



TRƯỜNG ĐẠI HỌC CÔNG NGHỆ THÔNG TIN - ĐHQG-HCM
KHOA MẠNG MÁY TÍNH VÀ TRUYỀN THÔNG

NETWORK AND SYSTEM MANAGEMENT TASK

QUẢN TRỊ MẠNG VÀ HỆ THỐNG
Networks and Systems Administration

MSc. Trần Thị Dung



CONTENT

- Fault management
- Configuration management
- Accounting management
- Performance management
- Security management

Fault Management

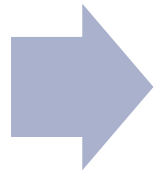
The screenshot displays the Zabbix web interface. The top navigation bar includes links for Monitoring, Inventory, Reports, Configuration, and Administration. Below this is a secondary navigation bar with links for Dashboard, Overview, Web, Latest data, Triggers, Events, Graphs, Screens, Maps, Discovery, and IT services. The main content area is titled 'Dashboard' and contains several widgets:

- Favourite maps:** A list of maps, including 'Local network' and 'Maps'.
- Favourite graphs:** A list of graphs, including 'New host CPU load' and 'Graphs'.
- Favourite screens:** A list of screens, including 'Zabbix server' and 'Screens'.
- Last 20 issues:** A table showing the most recent issues. The table has columns for Host, Issue, Last change, Age, Info, Ack, and Actions. The issues listed are:
 - New host:** CPU load too high on New host for two minutes (2016-02-12 08:50:19, 22s, No, 1).
 - New host:** New host has just been restarted (2016-02-12 08:47:59, 2m 42s, No, 1).
 - Zabbix server 1:** Zabbix server 1 has just been restarted (2016-02-12 08:46:31, 4m 10s, No, 1).
 - Zabbix server 1:** Lack of free swap space on Zabbix server 1 (2015-08-11 23:29:28, 5m 48 10h, Yes 4).
- Status of Zabbix:** A table showing the status of various Zabbix components. The table has columns for Parameter, Value, and Details. The status is as follows:
 - Zabbix server is running:** Yes, localhost:10051.
 - Number of hosts (enabled/disabled/templates):** 54, 10 / 1 / 43.
 - Number of items (enabled/disabled/not supported):** 356, 350 / 0 / 6.
 - Number of triggers (enabled/disabled/problemok):** 95, 94 / 1 / 4 / 90.
 - Number of users (online):** 3, 2.
- System status:** A section for system status, currently empty.

Fault Management



Detect, isolate,
diagnose, and
correct problems



Report status to
end users and
managers



Track trends
related to
problems

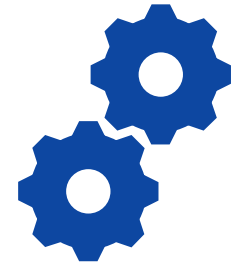
Configuration Management



Keep track of network devices and their configurations



Maintain an inventory of network assets



Log versions of operating systems and applications



Keep track of network
usage by departments or
individuals



Find abusers who use more
resources than they should

Performance Management



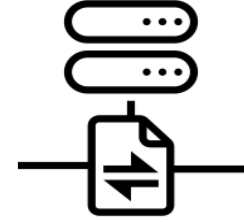
Monitor
performance



Test
reachability

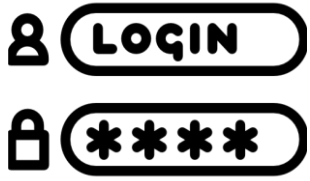


Measure
response
times

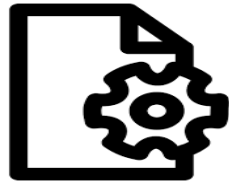


Measure traffic
flow and
volume

Security Management



Maintain and
distribute
usernames and
passwords



Analyze
configurations
for compliance
with security
policies and
procedures



Generate,
distribute, and
store encryption
keys



Collect, store,
and examine
security audit
logs