Uptime – Solaris zpool status plugin documentation

About the plugin

The uptime solaris nfsstat plugin monitors the following parameters

Pool Capacity Stats: Entire pool capacity stats including how much space were used upon the sampling and how much was available

Read/Write Operation: How many reads and writes operations performed during the interval time

Bandwidth: Bandwidth used for reading from this pools and writing

This plugin consists of two scripts and one XML file.

1) zpoolstat.sh– The main script which is called by the plugin
2) zpoolstat.php – The php file which obtains the output from solaris and processes the same for the plugin.
3) MonitorZPOOL-Status-Monitor.xml – The xml file for uploading the plugin and configuring service monitors.

Preliminary setup in Solaris server :

The most recent compatible version of the uptime agent should be installed in the Solaris server for which the nfsstat monitor is being configured. The following two step process has to be done on the solaris server after installing the uptime agent :

Step 1) Create a script for zpool status execution :- Within the solaris server, create a simple script with the following contents :

#!/bin/bash
/usr/sbin/zpool iostat -v

Note : The location of the script should preferably be at : /opt/uptime-agent/scripts
For documentation purpose we assume that this script is named as test2.sh

Step 2) Make an entry in the */opt/uptime-agent/bin/*.uptmpasswd file with a password and corresponding script. The entry should be in the following format :

testsecret1 /opt/uptime-agent/scripts/test2.sh

Note : Here “testsecret1” is the agent password for the script “/opt/uptime-agents/scripts/test2.sh”

Setting up the plugin in uptime :

Step1) Place the scripts (zpoolstat.sh and zpoolstat.php) in the uptime scripts directory (/usr/local/uptime/scripts). Ensure that their permission and ownership are set appropriately.

Step2) Place the XML (MonitorZPOOL-Status-Monitor.xml) in the xml directory (/usr/local/uptime/xml).

Step3) Import the plugin using the erdcloader script.

Step4) Add a service monitor from the uptime GUI. Please provide the following when configuring the monitor :

Agent port : 9998
Host : 10.1.1.82
Agent password : testsecret1
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Script : /opt/uptime-agent/scripts/test2.sh

Note : The above are test data give here for documentation purpose.

Step 5) Test the monitor to obtain the output.

Note : The variable declaration and command execution in the php script is done using the following code :

```
$port = $_SERVER['UPTIME_UPTIME_PORT'];
$host = $_SERVER['UPTIME_UPTIME_HOSTNAME'];
$pass = $_SERVER['UPTIME_UPTIME_ZPOOL_PASSWORD'];
$scri = $_SERVER['UPTIME_UPTIME_ZPOOL_SCRIPT'];
$cmd = "/usr/local/uptime/scripts/agentcmd -p $port $host rexec $pass $scri";
```