SA2 T3
GTS Monitoring in Zabbix
(Resources and Projects)

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1. **GTS Operational control**: availability (ping), CPU Load %, HDD space Used, SSH Failed, JAVA CPU/RAM;

2. **GTS Statistic**: total resources in use (VMs, Links), total resources remain (ex: VPN IP), Zombie VMs/LINKs;

3. **GTS System State Tests**: (under construction);

4. **GTS Users Projects States** (for each Project separately): CPU Load %, …?..., need Users feedback what they want to monitor in GTS

**Triggers**: created, need to allocate messages to mail-lists
Operational Monitoring Today (GTS Production)

Units (32 Total):
• Servers (CSFx);
• VMs (CSFx-x);
• Compute nodes (SRVx).

For ALL Units:
• Units availability;
• CPU Load (%);
• Used HDD space;
• SSH Failed.

VM TaaSCore:
• JAVA Processes CPU Load;
• JAVA Processes RAM Load.
5. GTS Operational: JAVA CPU/RAM
In Zabbix we have next Screens (a sets of graphs) for Operational Monitoring:

1. GTS Operational: All Units Availability
2. GTS Operational: All Units CPU Load %
3. GTS Operational: All Units HDD Filled
4. GTS Operational: All Units SSH Failed
5. GTS Operational: JAVA CPU/RAM

Screens with Graphs grouped for each host (experimental):
GTS Operational: AMS ALL
GTS Operational: PRG ALL
GTS Statistic Screens

2. GTS Statistic:
   • GTS Statistic of VMs, Projects, IPs and Active LINKs
2. GTS Statistic:
   - GTS Statistic of Zombie VMs and Links
3. GTS System State Tests (To test periodically that all GTS components are working well: reserving, activating and releasing of resources, etc.)

- UNDER CONSTRUCTION
GTS User Projects State

4. GTS Users Projects States (for each Project separately):
1. CEOVDS Project.
- Public Key was added to VMs, so we can configure HDD storage and RAM control;
- Block for monitoring of availability of VMs was added. Users themselves can start/stop monitoring (VMs ping with e-mail messaging if any problems are);

2. DREAMER Project.
- Made scripts to get for a group of VMs (at different XEN servers) 1 sec CPU Load statistic;
- Made scripts to get in Zabbix graph with 1 min AVERAGE CPU Load statistic;

For several VMs was manually increased RAM and HDD size
Triggers in GTS Production are.

We have user groups:

1. T1-T2-T3 monitoring mail list - gts-monitoring@lists.geant.org
2. SA2 T1 TL and task members: gn4-1-sa2-t1@lists.geant.org
3. SA2 T2 TL and task members: gn4-1-sa2-t2@lists.geant.org
4. SA2 T3 TL and task members: gn4-1-sa2-t3@lists.geant.org
5. GÉANT OTRS Ticketing System: support@oc.geant.net
6. TaaS Service Desk: support.taas@geant.net
7. RENAM Team: imiadmin@math.md
Questions ?

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