri Apr 21, 2006 1:28 am Post subject:



Thanks again for all the help...I think I can handle that.
Off hand do you think this script can be run from a Linux box??

Thanks

gstuartemc

Site Admin



Joined: Mar 18, 2005

Posts: 429

Posted: Fri May 05, 2006 7:36 pm Post subject:



It should be no problem to run the script within a Linux environment ... assuming you have a JVM installed!

Graham

Graham Stuart

Centera Integration Architect

EMC Centera Corporate Systems Engineering

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cbaker

Newbie



Joined: Mar 28, 2006

Posts: 7

Posted: Tue May 09, 2006 3:02 am Post subject:



Question!!!! Thanks again graham for your help...i have successfully gotten the data I need...I'll post some pics soon. if i can. One question though...I get different results when running the remote cli cmd vs. using Centera Tools. Using Centera Viewer CLI i run this>>

```
Config# sho capac avail
```

```
Number of storage nodes: 24
```

```
Number of spare nodes: 2
```

```
Total Raw Capacity: 31,375 GB (100%)
```

```
Used Raw Capacity: 12,782 GB (41%)
```

```
Free Raw Capacity: 18,593 GB (59%)
```

```
System Buffer: 2,157 GB (7%)
```

```
Available Capacity: 16,436 GB (52%)
```

```
Regeneration Buffer Alert At: 349 GB (1%)
```

```
Available Capacity till Alert: 16,087 GB (51%)
```

```
Total Object Count: 1,200 M (100%)
```

```
Used Object Count: 11 M (0%)
```

```
Free Object Count: 1,189 M (100%)
```

And here is my remote CLi run >>>

```
Connected to RemoteManager at 172.17.174.235:3218 using
FRMP version 2
```

```
Type "help" for available commands.
```

```
Config# Number of storage nodes: 24
```

```
Number of spare nodes: 2
```

```
Total Raw Capacity: 33,689 GB (100%)
```

```
Used Raw Capacity: 13,725 GB (41%)
```

```
Free Raw Capacity: 19,964 GB (59%)
```

```
System Buffer: 2,316 GB (7%)
```

Available Capacity: 17,648 GB (52%)
Regeneration Buffer Alert At: 375 GB (1%)
Available Capacity till Alert: 17,273 GB (51%)

Total Object Count: 1,200 M (100%)
Used Object Count: 11 M (0%)
Free Object Count: 1,189 M (100%)

Config#

I can seem to figure out where the extra 2TB is in the total??
and why it doesnt display using the same command??

THanks

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gstuartemc

Site Admin
☆☆☆☆☆☆

Joined: Mar 18, 2005
Posts: 429

Posted: Tue May 09, 2006 3:32 am Post subject:



The difference is that one uses "decimal" measures i.e. 1GB = 1000 MB = 100KB while the other uses "true" base 2 i.e. 1GB = 1024 MB = 1024 KB.

Strange but true.

Graham

Graham Stuart
Centera Integration Architect
EMC Centera Corporate Systems Engineering

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cbaker

Newbie
☆☆

Joined: Mar 28, 2006
Posts: 7

Posted: Fri May 25, 2007 4:39 am Post subject:



Help Guys.....using java now I am recieving an error tryin to run scripts remotely?? I just had a CentraStar Upgrade and now I believe the port has changed to connect...see error.

```
java -cp /home/www/htdocs/cacti/scripts/CentraViewer.jar  
com.filepool.remote.cli.CLI ?
```

Username: admin

Password: centera

IP: ****

Centera interactive shell (Implementation CLI 2.3.390, 2004-09-15)

Connected to RemoteManager at *****:3218 using FRMP version 2

Manageability client is not connected

Disconnected.

5/24/07 2:45:41 PM

Manageability client is not connected

Manageability client is not connected

Disconnected.

5/24/07 2:45:41 PM

Manageability client is not connected

How can I specify port number in my call?

Thanks

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cbaker

Newbie



Joined: Mar 28, 2006

Posts: 7

Posted: Fri May 25, 2007 4:47 am Post subject:



Now i get this....`java -cp CenteraViewer.jar com.filepool.`

`remote.cli.CLI -u admin -p centera -ip 172.17.174.235:3682`

5/24/07 2:49:09 PM

Manageability client is not connected

5/24/07 2:49:09 PM

Manageability client is not connected

Any ideas?? Setting on Centera?

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mikehorgan

Power user

Joined: Mar 25, 2005

Posts: 483

Location: Hopkinton, MA, USA

Posted: Wed May 30, 2007 4:12 am Post subject:



Hi Cliff -

Are you using an up-to-date version of CenteraViewer.jar? The version of CV must be equal to or greater than the version of the cluster you are communicating with. You can grab an updated Customer CD (which includes Centera Viewer) from our Downloads section under "Tools Releases -> 3.1 SP2".

Best Regards,

Mike Horgan

Mike Horgan

EMC Centera Integration Architect

cbaker

Newbie



Joined: Mar 28, 2006

Posts: 7

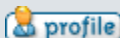
Posted: Tue Jun 05, 2007 2:20 am Post subject:



Thanks Mike...that was it....I had that verion already on my PC...I just need to copy over the new .jar file to my monitoring server..

Thanks

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s715342

Newbie



Joined: Nov 07, 2006

Posts: 2

Posted: Wed Oct 03, 2007 4:14 am Post subject:



How do we get access to run this script on a CE+ box and not just Basic? Or is that even possible with the CE+ compliance mode?

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gstuartemc

Site Admin



Joined: Mar 18, 2005

Posts: 429

Posted: Wed Oct 03, 2007 7:38 pm Post subject:



CE+ has additional security features that "secure" it. Connecting over a network is classified as part of the "remote administration" restrictions and you would need to physically connect a laptop directly into one of the nodes on the cluster.

Graham Stuart

Centera Integration Architect

EMC Centera Corporate Systems Engineering