

Java 8 GC1 JMX monitoring template

JMX monitoring template for Zabbix 2.x and Java 1.8.0 G1 example

[jdk8_g1_zabbix_jmx_template.xml](#)

zbx_export.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<zabbix_export>
  <version>2.0</version>
  <date>2016-11-09T16:23:54Z</date>
  <groups>
    <group>
      <name>Templates</name>
    </group>
    <group>
      <name>Templates</name>
    </group>
  </groups>
  <templates>
    <template>
      <template>Template JMX G1</template>
      <name>Template JMX G1</name>
      <description/>
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        <group>
          <name>Templates</name>
        </group>
      </groups>
      <applications>
        <application>
          <name>Classes</name>
        </application>
        <application>
          <name>Compilation</name>
        </application>
        <application>
          <name>Garbage Collector</name>
        </application>
        <application>
          <name>Memory</name>
        </application>
        <application>
          <name>Memory Pool</name>
        </application>
        <application>
          <name>Operating System</name>
        </application>
        <application>
          <name>Runtime</name>
        </application>
        <application>
          <name>Threads</name>
        </application>
      </applications>
      <items>
        <item>
          <name>c1 Loaded Class Count</name>
          <type>16</type>
          <snmp_community/>
          <multiplier>0</multiplier>
          <snmp_oid/>
          <key>jmx[&quot;java.lang:type=ClassLoading&quot;;LoadedClassCount]</key>
          <delay>60</delay>
          <history>7</history>
          <trends>365</trends>
          <status>0</status>
          <value_type>3</value_type>
        </item>
      </items>
    </template>
  </templates>
</zabbix_export>
```

```

<allowed_hosts/>
<units/>
<delta>0</delta>
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<snmpv3_securityname/>
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<snmpv3_privprotocol>0</snmpv3_privprotocol>
<snmpv3_privpassphrase/>
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<params/>
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<authtype>0</authtype>
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<password></password>
<publickey/>
<privatekey/>
<port/>
<description/>
<inventory_link>0</inventory_link>
<applications>
  <application>
    <name>Classes</name>
  </application>
</applications>
<valuemap/>
<logtimefmt/>
</item>
<item>
  <name>c1 Total Loaded Class Count</name>
  <type>16</type>
  <snmp_community/>
  <multiplier>0</multiplier>
  <snmp_oid/>
  <key>jmx[&quot;java.lang:type=ClassLoading&quot;;TotalLoadedClassCount]</key>
  <delay>60</delay>
  <history>7</history>
  <trends>365</trends>
  <status>0</status>
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  <units/>
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  <snmpv3_securitylevel>0</snmpv3_securitylevel>
  <snmpv3_authprotocol>0</snmpv3_authprotocol>
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  <snmpv3_privpassphrase/>
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  <password></password>
  <publickey/>
  <privatekey/>
  <port/>
  <description/>
  <inventory_link>0</inventory_link>
  <applications>
    <application>
      <name>Classes</name>
    </application>
  </applications>

```

```

        <valuemap/>
        <logtimefmt/>
    </item>
    <item>
        <name>cl Unloaded Class Count</name>
        <type>16</type>
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        <multiplier>0</multiplier>
        <snmp_oid/>
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        <status>0</status>
        <value_type>3</value_type>
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        <snmpv3_securityname/>
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        <snmpv3_authprotocol>0</snmpv3_authprotocol>
        <snmpv3_authpassphrase/>
        <snmpv3_privprotocol>0</snmpv3_privprotocol>
        <snmpv3_privpassphrase/>
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        <authtype>0</authtype>
        <username></username>
        <password></password>
        <publickey/>
        <privatekey/>
        <port/>
        <description/>
        <inventory_link>0</inventory_link>
        <applications>
            <application>
                <name>Classes</name>
            </application>
        </applications>
        <valuemap/>
        <logtimefmt/>
    </item>
    <item>
        <name>comp Accumulated time spent in compilation</name>
        <type>16</type>
        <snmp_community/>
        <multiplier>1</multiplier>
        <snmp_oid/>
        <key>jmx[&quot;java.lang:type=Compilation&quot;;TotalCompilationTime]</key>
        <delay>60</delay>
        <history>7</history>
        <trends>365</trends>
        <status>0</status>
        <value_type>0</value_type>
        <allowed_hosts/>
        <units>s</units>
        <delta>0</delta>
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        <snmpv3_securityname/>
        <snmpv3_securitylevel>0</snmpv3_securitylevel>
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        <snmpv3_privprotocol>0</snmpv3_privprotocol>
        <snmpv3_privpassphrase/>
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        <params/>

```

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  <application>
    <name>Compilation</name>
  </application>
</applications>
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<logtimefmt/>
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<item>
  <name>comp Name of the current JIT compiler</name>
  <type>16</type>
  <snmp_community/>
  <multiplier>0</multiplier>
  <snmp_oid/>
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  <trends>365</trends>
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  <units/>
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  <snmpv3_securityname/>
  <snmpv3_securitylevel>0</snmpv3_securitylevel>
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      <name>Compilation</name>
    </application>
  </applications>
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  <logtimefmt/>
</item>
<item>
  <name>gc G1 Old Generation accumulated time spent in collection</name>
  <type>16</type>
  <snmp_community/>
  <multiplier>1</multiplier>
  <snmp_oid/>
  <key>jmx[&quot;java.lang:type=GarbageCollector,name=G1 Old Generation&quot;;CollectionTime]<
/ key>
  <delay>60</delay>
  <history>7</history>

```

```

<trends>365</trends>
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<params/>
<ipmi_sensor/>
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<authtype>0</authtype>
<username></username>
<password></password>
<publickey/>
<privatekey/>
<port/>
<description/>
<inventory_link>0</inventory_link>
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  <application>
    <name>Garbage Collector</name>
  </application>
</applications>
<valuemap/>
<logtimefmt/>
</item>
<item>
  <name>gc G1 Old Generation number of collections per second</name>
  <type>16</type>
  <snmp_community/>
  <multiplier>0</multiplier>
  <snmp_oid/>
  <key>jmx[&quot;java.lang:type=GarbageCollector,name=G1 Old Generation&quot;;,CollectionCount]

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  <history>7</history>
  <trends>365</trends>
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  <password></password>
  <publickey/>
  <privatekey/>
  <port/>
  <description/>
  <inventory_link>0</inventory_link>
  <applications>

```

```

        <application>
            <name>Garbage Collector</name>
        </application>
    </applications>
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    <logtimefmt/>
</item>
<item>
    <name>gc G1 Young Generation accumulated time spent in collection</name>
    <type>16</type>
    <snmp_community/>
    <multiplier>1</multiplier>
    <snmp_oid/>
    <key>jmx[&quot;java.lang:type=GarbageCollector,name=G1 Young Generation&quot;;
CollectionTime]</key>
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    <history>7</history>
    <trends>365</trends>
    <status>0</status>
    <value_type>0</value_type>
    <allowed_hosts/>
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    <delta>0</delta>
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    <snmpv3_securityname/>
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    <snmpv3_authpassphrase/>
    <snmpv3_privprotocol>0</snmpv3_privprotocol>
    <snmpv3_privpassphrase/>
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    <delay_flex/>
    <params/>
    <ipmi_sensor/>
    <data_type>0</data_type>
    <authtype>0</authtype>
    <username></username>
    <password></password>
    <publickey/>
    <privatekey/>
    <port/>
    <description/>
    <inventory_link>0</inventory_link>
    <applications>
        <application>
            <name>Garbage Collector</name>
        </application>
    </applications>
    <valuemap/>
    <logtimefmt/>
</item>
<item>
    <name>gc G1 Young Generation number of collections per second</name>
    <type>16</type>
    <snmp_community/>
    <multiplier>0</multiplier>
    <snmp_oid/>
    <key>jmx[&quot;java.lang:type=GarbageCollector,name=G1 Young Generation&quot;;
CollectionCount]</key>
    <delay>60</delay>
    <history>7</history>
    <trends>365</trends>
    <status>0</status>
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    <units/>
    <delta>1</delta>
    <snmpv3_contextname/>
    <snmpv3_securityname/>
    <snmpv3_securitylevel>0</snmpv3_securitylevel>
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```

```

<snmpv3_authpassphrase/>
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<snmpv3_privpassphrase/>
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<authtype>0</authtype>
<username></username>
<password></password>
<publickey/>
<privatekey/>
<port/>
<description/>
<inventory_link>0</inventory_link>
<applications>
  <application>
    <name>Garbage Collector</name>
  </application>
</applications>
<valuemap/>
<logtimefmt/>
</item>
<item>
  <name>jvm Name</name>
  <type>16</type>
  <snmp_community/>
  <multiplier>0</multiplier>
  <snmp_oid/>
  <key>jmx[&quot;java.lang:type=Runtime&quot;;VmName]</key>
  <delay>3600</delay>
  <history>7</history>
  <trends>365</trends>
  <status>0</status>
  <value_type>1</value_type>
  <allowed_hosts/>
  <units/>
  <delta>0</delta>
  <snmpv3_contextname/>
  <snmpv3_securityname/>
  <snmpv3_securitylevel>0</snmpv3_securitylevel>
  <snmpv3_authprotocol>0</snmpv3_authprotocol>
  <snmpv3_authpassphrase/>
  <snmpv3_privprotocol>0</snmpv3_privprotocol>
  <snmpv3_privpassphrase/>
  <formula>1</formula>
  <delay_flex/>
  <params/>
  <ipmi_sensor/>
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  <authtype>0</authtype>
  <username></username>
  <password></password>
  <publickey/>
  <privatekey/>
  <port/>
  <description/>
  <inventory_link>0</inventory_link>
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    <application>
      <name>Runtime</name>
    </application>
  </applications>
  <valuemap/>
  <logtimefmt/>
</item>
<item>
  <name>jvm Uptime</name>
  <type>16</type>
  <snmp_community/>

```

```

<multiplier>1</multiplier>
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<key>jmx["; java.lang:type=Runtime"; Uptime]</key>
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<history>7</history>
<trends>365</trends>
<status>0</status>
<value_type>3</value_type>
<allowed_hosts/>
<units>uptime</units>
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<snmpv3_securityname/>
<snmpv3_securitylevel>0</snmpv3_securitylevel>
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<snmpv3_authpassphrase/>
<snmpv3_privprotocol>0</snmpv3_privprotocol>
<snmpv3_privpassphrase/>
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<params/>
<ipmi_sensor/>
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<auth_type>0</auth_type>
<username></username>
<password></password>
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<privatekey/>
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  <application>
    <name>Runtime</name>
  </application>
</applications>
<valuemap/>
<logtimefmt/>
</item>
<item>
  <name>jvm Version</name>
  <type>16</type>
  <snmp_community/>
  <multiplier>0</multiplier>
  <snmp_oid/>
  <key>jmx["; java.lang:type=Runtime"; VmVersion]</key>
  <delay>3600</delay>
  <history>7</history>
  <trends>365</trends>
  <status>0</status>
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  <units/>
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  <snmpv3_securityname/>
  <snmpv3_securitylevel>0</snmpv3_securitylevel>
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  <snmpv3_privprotocol>0</snmpv3_privprotocol>
  <snmpv3_privpassphrase/>
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  <delay_flex/>
  <params/>
  <ipmi_sensor/>
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  <auth_type>0</auth_type>
  <username></username>
  <password></password>
  <publickey/>
  <privatekey/>

```



```

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            <name>Runtime</name>
        </application>
    </applications>
    <valuemap/>
    <logtimefmt/>
</item>
<item>
    <name>mem Heap Memory committed</name>
    <type>16</type>
    <snmp_community/>
    <multiplier>0</multiplier>
    <snmp_oid/>
    <key>jmx[&quot;java.lang:type=Memory&quot;;HeapMemoryUsage.committed]</key>
    <delay>60</delay>
    <history>7</history>
    <trends>365</trends>
    <status>0</status>
    <value_type>3</value_type>
    <allowed_hosts/>
    <units>B</units>
    <delta>0</delta>
    <snmpv3_contextname/>
    <snmpv3_securityname/>
    <snmpv3_securitylevel>0</snmpv3_securitylevel>
    <snmpv3_authprotocol>0</snmpv3_authprotocol>
    <snmpv3_authpassphrase/>
    <snmpv3_privprotocol>0</snmpv3_privprotocol>
    <snmpv3_privpassphrase/>
    <formula>1</formula>
    <delay_flex/>
    <params/>
    <ipmi_sensor/>
    <data_type>0</data_type>
    <auth_type>0</auth_type>
    <username></username>
    <password></password>
    <publickey/>
    <privatekey/>
    <port/>
    <description/>
    <inventory_link>0</inventory_link>
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        <application>
            <name>Memory</name>
        </application>
    </applications>
    <valuemap/>
    <logtimefmt/>
</item>
<item>
    <name>mem Heap Memory max</name>
    <type>16</type>
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    <multiplier>0</multiplier>
    <snmp_oid/>
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    <delay>3600</delay>
    <history>7</history>
    <trends>365</trends>
    <status>0</status>
    <value_type>3</value_type>
    <allowed_hosts/>
    <units>B</units>
    <delta>0</delta>
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    <snmpv3_securityname/>

```

```

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<snmpv3_authpassphrase/>
<snmpv3_privprotocol>0</snmpv3_privprotocol>
<snmpv3_privpassphrase/>
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<params/>
<ipmi_sensor/>
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<authtype>0</authtype>
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<password></password>
<publickey/>
<privatekey/>
<port/>
<description/>
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    <name>Memory</name>
  </application>
</applications>
<valuemap/>
<logtimefmt/>
</item>
<item>
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  <snmp_community/>
  <multiplier>0</multiplier>
  <snmp_oid/>
  <key>jmx[&quot;java.lang:type=Memory&quot;;HeapMemoryUsage.used]</key>
  <delay>60</delay>
  <history>7</history>
  <trends>365</trends>
  <status>0</status>
  <value_type>3</value_type>
  <allowed_hosts/>
  <units>B</units>
  <delta>0</delta>
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  <snmpv3_securityname/>
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  <snmpv3_privprotocol>0</snmpv3_privprotocol>
  <snmpv3_privpassphrase/>
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  <ipmi_sensor/>
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    </application>
  </applications>
  <valuemap/>
  <logtimefmt/>
</item>
<item>
  <name>mem Non-Heap Memory committed</name>

```

```

<type>16</type>
<snmp_community/>
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<snmp_oid/>
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<delay>60</delay>
<history>7</history>
<trends>365</trends>
<status>0</status>
<value_type>3</value_type>
<allowed_hosts/>
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<snmpv3_securityname/>
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<snmpv3_authprotocol>0</snmpv3_authprotocol>
<snmpv3_authpassphrase/>
<snmpv3_privprotocol>0</snmpv3_privprotocol>
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<username></username>
<password></password>
<publickey/>
<privatekey/>
<port/>
<description/>
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<applications>
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  </application>
</applications>
<valuemap/>
<logtimefmt/>
</item>
<item>
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  <snmp_community/>
  <multiplier>0</multiplier>
  <snmp_oid/>
  <key>jmx[&quot;java.lang:type=Memory&quot;;NonHeapMemoryUsage.max]</key>
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  <trends>365</trends>
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  <value_type>3</value_type>
  <allowed_hosts/>
  <units>B</units>
  <delta>0</delta>
  <snmpv3_contextname/>
  <snmpv3_securityname/>
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<auth_type>0</auth_type>
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<password></password>
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<privatekey/>
<port/>
<description/>
<inventory_link>0</inventory_link>
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    <name>Memory Pool</name>
  </application>
</applications>
<valuemap/>
<logtimefmt/>
</item>
<item>
  <name>mp Metaspace committed</name>
  <type>16</type>
  <snmp_community/>
  <multiplier>0</multiplier>
  <snmp_oid/>
  <key>jmx[&quot;java.lang:type=MemoryPool,name=Metaspace&quot;;Usage.committed]</key>
  <delay>60</delay>
  <history>7</history>
  <trends>365</trends>
  <status>0</status>
  <value_type>3</value_type>
  <allowed_hosts/>
  <units>B</units>
  <delta>0</delta>
  <snmpv3_contextname/>
  <snmpv3_securityname/>
  <snmpv3_securitylevel>0</snmpv3_securitylevel>
  <snmpv3_authprotocol>0</snmpv3_authprotocol>
  <snmpv3_authpassphrase/>
  <snmpv3_privprotocol>0</snmpv3_privprotocol>
  <snmpv3_privpassphrase/>
  <formula>1</formula>
  <delay_flex/>
  <params/>
  <ipmi_sensor/>
  <data_type>0</data_type>
  <auth_type>0</auth_type>
  <username></username>
  <password></password>
  <publickey/>
  <privatekey/>
  <port/>
  <description/>
  <inventory_link>0</inventory_link>
  <applications>

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        <application>
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        </application>
    </applications>
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    <logtimefmt/>
</item>
<item>
    <name>mp Metaspace max</name>
    <type>16</type>
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    <multiplier>0</multiplier>
    <snmp_oid/>
    <key>jmx[&quot;java.lang:type=MemoryPool,name=Metaspace&quot;; Usage.max]</key>
    <delay>3600</delay>
    <history>7</history>
    <trends>365</trends>
    <status>0</status>
    <value_type>3</value_type>
    <allowed_hosts/>
    <units>B</units>
    <delta>0</delta>
    <snmpv3_contextname/>
    <snmpv3_securityname/>
    <snmpv3_securitylevel>0</snmpv3_securitylevel>
    <snmpv3_authprotocol>0</snmpv3_authprotocol>
    <snmpv3_authpassphrase/>
    <snmpv3_privprotocol>0</snmpv3_privprotocol>
    <snmpv3_privpassphrase/>
    <formula>1</formula>
    <delay_flex/>
    <params/>
    <ipmi_sensor/>
    <data_type>0</data_type>
    <authtype>0</authtype>
    <username></username>
    <password></password>
    <publickey/>
    <privatekey/>
    <port/>
    <description/>
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    <applications>
        <application>
            <name>Memory Pool</name>
        </application>
    </applications>
    <valuemap/>
    <logtimefmt/>
</item>
<item>
    <name>mp Metaspace used</name>
    <type>16</type>
    <snmp_community/>
    <multiplier>0</multiplier>
    <snmp_oid/>
    <key>jmx[&quot;java.lang:type=MemoryPool,name=Metaspace&quot;; Usage.used]</key>
    <delay>60</delay>
    <history>7</history>
    <trends>365</trends>
    <status>0</status>
    <value_type>3</value_type>
    <allowed_hosts/>
    <units>B</units>
    <delta>0</delta>
    <snmpv3_contextname/>
    <snmpv3_securityname/>
    <snmpv3_securitylevel>0</snmpv3_securitylevel>
    <snmpv3_authprotocol>0</snmpv3_authprotocol>
    <snmpv3_authpassphrase/>
    <snmpv3_privprotocol>0</snmpv3_privprotocol>

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```

        <snmpv3_privpassphrase/>
        <formula>1</formula>
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        <params/>
        <ipmi_sensor/>
        <data_type>0</data_type>
        <authtype>0</authtype>
        <username></username>
        <password></password>
        <publickey/>
        <privatekey/>
        <port/>
        <description/>
        <inventory_link>0</inventory_link>
        <applications>
            <application>
                <name>Memory Pool</name>
            </application>
        </applications>
        <valuemap/>
        <logtimefmt/>
    </item>
    <item>
        <name>os Max File Descriptor Count</name>
        <type>16</type>
        <snmp_community/>
        <multiplier>0</multiplier>
        <snmp_oid/>
        <key>jmx["java.lang:type=OperatingSystem",MaxFileDescriptorCount]</key>
        <delay>3600</delay>
        <history>7</history>
        <trends>365</trends>
        <status>0</status>
        <value_type>3</value_type>
        <allowed_hosts/>
        <units/>
        <delta>0</delta>
        <snmpv3_contextname/>
        <snmpv3_securityname/>
        <snmpv3_securitylevel>0</snmpv3_securitylevel>
        <snmpv3_authprotocol>0</snmpv3_authprotocol>
        <snmpv3_authpassphrase/>
        <snmpv3_privprotocol>0</snmpv3_privprotocol>
        <snmpv3_privpassphrase/>
        <formula>1</formula>
        <delay_flex/>
        <params/>
        <ipmi_sensor/>
        <data_type>0</data_type>
        <authtype>0</authtype>
        <username></username>
        <password></password>
        <publickey/>
        <privatekey/>
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        <description/>
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        <applications>
            <application>
                <name>Operating System</name>
            </application>
        </applications>
        <valuemap/>
        <logtimefmt/>
    </item>
    <item>
        <name>os Open File Descriptor Count</name>
        <type>16</type>
        <snmp_community/>
        <multiplier>0</multiplier>
        <snmp_oid/>

```



```

<key>jmx[&quot;java.lang:type=OperatingSystem&quot;;OpenFileDescriptorCount]</key>
<delay>60</delay>
<history>7</history>
<trends>365</trends>
<status>0</status>
<value_type>3</value_type>
<allowed_hosts/>
<units/>
<delta>0</delta>
<snmpv3_contextname/>
<snmpv3_securityname/>
<snmpv3_securitylevel>0</snmpv3_securitylevel>
<snmpv3_authprotocol>0</snmpv3_authprotocol>
<snmpv3_authpassphrase/>
<snmpv3_privprotocol>0</snmpv3_privprotocol>
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<delay_flex/>
<params/>
<ipmi_sensor/>
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<authtype>0</authtype>
<username></username>
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<publickey/>
<privatekey/>
<port/>
<description/>
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  <application>
    <name>Operating System</name>
  </application>
</applications>
<valuemap/>
<logtimefmt/>
</item>
<item>
  <name>os Process CPU Load</name>
  <type>16</type>
  <snmp_community/>
  <multiplier>1</multiplier>
  <snmp_oid/>
  <key>jmx[&quot;java.lang:type=OperatingSystem&quot;;ProcessCpuLoad]</key>
  <delay>60</delay>
  <history>7</history>
  <trends>365</trends>
  <status>0</status>
  <value_type>0</value_type>
  <allowed_hosts/>
  <units>%</units>
  <delta>0</delta>
  <snmpv3_contextname/>
  <snmpv3_securityname/>
  <snmpv3_securitylevel>0</snmpv3_securitylevel>
  <snmpv3_authprotocol>0</snmpv3_authprotocol>
  <snmpv3_authpassphrase/>
  <snmpv3_privprotocol>0</snmpv3_privprotocol>
  <snmpv3_privpassphrase/>
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  <ipmi_sensor/>
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  <authtype>0</authtype>
  <username/>
  <password/>
  <publickey/>
  <privatekey/>
  <port/>
  <description/>

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  <application>
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  </application>
</applications>
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<logtimefmt/>
</item>
<item>
  <name>th Daemon Thread Count</name>
  <type>16</type>
  <snmp_community/>
  <multiplier>0</multiplier>
  <snmp_oid/>
  <key>jmx[&quot;java.lang:type=Threading&quot;;DaemonThreadCount]</key>
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  <history>7</history>
  <trends>365</trends>
  <status>0</status>
  <value_type>3</value_type>
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  <snmpv3_securityname/>
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  <snmpv3_privprotocol>0</snmpv3_privprotocol>
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  <delay_flex/>
  <params/>
  <ipmi_sensor/>
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  <authtype>0</authtype>
  <username/>
  <password/>
  <publickey/>
  <privatekey/>
  <port/>
  <description/>
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    <application>
      <name>Threads</name>
    </application>
  </applications>
  <valuemap/>
  <logtimefmt/>
</item>
<item>
  <name>th Peak Thread Count</name>
  <type>16</type>
  <snmp_community/>
  <multiplier>0</multiplier>
  <snmp_oid/>
  <key>jmx[&quot;java.lang:type=Threading&quot;;PeakThreadCount]</key>
  <delay>60</delay>
  <history>7</history>
  <trends>365</trends>
  <status>0</status>
  <value_type>3</value_type>
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  <units/>
  <delta>0</delta>
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  <snmpv3_securityname/>
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<snmpv3_authpassphrase/>
<snmpv3_privprotocol>0</snmpv3_privprotocol>
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<port/>
<description/>
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  <application>
    <name>Threads</name>
  </application>
</applications>
<valuemap/>
<logtimefmt/>
</item>
<item>
  <name>th Thread Count</name>
  <type>16</type>
  <snmp_community/>
  <multiplier>0</multiplier>
  <snmp_oid/>
  <key>jmx["<code>java.lang:type=Threading</code>"; ThreadCount]</key>
  <delay>60</delay>
  <history>7</history>
  <trends>365</trends>
  <status>0</status>
  <value_type>3</value_type>
  <allowed_hosts/>
  <units/>
  <delta>0</delta>
  <snmpv3_contextname/>
  <snmpv3_securityname/>
  <snmpv3_securitylevel>0</snmpv3_securitylevel>
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  <snmpv3_privpassphrase/>
  <formula>1</formula>
  <delay_flex/>
  <params/>
  <ipmi_sensor/>
  <data_type>0</data_type>
  <authtype>0</authtype>
  <username/>
  <password/>
  <publickey/>
  <privatekey/>
  <port/>
  <description/>
  <inventory_link>0</inventory_link>
  <applications>
    <application>
      <name>Threads</name>
    </application>
  </applications>
  <valuemap/>
  <logtimefmt/>
</item>
<item>
  <name>th Total Started Thread Count</name>
  <type>16</type>
  <snmp_community/>

```

```

        <multiplier>0</multiplier>
        <snmp_oid/>
        <key>jmx[&quot;java.lang:type=Threading&quot;;TotalStartedThreadCount]</key>
        <delay>60</delay>
        <history>7</history>
        <trends>365</trends>
        <status>0</status>
        <value_type>3</value_type>
        <allowed_hosts/>
        <units/>
        <delta>0</delta>
        <snmpv3_contextname/>
        <snmpv3_securityname/>
        <snmpv3_securitylevel>0</snmpv3_securitylevel>
        <snmpv3_authprotocol>0</snmpv3_authprotocol>
        <snmpv3_authpassphrase/>
        <snmpv3_privprotocol>0</snmpv3_privprotocol>
        <snmpv3_privpassphrase/>
        <formula>1</formula>
        <delay_flex/>
        <params/>
        <ipmi_sensor/>
        <data_type>0</data_type>
        <authtype>0</authtype>
        <username/>
        <password/>
        <publickey/>
        <privatekey/>
        <port/>
        <description/>
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                <name>Threads</name>
            </application>
        </applications>
        <valuemap/>
        <logtimefmt/>
    </item>
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<macros/>
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<screens/>
</template>
</templates>
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    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=Memory&quot;;HeapMemoryUsage.used].last(0)}
&gt;({Template JMX G1:jmx[&quot;java.lang:type=Memory&quot;;HeapMemoryUsage.max].last(0)}*0.8)</expression>
        <name>70% mem Heap Memory used on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>3</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=Memory&quot;;NonHeapMemoryUsage.used].last(0)}
&gt;({Template JMX G1:jmx[&quot;java.lang:type=Memory&quot;;NonHeapMemoryUsage.max].last(0)}*0.8)</expression>
        <name>70% mem Non-Heap Memory used on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>3</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=Code Cache&quot;;Usage.used].

```

```

last(0)}>({Template JMX G1:jmx["java.lang:type=MemoryPool,name=Code Cache";Usage.max].last(0)}*0.8)
</expression>
    <name>80% mp Code Cache used on {HOST.NAME}</name>
    <url/>
    <status>0</status>
    <priority>3</priority>
    <description/>
    <type>0</type>
    <dependencies/>
</trigger>
<trigger>
    <expression>{Template JMX G1:jmx["java.lang:type=MemoryPool,name=Compressed Class Space";,
Usage.used].last(0)}>({Template JMX G1:jmx["java.lang:type=MemoryPool,name=Compressed Class Space";,
Usage.max].last(0)}*0.8)</expression>
    <name>80% mp Compressed Class Space used on {HOST.NAME}</name>
    <url/>
    <status>0</status>
    <priority>3</priority>
    <description/>
    <type>0</type>
    <dependencies/>
</trigger>
<trigger>
    <expression>{Template JMX G1:jmx["java.lang:type=MemoryPool,name=G1 Eden Space";Usage.
used].last(0)}>({Template JMX G1:jmx["java.lang:type=MemoryPool,name=G1 Eden Space";Usage.max].last
(0)}*0.8)</expression>
    <name>80% mp G1 Eden Space used on {HOST.NAME}</name>
    <url/>
    <status>0</status>
    <priority>3</priority>
    <description/>
    <type>0</type>
    <dependencies/>
</trigger>
<trigger>
    <expression>{Template JMX G1:jmx["java.lang:type=MemoryPool,name=G1 Old Gen";Usage.used].
last(0)}>({Template JMX G1:jmx["java.lang:type=MemoryPool,name=G1 Old Gen";Usage.max].last(0)}*0.8)
</expression>
    <name>80% mp G1 Old Gen used on {HOST.NAME}</name>
    <url/>
    <status>0</status>
    <priority>3</priority>
    <description/>
    <type>0</type>
    <dependencies/>
</trigger>
<trigger>
    <expression>{Template JMX G1:jmx["java.lang:type=MemoryPool,name=G1 Survivor Space";Usage.
used].last(0)}>({Template JMX G1:jmx["java.lang:type=MemoryPool,name=G1 Survivor Space";Usage.max].
last(0)}*0.8)</expression>
    <name>80% mp G1 Survivor Space used on {HOST.NAME}</name>
    <url/>
    <status>0</status>
    <priority>3</priority>
    <description/>
    <type>0</type>
    <dependencies/>
</trigger>
<trigger>
    <expression>{Template JMX G1:jmx["java.lang:type=MemoryPool,name=Metaspace";Usage.used].
last(0)}>({Template JMX G1:jmx["java.lang:type=MemoryPool,name=Metaspace";Usage.max].last(0)}*0.8)
</expression>
    <name>80% mp Metaspace used on {HOST.NAME}</name>
    <url/>
    <status>0</status>
    <priority>3</priority>
    <description/>
    <type>0</type>
    <dependencies/>
</trigger>
<trigger>

```

```

        <expression>{Template JMX G1:jmx[&quot;java.lang:type=OperatingSystem&quot;;
OpenFileDescriptorCount].last(0)}>({Template JMX G1:jmx[&quot;java.lang:type=OperatingSystem&quot;;
MaxFileDescriptorCount].last(0)}*0.8)</expression>
        <name>80% os Opened File Descriptor Count used on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>3</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=OperatingSystem&quot;;ProcessCpuLoad].last(0)}
        >0.7</expression>
        <name>80% os Process CPU Load on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>3</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=GarbageCollector,name=G1 Young
Generation&quot;;CollectionCount].last(0)}&lt;{Template JMX G1:jmx[&quot;java.lang:type=GarbageCollector,
name=G1 Old Generation&quot;;CollectionCount].last(0)}</expression>
        <name>gc G1 in fire fighting mode on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>3</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=Runtime&quot;;Uptime].nodata(5m)}=1<
/expression>
        <name>jmx data from {HOST.NAME} is not reachable for 5 minutes</name>
        <url/>
        <status>0</status>
        <priority>3</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=Memory&quot;;HeapMemoryUsage.committed].last
(0)}={Template JMX G1:jmx[&quot;java.lang:type=Memory&quot;;HeapMemoryUsage.max].last(0)}</expression>
        <name>mem Heap Memory fully committed on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>2</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=Memory&quot;;NonHeapMemoryUsage.committed].
last(0)}={Template JMX G1:jmx[&quot;java.lang:type=Memory&quot;;NonHeapMemoryUsage.max].last(0)}</expression>
        <name>mem Non-Heap Memory fully committed on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>2</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=Code Cache&quot;;Usage.
committed].last(0)}={Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=Code Cache&quot;;Usage.max].last
(0)}</expression>

```

```

        <name>mp Code Cache fully committed on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>2</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=Compressed Class Space&quot;;Usage.committed].last(0)}={Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=Compressed Class Space&quot;;Usage.max].last(0)}</expression>
        <name>mp Compressed Class Space fully committed on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>2</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=G1 Eden Space&quot;;Usage.committed].last(0)}={Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=G1 Eden Space&quot;;Usage.max].last(0)}</expression>
        <name>mp G1 Eden Space fully committed on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>2</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=G1 Old Gen&quot;;Usage.committed].last(0)}={Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=G1 Old Gen&quot;;Usage.max].last(0)}</expression>
        <name>mp G1 Old Gen fully committed on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>2</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=G1 Survivor Space&quot;;Usage.committed].last(0)}={Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=G1 Survivor Space&quot;;Usage.max].last(0)}</expression>
        <name>mp G1 Survivor Space fully committed on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>2</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=Metaspace&quot;;Usage.committed].last(0)}={Template JMX G1:jmx[&quot;java.lang:type=MemoryPool,name=Metaspace&quot;;Usage.max].last(0)}</expression>
        <name>mp Metaspace fully committed on {HOST.NAME}</name>
        <url/>
        <status>0</status>
        <priority>2</priority>
        <description/>
        <type>0</type>
        <dependencies/>
    </trigger>
    <trigger>
        <expression>{Template JMX G1:jmx[&quot;java.lang:type=Compilation&quot;;Name].str(Client)}=1</expression>

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