



[ZABBIX Forums](http://www.zabbix.com/forum/index.php) (<http://www.zabbix.com/forum/index.php>)

- [Zabbix Cookbook](http://www.zabbix.com/forum/forumdisplay.php?f=11) (<http://www.zabbix.com/forum/forumdisplay.php?f=11>)

- [HP P2000 G3 monitoring \(Zabbix 2.0\)](http://www.zabbix.com/forum/showthread.php?t=26572) (<http://www.zabbix.com/forum/showthread.php?t=26572>)

Emir Imamagic

07-06-2012 12:00

HP P2000 G3 monitoring (Zabbix 2.0)

1 Attachment(s)

Hello,

I attached script and Zabbix template for transfer rates and IOPS for HP P2000 G3 storage system. I used LLD so this solution can be used only in Zabbix 2.0.

For earlier versions it is possible to use statistic gathering & reporting part, but one needs to manually create templates.

Script (hp-msa.pl) uses XML API and it is based on the example provided in "HP P2000 G3 MSA System CLI Reference Guide". Same script is used for LLD and reporting values as "Zabbix trappers". Execute hp-msa.pl to see usage. Unfortunately script does not have decent error/timeout handling, it is in my TODO list.

Template uses LLD to discover all:

- controllers
- virtual disks
- volumes

Discovery item (HP Entities Discovery) uses {HOST.CONN} to connect to the storage system. Statistics gathering item (HP P2000 Sensor) uses {HOST.DNS1} for connecting and value reporting. Make sure that storage host has these two properly configured.

Script execution time is ~10s so one needs to increase Zabbix server config file, e.g.:
Timeout=30

Big thanks to Zabbix team, LLD makes template generation **soo much** easier.

Best regards,
Emir Imamagic

elvar

07-06-2012 17:55

Wow, your timing is impeccable! I just installed my first P2000 G3 and I came here looking for a template and found this.

Thanks!

thesubmitter

22-06-2012 04:53

Would this work for a g2 msa2312i?

i.kulagin

09-07-2012 09:04

Emir Imamagic

Thanks for template and the script, but can you please provide some kind of guide how to use them?

I need to monitor the P2000 G3 FC, but I can't understand how can I do it, using this script, and which services should I configure inside of the P2000 equipment to make monitoring possible. Thanks for your help.

scr512

18-07-2012 20:38

So i've got most of this working my end but I'm guessing that something isn't quite right.

If I execute the script interactively using the stats option I get a return of 0. I suspect that maybe the P2000s I am running are a version or two behind what you used in testing?

```
# show inquiry
Inquiry Controller A
-----
```

```
Management Controller Code Version: L230S025
Management Controller Loader Code Version: 2.5
Storage Controller Code Version: T230P03
```

Emir Imamagic

18-07-2012 22:01

Hello,

I have exactly the same version so it should work fine.

Is LLD working? Did you get all the controllers, vdisks and volumes configured in Zabbix? Script will report 0 if sending of at least a single value fails.

Unfortunately I didn't have time to do decent debugging so I suggest commenting line:

Code:

```
die "Can not remove file $sendFile!" unless(unlink ($sendFile));
```

After executing

Code:

```
hp-msa.pl FQDN stats
```

check content of file `"/var/tmp/zabbixSenderHPP2000"`.

Also check Zabbix server logs for errors.

Quote:

Originally Posted by **scr512** (Post 105061)

So i've got most of this working my end but I'm guessing that something isn't quite right.

If I execute the script interactively using the stats option I get a return of 0. I suspect that maybe the P2000s I am running are a version or two behind what you used in testing?

```
# show inquiry
Inquiry Controller A
-----
```

```
Management Controller Code Version: L230S025
Management Controller Loader Code Version: 2.5
Storage Controller Code Version: T230P03
```

Emir Imamagic

18-07-2012 22:15

Before adding anything to Zabbix make sure that the controller has DNS and IP address and that it is accessible from the Zabbix server.

Script uses default username and password (monitor/monitor). If your storage admin changed these parameters, you have to modify them in the hp-msa.pl script, lines:

Code:

```
my $USERNAME = "monitor";  
my $PASSWORD = "monitor";
```

Script uses https, but if that is causing a problem you can switch it to http. Unfortunately I didn't make a parameter for that so you can use sed:

Code:

```
sed -i s/https/http/ hp-msa.pl
```

Adding script/template to Zabbix:

1. Create host with your controller data (you must IP and DNS address)
2. Import template from the ZIP file
3. On the Zabbix server:
 - 3.1. check the value of ExternalScripts in Zabbix server config file
 - 3.2. put hp-msa.pl in that directory
 - 3.2. make sure that user zabbix has execution permission on hp-msa.pl
4. Link host with the template Template_HP_P2000_G3

Discovery rule has a long delay (3600s) so in order to get LLD items defined you might want to temporarily change it to something like 60.

Wait until items (controllers, vdisks, volumes) appear. Afterwards external item "HP P2000 Sensor" should start reporting values and eventually switch from 0 to 1.

Quote:

Originally Posted by **i.kulagin** (Post 104234)

Emir Imamagic

Thanks for template and the script, but can you please provide some kind of guide how to use them? I need to monitor the P2000 G3 FC, but I can't understand how can I do it, using this script, and which services should I configure inside of the P2000 equipment to make monitoring possible.

Thanks for your help.

Emir Imamagic

18-07-2012 22:17

Unfortunately I don't have such storage here. Best way to find out is to give it a try :)

Quote:

Originally Posted by **thesubmitter** (Post 103164)

Would this work for a g2 msa2312i?

scr512

Quote:

Originally Posted by **Emir Imamagic** (Post 105065)

Hello,

I have exactly the same version so it should work fine.

*Is LLD working? Did you get all the controllers, vdisks and volumes configured in Zabbix?
Script will report 0 if sending of at least a single value fails.*

Unfortunately I didn't have time to do decent debugging so I suggest commenting line:

Code:

```
die "Can not remove file $sendFile!" unless(unlink ($sendFile));
```

After executing

Code:

```
hp-msa.pl FQDN stats
```

check content of file "/var/tmp/zabbixSenderHPP2000".

Also check Zabbix server logs for errors.

So actually the script looks to be working just fine, at least when I run it interactively from CLI :) I can see a bunch of useful data I would love to ingest.

So, looking at the zabbix_server.log it is obvious that I am doing something wrong in my host configuration.

Code:

```
File does not exist: 500 Can't connect to *UNKNOWN*:443 (Bad hostname '*UNKNOWN*')  
at /usr/local/share/zabbix/externalscripts/hp-msa.pl line 120
```

I'll poke around and see what I am doing. I will note that when I configured the hosts, I used an SNMP interface, not an agent interface. I do have an IP and DNS name set on the SNMP interface.

Emir Imamagic

18-07-2012 22:43

Quote:

Originally Posted by **scr512** (Post 105069)

So actually the script looks to be working just fine, at least when I run it interactively from CLI :) I can see a bunch of useful data I would love to ingest.

So, looking at the zabbix_server.log it is obvious that I am doing something wrong in my host configuration.

Code:

```
File does not exist: 500 Can't connect to *UNKNOWN*:443 (Bad hostname '*UNKNOWN*')  
at /usr/local/share/zabbix/externalscripts/hp-msa.pl line 120
```

I'll poke around and see what I am doing. I will note that when I configured the hosts, I used an SNMP interface, not an agent interface. I do have an IP and DNS name set on the SNMP interface.

The tricky part is that I used DNS name for stats. You have to make sure that:

1. DNS attribute is properly defined in "Agent interfaces"
2. DNS can be used to access storage controller and
3. DNS is equivalent to the "Host name" attribute of the host.

scr512

19-07-2012 00:11

Quote:

Originally Posted by **Emir Imamagic** (Post 105070)

The tricky part is that I used DNS name for stats. You have to make sure that:

- 1. DNS attribute is properly defined in "Agent interfaces"*
 - 2. DNS can be used to access storage controller and*
 - 3. DNS is equivalent to the "Host name" attribute of the host.*
-

Hmm I seem to be going crazy :)

I can definitely connect to the storage management interface from my Zabbix box using it's DNS name (SSH)

Yet I am still getting le crazy log messages complaining about "*UNKNOWN*". I'll do some more Googling.

So, does this look sane to you?

<https://lh4.googleusercontent.com/-t....20%2520PM.png>

Emir Imamagic

19-07-2012 00:28

Quote:

Originally Posted by **scr512** (Post 105073)

Hmm I seem to be going crazy :)

I can definitely connect to the storage management interface from my Zabbix box using it's DNS name (SSH)

*Yet I am still getting le crazy log messages complaining about "*UNKNOWN*". I'll do some more Googling.*

So, does this look sane to you?

<https://lh4.googleusercontent.com/-t....20%2520PM.png>

You need to configure add at least one Agent interface and put IP and DNS there. Afterwards you can remove this SNMP interface.

scr512

19-07-2012 00:57

Quote:

Originally Posted by **Emir Imamagic** (Post 105074)

You need to configure add at least one Agent interface and put IP and DNS there. Afterwards you can remove this SNMP interface.

Ok, I have that now setup. I've also configured my zabbix_agentd.conf to have a Timeout=30.

Code:

```
cat /etc/zabbix/zabbix_agentd.conf | grep Timeout
### Option: Timeout
#         Spend no more than Timeout seconds on processing
Timeout=30
```

So, I seem to be getting a little further along. I am now running into this :)

Code:

```
1328:20120718:164423.314 item [jckp2k-1a.rac.acl:hp-msa.pl["
{HOST.DNS1}","stats"]] became not supported: timeout while executing a shell
script
1328:20120718:164443.325 item [jckp2k-1a.rac.acl:hp-msa.pl["{HOST.CONN}"]]
became not supported: timeout while executing a shell script
1328:20120718:164528.345 item [jckp2k-1b.rac.acl:hp-msa.pl["
{HOST.DNS1}","stats"]] became not supported: timeout while executing a shell
script
1326:20120718:164553.362 item [jckp2k-1b.rac.acl:hp-msa.pl["{HOST.CONN}"]]
became not supported: timeout while executing a shell script
```

Emir Imamagic

19-07-2012 01:05

Quote:

Originally Posted by **scr512** (Post 105076)

Ok, I have that now setup. I've also configured my zabbix_agentd.conf to have a Timeout=30.

You need to put this variable to Zabbix server config.

Cheers

scr512

19-07-2012 01:54

Quote:

Originally Posted by **Emir Imamagic** (Post 105078)

You need to put this variable to Zabbix server config.

Cheers

Yes, this is set in server config as well... no joy.

Emir Imamagic

19-07-2012 08:41

Quote:

Originally Posted by **scr512** (Post 105082)
Yes, this is set in server config as well... no joy.

How long do scripts take to execute:

Code:

```
time ./hp-msa.pl <HOSTNAME>
time ./hp-msa.pl <HOSTNAME> stats
```

scr512

19-07-2012 16:18

Quote:

Originally Posted by **Emir Imamagic** (Post 105090)
How long do scripts take to execute:

Code:

```
time ./hp-msa.pl <HOSTNAME>
time ./hp-msa.pl <HOSTNAME> stats
```

Under 30 seconds to be sure :)

Code:

```
time ./hp-msa.pl jckp2k-1a.rac.acl

real    0m5.440s
user    0m0.634s
sys     0m0.038s

time ./hp-msa.pl jckp2k-1a.rac.acl stats
0

real    0m7.793s
user    0m0.496s
sys     0m0.037s
```

Maybe I should be using a newer version of Zabbix 2?

Code:

```
/usr/local/sbin/zabbix_server --version

Zabbix server v2.0.0 (revision 27675) (21 May 2012)
Compilation time: Jul 16 2012 08:39:11
```

scr512

19-07-2012 16:35

Quote:

Originally Posted by **scr512** (Post 105126)
Under 30 seconds to be sure :)

Code:

```
time ./hp-msa.pl jckp2k-1a.rac.acl

real      0m5.440s
user      0m0.634s
sys       0m0.038s

time ./hp-msa.pl jckp2k-1a.rac.acl stats
0

real      0m7.793s
user      0m0.496s
sys       0m0.037s
```

Maybe I should be using a newer version of Zabbix 2?

Code:

```
/usr/local/sbin/zabbix_server --version
```

```
Zabbix server v2.0.0 (revision 27675) (21 May 2012)
Compilation time: Jul 16 2012 08:39:11
```

I think I got this working... being the idiot that I am... I failed to notice that my Zabbix server and agentd configuration files were located in /usr/local/etc rather than /etc/zabbix :)

Once I copied my configuration files over proper things now appear to be working.

<https://lh4.googleusercontent.com/-P...30%2520AM.png>

meduzalt

26-07-2012 13:13

Hello,

I see it is good solution to monitor HP MSA, but I have problem with perl script.
I have Zabbix 2.0.0 server, and want to monitor MSA 2324sa

I've got error when execute:

Code:

```
./hp-msa.pl FQDN stats
Not a HASH reference at ./hp-msa.pl line 60
```

or

Code:

```
./hp-msa.pl FQDN
Not a HASH reference at ./hp-msa.pl line 33
```

I dont understant what is wrong and cant find reference.
Thanks

thesubmitter

01-08-2012 23:30

Having the same error here on a self compiled 2.0 install running debian squeeze and on msa g2 2312i

Quote:

Originally Posted by **meduzalt** (Post 105549)
Hello,

*I see it is good solution to monitor HP MSA, but I have problem with perl script.
I have Zabbix 2.0.0 server, and want to monitor MSA 2324sa*

I've got error when execute:

Code:

```
./hp-msa.pl FQDN stats  
Not a HASH reference at ./hp-msa.pl line 60
```

or

Code:

```
./hp-msa.pl FQDN  
Not a HASH reference at ./hp-msa.pl line 33
```

*I dont understant what is wrong and cant find reference.
Thanks*

meduzalt

02-08-2012 09:42

Quote:

Originally Posted by **thesubmitter** (Post 106049)
*Having the same error here on a self compiled 2.0 install running debian squeeze and on msa
g2 2312i*

I have the same Debian Squeeze

Maybe it is related with Debian and Perl v5.10.1 (*) built for x86_64-linux-gnu-thread-multi

In some Forums it was noticed that after Perl upgraded from <5.10 to 5.10 appeared such error:

Quote:

```
Not a HASH reference at
```

as alternative need test with another Perl version, but dont know how. Need Googling.

i.kulagin

02-08-2012 11:24

I've got this error in zabbix-server.log:

Quote:

```
item [msa2000:hp-msa.pl["{HOST.DNS1}","stats"]] became not supported: Received value  
[] is not suitable for value type [Numeric (unsigned)] and data type [Decimal]
```

But the /var/tmp/zabbixSenderHPP2000_* file is not empty and contains some usefull infomation. Is it possible that the problem with a perl parser? The script produced an error and asked about missing /usr/local/share/perl/5.14.2/XML/SAX/ParserDetails.ini. I have copied sample ParserDetails.ini from /etc/perl/XML/SAX/. Now it looks like this:

Quote:

```
[XML::SAX::PurePerl]
http://xml.org/sax/features/namespaces = 1
```

```
[XML::SAX::Expat]
http://xml.org/sax/features/namespaces = 1
http://xml.org/sax/features/external-general-entities = 1
http://xml.org/sax/features/external-parameter-entities = 1
```

Is it alright?

Does anyone have any other suggestions about how to solve the problem?

Ubuntu 12.04, zabbix 2.0.1.

i.kulagin

02-08-2012 16:37

Hm, I think it's not the script problem.

I tried to send a file with the collected information (/var/tmp/zabbixSender*) to zabbix-server with zabbix_sender like this:

Code:

```
zabbix_sender -c /etc/zabbix/zabbix_agentd.conf -i
/var/tmp/zabbixSenderHPP2000_HostName_291
```

3

And I've got a response:

Code:

```
info from server: "Processed 0 Failed 60 Total 60 Seconds spent 0.002145"
sent: 60; skipped: 0; total: 60
```

zabbix-server.log says:

Code:

```
{
    "host": "HOSTNAME",
    "key": "hp.p2000.stats[Volume,Backup_1,iops]",
    "value": "0"},
    {
    "host": "HOSTNAME",
    "key": "hp.p2000.stats[Volume,Backup_1,bytes-per-second-
numeric]",
    "value": "5120"},
    {
    "host": "HOSTNAME",
    "key": "hp.p2000.stats[Volume,Backup_1,data-written-
numeric]",
    "value": "82499759616"}]]] len 7896
```

```
3330:20120802:172313.391 In recv_agenthistory()
3330:20120802:172313.391 In process_hist_data()
3330:20120802:172313.392 In process_mass_data()
3330:20120802:172313.392 End of process_mass_data()
3330:20120802:172313.393 End of process_hist_data():SUCCEED
3330:20120802:172313.393 In zbx_send_response()
3330:20120802:172313.393 zbx_send_response() '{
    "response": "success",
    "info": "Processed 0 Failed 60 Total 60 Seconds spent 0.001607"}'
3330:20120802:172313.393 End of zbx_send_response():SUCCEED
3330:20120802:172313.393 End of recv_agenthistory()
3354:20120802:172313.397 In collect_selfmon_stats()
```

```
3354:20120802:172313.397 End of collect_selfmon_stats()
3354:20120802:172313.397 sleeping for 1 seconds
3330:20120802:172313.956 Trapper got [] len 0
3351:20120802:172314.277 sleeping for 1 sec
```

I have no idias why Processed 0 Failed 60. Can anybody help please?

thesubmitter

02-08-2012 18:23

given that there is no show controller statistics command on the G2 I am gonna say it doesn't work on the G2

i.kulagin

07-08-2012 08:45

So, I have solved some problems by reimporting the template. Now I can successfully send data from files, generated with the script, to zabbix-server with zabbix_sender. I can see item values, graphs etc in the latest data. But still no luck with external checks - data receiving is very unstable. When I run the script with hp-msa.pl HOSTNAME I get

Code:

```
{
  "data" : []
}
```

or

Code:

```
Authentication Unsuccessful at /etc/zabbix/externalscripts/hp-msa.pl line 126.
```

Last error may be related with the small period of time between script launches, so I do not consider it as a problem. But the first error is really bothers me. I suggest, I should see an output, like in the file /var/tmp/zabbixSender*. Am I right? Can anyone with working configuration tell me, what the correct output is.

Thanks.

i.kulagin

14-08-2012 15:15

It seems that problem has been solved with the upgrade of P2000 firmware to the latest version. **Emir Imamagic**, thanks again for share the script.

elvar

27-08-2012 07:14

The script appears to be succeeding in my zabbix_proxy.log but I'm not seeing anything populated in the latest data area. Any suggestions?

prem

01-12-2012 00:00

Running CentOS 6.3 x86_64 with perl-5.10.1-127.el6.x86_64 hp-msa.pl returns the following error:

syntax error at line 1, column 0, byte 0 at /usr/lib64/perl5/XML/Parser.pm line 187

It would be great if someone could help me please. Thanks!

dima_dm

07-03-2013 08:22

Zabbix_sender 2.0.3

```
/usr/local/bin/zabbix_sender.old -c /etc/zabbix/zabbix_agentd.conf -i
/tmp/zabbixSenderHPP2000_VMware_Array_16901 1>test1.txt
cat test1.txt
info from server: "Processed 36 Failed 0 Total 36 Seconds spent 0.000587"
sent: 36; skipped: 0; total: 36
```

Zabbix_sender 2.0.5

```
/usr/local/bin/zabbix_sender -c /etc/zabbix/zabbix_agentd.conf -i
/tmp/zabbixSenderHPP2000_VMware_Array_16901 1>test.txt
cat test.txt
sent: 36; skipped: 0; total: 36
```

Don't print Zabbix_sender 2.0.5 in stdout string "info from server: "Processed 36 Failed 0 Total 36 Seconds spent 0.000587"

Patch for script

Code:

```
diff zabbix_hp_msa.pl.old zabbix_hp_msa.pl
13c13
< my $zabbixSendCommand="$zabbixSender -c $zabbixConfd -i ";
---
> my $zabbixSendCommand="$zabbixSender -vv -c $zabbixConfd -i ";
167c167
<     $zabbixSendCommand .= $sendFile;
---
>     $zabbixSendCommand .= $sendFile." 2>&1";
```

dima_dm

07-03-2013 08:28

Quote:

Originally Posted by **i.kulagin** (Post 106083)
I have no idias why Processed 0 Failed 60. Can anybody help please?

You must check name of host in zabbix and "HostName". This name is case sensitive.

hoangtukasi

28-03-2013 04:03

HI,
 I have install zabbix 2.0.5 on Unbuntu and monitor San P2000 G3, but I do not know to copy this file hp-msa.pl to directory. please help thanks

dima_dm

28-03-2013 15:34

Quote:

Originally Posted by **hoangtukasi** (Post 129174)
*HI,
 I have install zabbix 2.0.5 on Unbuntu and monitor San P2000 G3, but I do not know to copy this file hp-msa.pl to directory. please help thanks*

in zabbix_server.conf see

Code:

```
ExternalScripts=${datadir}/zabbix/externalscripts
```

In my system `${datadir}=/usr/local/share/`
 Path `/usr/local/share/zabbix/externalscripts`.
 You can define any other path in `ExternalScripts`.

extress

17-07-2013 10:24

How to use this template/script with a Zabbix Proxy, does anyone know ?

elvar

30-07-2013 23:47

I decided to revisit this script today and the problem I get is that it returns the number "0" every time I run the script. Any suggestions?

Code:

```
./hp-msa.pl hostname.example.com stats
0
```

Kind regards,

dima_dm

31-07-2013 09:14

Quote:

Originally Posted by **elvar** (Post 135717)

I decided to revisit this script today and the problem I get is that it returns the number "0" every time I run the script. Any suggestions?

Code:

```
./hp-msa.pl hostname.example.com stats
0
```

Kind regards,

You can create test version of script

Code:

```
diff -u zabbix_hp_msa.pl zabbix_hp_msa_test.pl
--- zabbix_hp_msa.pl      2013-03-06 18:14:37.646311331 +0400
+++ zabbix_hp_msa_test.pl 2013-03-07 14:33:23.346248736 +0400
@@ -14,7 +14,7 @@
 my $USERNAME = "admin";
 my $PASSWORD = "XXXXXXXXX";
 -
+my $test;
 sub getHPP2000objects {
     my $ua = shift;
     my $sessionKey = shift;
@@ -165,13 +165,16 @@
     die "Could not close file $sendFile!" unless (close(FH));

     $zabbixSendCommand .= $sendFile." 2>&1";
 -    if ( qx($zabbixSendCommand) =~ /Failed 0/ ) {
```

```

+   print "test $zabbixSendCommand\n";
+   $test=qx($zabbixSendCommand);
+   print "test $test\n";
+   if ( $test =~ /Failed 0/ ) {
+       $res = 1;
+   } else {
+       $res = 0;
+   }

-   die "Can not remove file $sendFile!" unless(unlink ($sendFile));
+   #die "Can not remove file $sendFile!" unless(unlink ($sendFile));
  print "$res\n";
  exit ($res - 1);
}

```

Check zabbix_agentd.conf ServerActive parameter. Must be IP zabbix_server.

ServerActive=127.0.0.1

elvar

31-07-2013 17:36

Quote:

Originally Posted by **dima_dm** (Post 135727)

You can create test version of script

Code:

```

diff -u zabbix_hp_msa.pl zabbix_hp_msa_test.pl
--- zabbix_hp_msa.pl      2013-03-06 18:14:37.646311331 +0400
+++ zabbix_hp_msa_test.pl    2013-03-07 14:33:23.346248736 +0400
@@ -14,7 +14,7 @@

  my $USERNAME = "admin";
  my $PASSWORD = "XXXXXXXXX";
-
+my $test;
  sub getHPP2000objects {
      my $ua = shift;
      my $sessionKey = shift;
@@ -165,13 +165,16 @@
      die "Could not close file $sendFile!" unless (close(FH));

      $zabbixSendCommand .= $sendFile." 2>&1";
-   if ( qx($zabbixSendCommand) =~ /Failed 0/ ) {
+   print "test $zabbixSendCommand\n";
+   $test=qx($zabbixSendCommand);
+   print "test $test\n";
+   if ( $test =~ /Failed 0/ ) {
+       $res = 1;
+   } else {
+       $res = 0;
+   }

-   die "Can not remove file $sendFile!" unless(unlink ($sendFile));
+   #die "Can not remove file $sendFile!" unless(unlink ($sendFile));
  print "$res\n";
  exit ($res - 1);
}

```

Check zabbix_agentd.conf ServerActive parameter. Must be IP zabbix_server.

ServerActive=127.0.0.1

It turns out the only problem was not having the ServerActive line set correctly since my agent was

using passive checks. Once I configured that line correctly it resolved things and now this template is working great. Thanks for the suggestion, it did the trick!

Kind regards,

elvar

31-07-2013 17:56

Has anyone added anything to this script / template to detect disk and volume failures by chance?

dima_dm

02-08-2013 12:04

Quote:

Originally Posted by **elvar** (Post 135763)
Has anyone added anything to this script / template to detect disk and volume failures by chance?

I added SNMP Item
.1.3.6.1.4.1.232.11.2.10.1.0
And trigger
{Template_HP_P2000_G3_FC:cpqHoMibStatusArray.last(0)}#133396

Sententiosus

10-09-2013 15:56

HASH error

Hello,

we like to monitor our MSA 2000 and while we trying the script we getting the error:

Quote:

Not a HASH reference at /usr/lib/zabbix/externalscripts/hp-msa.pl line 18.

Code:

```
my $ua = shift;
my $sessionKey = shift;
my $url = shift;
my $objectName = shift;
my $idName = shift;
my $type = shift;
my $zbxArray = shift;
my $req = HTTP::Request->new(GET => $url);
$req->header('sessionKey' => $sessionKey );
$req->header('dataType' => 'api' );
my $res = $ua->request($req);
my $ref = XMLin($res->content, KeyAttr => "oid");
foreach my $oid (values %{$ref->{OBJECT}}) {
    if ($oid->{name} eq $objectName) {
        my $reference;
        foreach my $entry (@{$oid->{PROPERTY}}) {
            if ($entry->{name} =~ /^($idName)$/) {
                $reference = {'#HP_P2000_ID' => $entry->{content},
                    {'#HP_P2000_TYPE' => $type};
                last;
            }
        }
        push @{$zbxArray}, {%{$reference}};
```

```
}  
}  
}
```

Line 18 is marked. Has someone the same issue or maybe the solution?

Thanks

tikondrus

25-12-2013 11:53

Quote:

Originally Posted by **prem** (Post 122708)

Running CentOS 6.3 x86_64 with perl-5.10.1-127.el6.x86_64 hp-msa.pl returns the following error:

syntax error at line 1, column 0, byte 0 at /usr/lib64/perl5/XML/Parser.pm line 187

It would be great if someone could help me please. Thanks!

a have the same problem.

Running CentOS 6.5 x86_64 with perl-5.10.1-136.el6.x86_64

can anybody help me?

All times are GMT +2. The time now is 14:55.

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- [Zabbix Cookbook](http://www.zabbix.com/forum/forumdisplay.php?f=11) (<http://www.zabbix.com/forum/forumdisplay.php?f=11>)

- - [HP P2000 G3 monitoring \(Zabbix 2.0\)](http://www.zabbix.com/forum/showthread.php?t=26572) (<http://www.zabbix.com/forum/showthread.php?t=26572>)

tikondrus

08-01-2014 10:44

simple sollution:
yum install 'perl(IO::Socket::SSL)'

sarou

19-02-2014 10:22

Hi,

Thanks for template & Perl script.

I have a little problem, I try to create Items to check LUNs & Volumes but nothing appear in Lastest Datas Tabs. I can see "Sensor" but that's all.

Does anybody could say if I create item correctly ?

<http://badsaroumane.free.fr/items.jpg>

Thank you for answer and have a nice day.

PS : The Sensor Item appears but the value is "0" since 3 days...

avk

12-03-2014 13:21

./hp-msa.pl fqdn stats

./hp-msa.pl fqdn stats

Can't exec "/usr/bin/zabbix_sender": No such file or directory at ./hp-msa.pl line 168.
Use of uninitialized value in pattern match (m//) at ./hp-msa.pl line 168.

extress

12-03-2014 13:24

Quote:

Originally Posted by **avk** (Post 146435)
./hp-msa.pl fqdn stats

*Can't exec "/usr/bin/zabbix_sender": No such file or directory at ./hp-msa.pl line 168.
Use of uninitialized value in pattern match (m//) at ./hp-msa.pl line 168.*

You must adapt the \$zabbixSender variable that fit your installation, in my case :
\$zabbixSender="/usr/local/bin/zabbix_sender";

edit : the same goes with \$zabbixConfd, \$USERNAME and \$PASSWORD ...

avk

12-03-2014 13:27

Quote:

Originally Posted by **extress** (Post 146436)
*You must adapt the \$zabbixSender variable that fit your installation, in my case :
\$zabbixSender="/usr/local/bin/zabbix_sender";*

I can't find zabbix_sender in /usr/local/bin.
I have CentOS 6.5. Which path to look?

extress

12-03-2014 13:31

Quote:

Originally Posted by **avk** (Post 146437)

*I can't find zabbix_sender in /usr/local/bin.
I have CentOS 6.5. Which path to look?*

try this command :

Code:

```
whereis zabbix_sender
```

avk

12-03-2014 13:32

Quote:

Originally Posted by **extress** (Post 146438)
try this command :

Code:

```
whereis zabbix_sender
```

whereis zabbix_sender
zabbix_sender:

nothing

extress

12-03-2014 13:34

Quote:

Originally Posted by **avk** (Post 146439)
*whereis zabbix_sender
zabbix_sender:*

nothing

your Zabbix has been installed through yum or manually ?

edit : and if you try

Code:

```
updatedb && locate zabbix_sender
```

avk

12-03-2014 15:16

Quote:

Originally Posted by **extress** (Post 146440)
your Zabbix has been installed through yum or manually ?

I have yum installed Zabbix.

Quote:

Originally Posted by **extress** (Post 146440)
edit : and if you try

Code:

```
updatedb && locate zabbix_sender
```

nothing

aib

12-03-2014 20:01

well, you have no choice.

Code:

```
# yum install zabbix-sender
```

avk

13-03-2014 04:51

Quote:

Originally Posted by **aib** (Post 146479)
well, you have no choice.

Code:

```
# yum install zabbix-sender
```

That's not in the user manual.
Thanks!

iuramd88

13-03-2014 18:49

Please help

The script doesn't work for me. When I run the script "hp-msa.pl fqdn stats" I get the following error: Undefined subroutine &main::XMLin called at ./hp-msa.pl line 120.
The same error I see in zabbix_server.log file. The OS I use for zabbix is FreeBSD.

elvar

02-04-2014 20:37

Whenever I run ./hp-msa.pl fqdn stats I receive a result of 0 and nothing is written to /var/tmp/zabbixSenderHPP2000. I don't seem to be receiving any other errors though.

Suggestions?

elvar

02-04-2014 20:46

Quote:

Originally Posted by **elvar** (Post 147781)

Whenever I run ./hp-msa.pl fqdn stats I receive a result of 0 and nothing is written to /var/tmp/zabbixSenderHPP2000. I don't seem to be receiving any other errors though.

Suggestions?

Nevermind. :D

elvar

02-04-2014 23:03

I have this working when I manually run the script but for whatever reason, it is not automatically showing data in "latest data" on its own. I can see the checks taking place in the zabbix debug log and it appears to be receiving data. I don't actually see any errors taking place but there is definitely no data populating unless I manually run it.

Suggestions?

aib

02-04-2014 23:24

When you set 0 for History storage period (in days), Zabbix don't care about saving any data.
You will see in debug log that data was received, but the wouldn't show in Latest data and wouldn't save in database.

elvar

03-04-2014 00:07

Quote:

Originally Posted by **aib** (Post 147786)

*When you set 0 for History storage period (in days), Zabbix don't care about saving any data.
You will see in debug log that data was received, but the wouldn't show in Latest data and wouldn't save in database.*

The item prototype's are configured for 7 days of history.

elvar

07-04-2014 03:54

I figured out why it wasn't working. I had accidentally deleted the sensor item which calls the script with the "stats" argument. All good now, thanks!

aib 07-04-2014 16:05

Good for you!

dish 12-05-2014 07:33

Update

1 Attachment(s)
Template update with disk and enclosures status monitoring support

elvar 15-05-2014 00:36

Quote:

Originally Posted by **dish** (Post 149677)
Template update with disk and enclosures status monitoring support

Woot! Can't wait to try it out.

Thanks!

avk 15-05-2014 06:14

I updated this version.
./hp-msa.pl fqdn lld returned data, but stats returned 0 and LATEST DATA was no longer change.
I installed the old version of the script. ./hp-msa.pl fqdn lld returned data and stats returned 0 and LATEST DATA was started change.

dish 15-05-2014 12:52

Quote:

Originally Posted by **avk** (Post 149870)
*I updated this version.
./hp-msa.pl fqdn lld returned data, but stats returned 0 and LATEST DATA was no longer change.
I installed the old version of the script. ./hp-msa.pl fqdn lld returned data and stats returned 0 and LATEST DATA was started change.*

Discovery rule have 1 day delay, try decrease (600 for example) it and disconnect and clear template from the host.

You can comment string in file hp-msa.pl
die "Can not remove file \$sendFile!" unless(unlink (\$sendFile));
and check data in file /var/tmp/zabbixSenderHPP2000_hostip...

elvar 15-05-2014 19:57

Quote:

Originally Posted by **avk** (Post 149870)
*I updated this version.
./hp-msa.pl fqdn lld returned data, but stats returned 0 and LATEST DATA was no longer change.
I installed the old version of the script. ./hp-msa.pl fqdn lld returned data and stats returned 0 and LATEST DATA was started change.*

Yes I'm having problems with the new version as well.

elvar 15-05-2014 20:00

Quote:

Originally Posted by **dish** (Post 149677)
Template update with disk and enclosures status monitoring support

I'm seeing the following with this version...

```
hp-msa.pl["{HOST.DNS1}","stats"] error: Received value [] is not suitable for value type [Numeric (unsigned)] and data type [Decimal]
```

Edit1: My discovery item shows this error - "Value should be a JSON object."

MyLO

15-05-2014 22:16

ssl

One problem:

LWP::Protocol::https::Socket: SSL connect attempt failed because of handshake problems error:140943FC:SSL routines:SSL3_READ_BYTES:ssl3 alert bad record mac at /usr/local/share/perl/5.14.2/LWP/Protocol/http.pm line 41.

Solution:

Insert "use Net::SSL;" on top of script (install by cpan or other)

and modify

```
my $ua = LWP::UserAgent->new;
```

by

```
my $ua = LWP::UserAgent->new(ssl_opts => { verify_hostname => 0 });
```

But my problem is the stat = 0 ...

Thanks

elvar

17-05-2014 08:01

1 Attachment(s)

I managed to get an updated version working however, I do not think Dish's updated version of the original script & template will work due to what I believe is the inability to mix and match macro names (thanks to Volter for pointing this out) such as in the example at https://www.zabbix.com/documentation...evel_discovery. In their example they are all the same down each column.

Attached is an updated version of the original script provided by OP which just contains the extra enclosure and disk elements. I then added the following prototype item...

Code:

```
Name: $1 $2 health
Type: Zabbix trapper
Key: hp.p2000.stats[{#HP_P2000_TYPE},{#HP_P2000_ID},health]
Type of Information: Text
```

Regards,

AmPheT

19-08-2014 15:09

Hi,

Thanks for your script, i tried it today and it works fine except i have some trouble with controllers and enclosure status.

I can see the items so that means discovery is ok but no data for those, the others items like disk, speed etc.. are ok. I have no errors from zabbix server logs, no timeout, i am monitoring two differents enclosure with two differents firmware and same for both.

Thanks for your help.

vymysleny

26-09-2014 15:36

Import problem

Hello

When I imported template to zabbix 2.2 , 7 application folder was created , but only one item. As I saw on one screen, there have to be lot of paarameters (and according XML too). Is there any problem with importing 2.0 template to 2.2 zabbix.

nilldot

30-09-2014 17:58

from log>> timeout while executing a shell

HP P2000 MSM SAS:hp-msa.pl["{HOST.CONN}","lld"] became not supported: timeout while executing a shell script

HP P2000 MSM SAS:hp-msa.pl["{HOST.CONN}"] changed: time-out while executing a shell script

I though something wrong with {HOST.X} part, thus replaced this part with IP address, still no luck.

Any help?
Thanks

Env.
Zabbix 2.2.6
CentOS release 6.5 (Final)

Update

Timeout were sorted out by increasing timeout value to 30 in the zabbix config file. Though, I still can see some timeouts.

But all my graphs are empty!

On emore thing, I can't see file /var/tmp/zabbixSender* being created!

ViktorJJ

01-02-2015 19:14

Hp msa 2000 g2

Just a note:
to get authenticated on MSA G2 arrays (2312, 2324, etc.) you need add a cookie to request:

Quote:

```
$req->header('Cookie' => "wbiusername=$USERNAME; wbisessionkey=$sessionKey" );
```

and there is no performance data in G2 arrays API. :(

winsash

19-02-2015 16:16

stats results 0

Hello all!

My system is:

- OS: Ubuntu 14.04
- Zabbix Server 2.4.3
- Zabbix-Sender 2.4.3
- Zabbix-Get 2.4.3

When I run pl-script with key "stats", it returns result "0".

When I comment string

PHP Code:

```
die "Can not remove file $sendFile!" unless(unlink ($sendFile));
```

and run pl-script again, I see file zabbixSenderHPP2000_ %hostname%_ in folder /var/tmp and this file contains data.

When I try manually use zabbix-sender like this:

PHP Code:

```
zabbix_sender -c /etc/zabbix/zabbix_agentd.conf -i /var/tmp/zabbixSenderHPP2000_%hostname%
```

I have these results:

PHP Code:

```
info from server: "processed: 0; failed: 55; total: 55; seconds spent: 0.000757"
sent: 55; skipped: 0; total: 55
```

It log files in zabbix server I have no errors about P2000 items.

Whan can it be?

Thank you!

P.S. Sorry for my bad English.

adambmedent

24-02-2015 15:41

I am running into the same issue.

```
[root@zabbix externalscripts]# ./hp-msa.pl cloudst1a stats
```

0

I can also comment out.

die "Can not remove file \$sendFile!" unless(unlink (\$sendFile));

Then I end up with a /var/tmp/zabbixSenderHPP2000_cloudst1a_3719 which has good info. Just not sure what the issue is.

crispytown

25-02-2015 20:15

1 Attachment(s)

I had the same issues with the files being created but not importing the data.

Code:

```
info from server: "processed: 0; failed: 55; total: 55; seconds spent: 0.000757"
sent: 55; skipped: 0; total: 55
```

What I did to get it to work was make sure in the configuration for the host... that the "Host Name" is the spelled the same as the Agent interfaces "DNS Name". See Capture.jpg

adambmedent

26-02-2015 13:44

Quote:

Originally Posted by **crispytown** (Post 162586)

I had the same issues with the files being created but not importing the data.

Code:

```
info from server: "processed: 0; failed: 55; total: 55; seconds spent: 0.000757"
sent: 55; skipped: 0; total: 55
```

What I did to get it to work was make sure in the configuration for the host... that the "Host Name" is the spelled the same as the Agent interfaces "DNS Name". See Capture.jpg

I gave it a shot but I still just get a value of 0.

undisSss

02-03-2015 11:32

I have set HP p2000 g3 iSCSI storage monitoring. In two weeks Access to the storage via http https got lost.controller restart works to help. There are a lot of people in the Internet with the same problem but no solution. Has anyone experienced the same problem? Should I update firmware? Current version TS220R004.

winsash

04-03-2015 14:12

1 Attachment(s)

Quote:

Originally Posted by **crispytown** (Post 162586)

I had the same issues with the files being created but not importing the data.

Code:

```
info from server: "processed: 0; failed: 55; total: 55; seconds spent: 0.000757"
sent: 55; skipped: 0; total: 55
```

What I did to get it to work was make sure in the configuration for the host... that the "Host Name" is the spelled the same as the Agent interfaces "DNS Name". See Capture.jpg

Hello, Crispytown!

Unfourtunately, your solution didn't take effect for me. I still have "0", when I run script. And if I try start manually Zabbix_sender:

PHP Code:

```
zabbix_sender -c /etc/zabbix/zabbix_agentd.conf -i /var/tmp/zabbixSenderHPP2000_pmt-p2000.pmt.loc_30085
```

I have the same error:

PHP Code:

```
info from server: "processed: 0; failed: 55; total: 55; seconds spent: 0.001006"
sent: 55; skipped: 0; total: 55
```

:({

aglees_esy

30-03-2015 18:34

Quote:

Originally Posted by **winsash** (Post 162848)
Hello, Crispytown!

Unfourtunately, your solution didn't take effect for me. I still have "0", when I run script. And if I try start manually Zabbix_sender:

PHP Code:

```
zabbix_sender -c /etc/zabbix/zabbix_agentd.conf -i /var/tmp/zabbixSenderHPP2000_pmt-p2000.pmt.loc_30085
```

I have the same error:

PHP Code:

```
info from server: "processed: 0; failed: 55; total: 55; seconds spent: 0.001006"
sent: 55; skipped: 0; total: 55
```

:({

I tried removing the

Code:

```
$type
```

variable from the following line, and now it works albeit the individual disk health sensors don't work

line 88 (sub getZabbixValues)

Code:

```
$outputString .= "$hostname hp.p2000.stats[$type,$key,$itemKey] $colHash->{$key}->{$itemKey}\n";
```

Was looking at how the Zabbix-Sender works, and I think that

Code:

```
$type
```

variable throws it off.

Interrupt

30-03-2015 20:44

Hash

Hello

Thx for making this template for the HP P2000.

I have a bit of a problem installing this template.

I'm still getting the "**Can't use string ("status") as a HASH ref while "strict refs" in use at /etc/zabbix/externalscripts/hp-msa.pl line 60**" error.

i tried to install the IO::Socket::SSL but is was already installed.

Anyone else got this issue?

Ubuntu 14.04

Zabbix 2.4.4

Perl 5.18.2

aglees_esy

31-03-2015 14:36

Quote:

Originally Posted by **Interrupt** (Post 164119)
Hello

Thx for making this template for the HP P2000.

I have a bit of a problem installing this template.

*I'm still getting the "**Can't use string ("status") as a HASH ref while "strict refs" in use at /etc/zabbix/externalscripts/hp-msa.pl line 60**" error.*

i tried to install the IO::Socket::SSL but is was already installed.

Anyone else got this issue?

Ubuntu 14.04

Zabbix 2.4.4

Perl 5.18.2

That error rings a bell with me. You installed the JSON components?

All times are GMT +2. The time now is 14:56.

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- **Zabbix Cookbook** (<http://www.zabbix.com/forum/forumdisplay.php?f=11>)

- **HP P2000 G3 monitoring (Zabbix 2.0)** (<http://www.zabbix.com/forum/showthread.php?t=26572>)

aglees_esy

31-03-2015 14:40

Code:

```
Could not open file /var/tmp/zabbix/zabbixSenderHP[removed by me]_22091 at
/usr/share/zabbix/externalscripts/hp-msa.pl line 165.
```

I'm getting the above when the sensor item runs. Weird thing is that when I run the script from the shell it works perfectly - even the disk health sensors.

Any ideas on what might be going wrong?

I thought it might be permissions on the /var/tmp/zabbix folder, but everything is allowed. I thought it might be the Agentd timeout on processing, so set that to 10 seconds. No dice.

Interrupt

31-03-2015 16:14

Quote:

Originally Posted by **aglees_esy** (Post 164172)
That error rings a bell with me. You installed the JSON components?

This is installed ...
(sudo apt-get install libjson-perl => libjson-perl is already the newest version.)

DataPro

18-06-2015 16:26

syntax error

Hi! Does anyone know how to fix it:

syntax error at line 1, column 0, byte 0 at /usr/lib64/perl5/XML/Parser.pm line 187

Running CentOS 6.3 x86_64

Ordnas

26-06-2015 18:10

The name or service not known

Hello

thanks for this Template. About i have a Problem.
when I run the script:
./hp-msa.pl STORAGE01LAN1 stats

come following:

File does not exist: Can't connect to STORAGE01LAN1:443

Der Name oder der Dienst ist nicht bekannt at /usr/share/perl5/LWP/Protocol/http.pm line 49.
at ./hp-msa.pl line 122.

Ping and NSLookup is ok. Missing a Libery?

Bladman

30-07-2015 16:47

I have this issue:

```
/etc/zabbix/externalscripts# zabbix_sender -c /etc/zabbix/zabbix_agentd.conf -i  
/tmp/zabbixSenderHPP2000_HOSTNAME_15863 -vv  
zabbix_sender [15953]: DEBUG: answer [{"response":"success","info":"processed: 0; failed: 115;  
total: 115; seconds spent: 0.001361"}]  
info from server: "processed: 0; failed: 115; total: 115; seconds spent: 0.001361"
```

Could someone help me out?

I have the ServerActive directive in my agentd.conf.

VBochkov

07-09-2015 10:59

Quote:

Originally Posted by **Bladman** (Post 169837)

I have this issue:

```
/etc/zabbix/externalscripts# zabbix_sender -c /etc/zabbix/zabbix_agentd.conf -i  
/tmp/zabbixSenderHPP2000_HOSTNAME_15863 -vv  
zabbix_sender [15953]: DEBUG: answer [{"response":"success","info":"processed: 0; failed:  
115; total: 115; seconds spent: 0.001361"}]  
info from server: "processed: 0; failed: 115; total: 115; seconds spent: 0.001361"
```

Could someone help me out?

I have the ServerActive directive in my agentd.conf.

I have just the same issue!
Any ideas?

dima_dm

11-09-2015 10:05

1) Chek Hostname (case sensitive) MSA P2000 in zabbix server and in file
zabbixSenderHPP2000_HOSTNAME_15863. Add MSA P2000 in /etc/hosts with correct name.
2) Check that the LLD works, and this items (from file zabbixSenderHPP2000_HOSTNAME_15863)
exists in zabbix.

davidking

16-09-2015 10:50

both new scripts not working

original one never get working, always return 0. Tried using both new scripts, but gets the following
error when manually run hp-msa.pl hostname stats:

Pseudo-hashes are deprecated at ./hp-msa.pl.1 line 63.

Argument "\x{72}\x{65}..." isn't numeric in hash element at ./hp-msa.pl.1 line 63.

Bad index while coercing array into hash at ./hp-msa.pl.1 line 63.

any idea?

varnav

03-03-2016 10:06

Hello!

We've adapted this script for MSA 2040.

Please see:

<https://share.zabbix.com/storage-devices/hp/hp-msa>
<https://www.zabbix.com/forum/showthread.php?p=176984>

Drevonovic

08-03-2016 15:38

Hi everybody

I'm really new with this Zabbix thing and not the biggest hero with Debian either, but can someone like explain me how to configure all of this?

I'm trying to get this monitoring thing going on our P2000 G3, but I'm stuck. Is this template for SNMP Traps or SNMPv2 Agent? How do I install and use this template properly to monitor disk status? Do I have to change something in my .conf files to get this going or is just importing the template with the script enough?

Again my apologies for asking such a trivial question, but I'd really appreciate the help since I'm looking for some proper guidance for days now. :confused::confused:

Appreciated! :D

Drevonovic

25-03-2016 17:15

Quote:

Originally Posted by **Drevonovic** (Post 179565)
Hi everybody

I'm really new with this Zabbix thing and not the biggest hero with Debian either, but can someone like explain me how to configure all of this?

I'm trying to get this monitoring thing going on our P2000 G3, but I'm stuck. Is this template for SNMP Traps or SNMPv2 Agent? How do I install and use this template properly to monitor disk status? Do I have to change something in my .conf files to get this going or is just importing the template with the script enough?

Again my apologies for asking such a trivial question, but I'd really appreciate the help since I'm looking for some proper guidance for days now. :confused::confused:

Appreciated! :D

Ignore this post. I managed to get the script going. Only I'm getting the same error over and over again which makes the item go unsupported

Code:

```
[File does not exist: Can't connect to {HOST.DNS1}:80 (Bad
hostname)LWP::Protocol::http::Socket: Bad hostname '{HOST.DNS1}' at
/usr/share/perl5/LWP/Protocol/http.pm line 51. at
/usr/lib/zabbix/externalscripts/hp-msa.pl line 122
```

My host has both an IP and a DNS name, which are correct. Zabbix connects to the DNS-name and I'm using the agent interface.

Something I'm doing wrong / missing ?

Drevonovic

11-04-2016 11:51

I don't like to bump or spam forum posts, but this is getting rather urgent and I'm not making any progress at all.

Drevonovic

11-04-2016 12:28

Quote:

Originally Posted by **Drevonovic** (Post 181465)

I don't like to bump or spam forum posts, but this is getting rather urgent and I'm not making any progress at all.

Made progress. Username and password were wrong in the script (shame :\$)

cardinal83

14-04-2016 17:08

Hi, Drevonovic.

I use Zabbix3.0.1 and i have same error. I check username/password and its correct (i copy hp-msa.pl from other instance zabbix (v2.4.7), where this scripts is work). From command line this script also work. Not work only from zabbix.

Something I'm doing wrong / missing ?

UPD: problem solved by change {HOST.DNS1} to {HOST.DNS}.

arul_prasad82

26-04-2016 15:17

Emir Imamagic,

I am getting output when I run the command in CLI.

./hp-msa.pl <IP ADDRESS> lld vdisk

```
{
  "data" : [
    {
      "{#HP_P2000_TYPE}" : "Controller",
      "{#HP_P2000_ID}" : "controller_a"
    },
    {
      "{#HP_P2000_TYPE}" : "Controller",
      "{#HP_P2000_ID}" : "controller_b"
    },
    {
      "{#HP_P2000_TYPE}" : "Vdisk",
      "{#HP_P2000_ID}" : "vd07"
    },
    {
      "{#HP_P2000_TYPE}" : "Vdisk",
      "{#HP_P2000_ID}" : "vddldr"
    },
    {
```

```
"{#HP_P2000_TYPE}" : "Vdisk",  
"{#HP_P2000_ID}" : "vd04"  
},  
{  
  "{#HP_P2000_TYPE}" : "Vdisk",  
  "{#HP_P2000_ID}" : "vd08"  
},  
]
```

Not getting output in Zabbix, found below error in log file, please guide me on this.

End of lld_rows_get():FAIL

Thanks

All times are GMT +2. The time now is 14:56.

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