= 介紹 =

== 參考 ==

ref :

中文，各個元件介紹詳細，但沒有完整範例： <https://songjiayang.gitbooks.io/prometheus/content/introduction/what.html>

英文，digitalocean tutorial 的完整詳細教材，promethues + node\_exportor , ：

* ubuntu  <https://www.digitalocean.com/community/tutorials/how-to-install-prometheus-on-ubuntu-16-04>
* centos <https://www.digitalocean.com/community/tutorials/how-to-use-prometheus-to-monitor-your-centos-7-server>

[[sop] node exporter](https://www.evernote.com/shard/s102/nl/11264267/2b391bd3-1682-4a4d-ad97-fe8aea98459e)

<http://140.110.141.135:9090/graph>   |   prometheus db

http://165.124.3.99:3000/login   |  waue / manager1

<http://tctst03.nchc.org.tw:5000/login>    |  waue / Manager1

== 架構 ==

= 安裝設定 =

== 安裝 ==

$ cd /opt

$ wget <https://github.com/prometheus/prometheus/releases/download/v2.4.2/prometheus-2.4.2.linux-amd64.tar.gz>

$ tar -zxvf prometheus-2.4.2.linux-amd64.tar.gz

$ mv prometheus-2.4.2.linux-amd64/ prometheus

$ cd /opt/prometheus/

$ ./prometheus --version

$ mkdir /etc/

$ mkdir /etc/prometheus/

$ ln -sf /opt/prometheus/data/ /var/lib/prometheus

$ ln -sf /opt/prometheus/prometheus /usr/local/bin/

$ ln -sf /opt/prometheus/promtool /usr/local/bin/

$ ln -sf /opt/prometheus/consoles /etc/prometheus/

$ ln -sf /opt/prometheus/console\_libraries/ /etc/prometheus/

$ sudo useradd --no-create-home --shell /bin/false prometheus

$ sudo useradd --no-create-home --shell /bin/false node\_exporter

$ chown -R prometheus:prometheus /opt/prometheus/

== 設定promethues ==

$ vim /etc/prometheus/prometheus.yml

$ sudo chown prometheus:prometheus /etc/prometheus/prometheus.yml

|  |
| --- |
| global:    scrape\_interval: 15s  scrape\_configs:    - job\_name: 'prometheus'      scrape\_interval: 5s      static\_configs:        - targets: ['140.110.141.135:9090']    - job\_name: 'node\_exporter\_dell03'      scrape\_interval: 5s      static\_configs:        - targets: ['dell03:18080']    - job\_name: 'node\_exporter\_dell04'      scrape\_interval: 5s      static\_configs:        - targets: ['dell04:18080']    - job\_name: 'node\_exporter\_dell05'      scrape\_interval: 5s      static\_configs:        - targets: ['dell05:18080']    - job\_name: 'node\_exporter\_dell06'      scrape\_interval: 5s      static\_configs:        - targets: ['dell06:18080']    - job\_name: 'node\_exporter\_tyan01'      scrape\_interval: 5s      static\_configs:        - targets: ['tyan01:18080']    - job\_name: 'node\_exporter\_tyan02'      scrape\_interval: 5s      static\_configs:        - targets: ['tyan02:18080']    - job\_name: 'node\_exporter\_tcgw01'      scrape\_interval: 5s      static\_configs:        - targets: ['tcgw01:18080'] |

vim /etc/systemd/system/prometheus.service

|  |
| --- |
| [Unit]  Description=Prometheus  Wants=network-online.target  After=network-online.target  [Service]  User=prometheus  Group=prometheus  Type=simple  ExecStart=/usr/local/bin/prometheus \      --config.file=/etc/prometheus/prometheus.yml \      --storage.tsdb.path=/var/lib/prometheus/ \      --web.console.templates=/etc/prometheus/consoles \      --web.console.libraries=/etc/prometheus/console\_libraries \      --web.enable-admin-api  [Install]  WantedBy=multi-user.target |

## test

$ sudo -u prometheus /usr/local/bin/prometheus     --config.file /etc/prometheus/prometheus.yml     --storage.tsdb.path /var/lib/prometheus/     --web.console.templates=/etc/prometheus/consoles     --web.console.libraries=/etc/prometheus/console\_libraries

## start

$ sudo systemctl daemon-reload

$ sudo systemctl start prometheus

$ systemctl status prometheus

$ sudo systemctl enable prometheus

== 佈署 node\_exporter  ==

## root@tyan01:~/e17\_admin

$ vim /etc/systemd/system/node\_exporter.service

|  |
| --- |
| [Unit]  Description=Node Exporter  Wants=network-online.target  After=network-online.target  [Service]  User=node\_exporter  Group=node\_exporter  Type=simple  ExecStart=/usr/local/bin/node\_exporter --web.listen-address=:18080  [Install]  WantedBy=multi-user.target |

./hascp /usr/local/bin/node\_exporter /usr/local/bin/node\_exporter

./hascp /etc/systemd/system/node\_exporter.service /etc/systemd/system/

./hacmd "useradd --no-create-home --shell /bin/false node\_exporter"

./hacmd "chown node\_exporter:node\_exporter /usr/local/bin/node\_exporter"

./hacmd "systemctl daemon-reload"

./hacmd "systemctl restart node\_exporter"

./hacmd "systemctl status node\_exporter"

./hascp /usr/local/bin/node\_exporter /usr/local/bin/node\_exporter

./hascp /etc/systemd/system/node\_exporter.service /etc/systemd/system/

./hacmd "useradd --no-create-home --shell /bin/false node\_exporter"

./hacmd "chown node\_exporter:node\_exporter /usr/local/bin/node\_exporter"

./hacmd "systemctl daemon-reload"

./hacmd "systemctl restart node\_exporter"

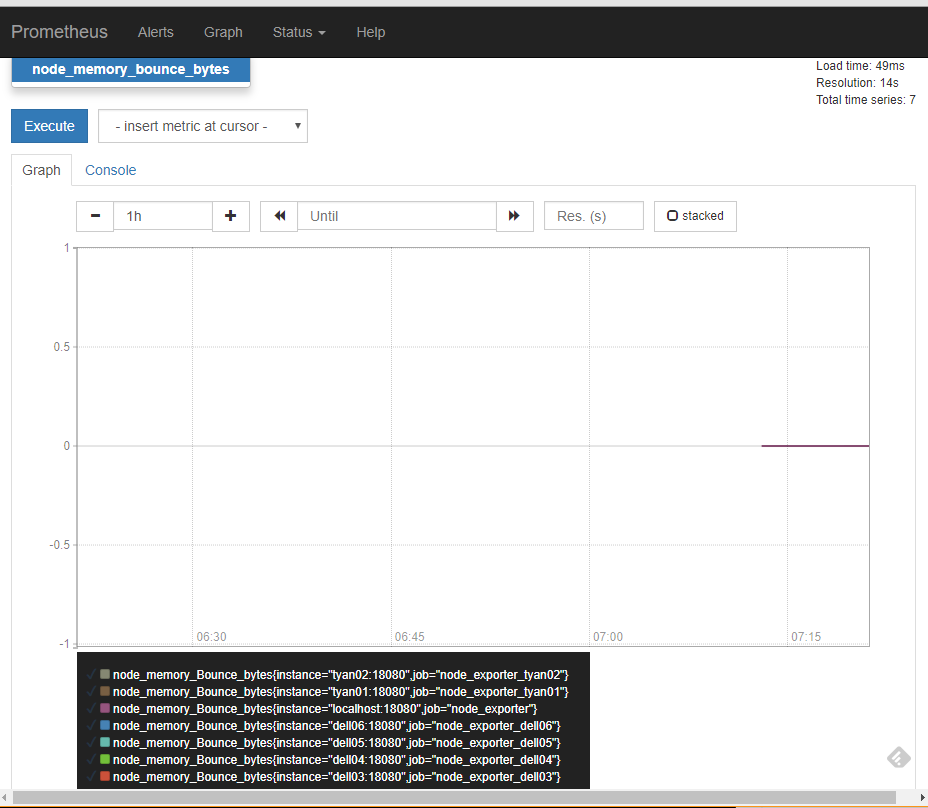
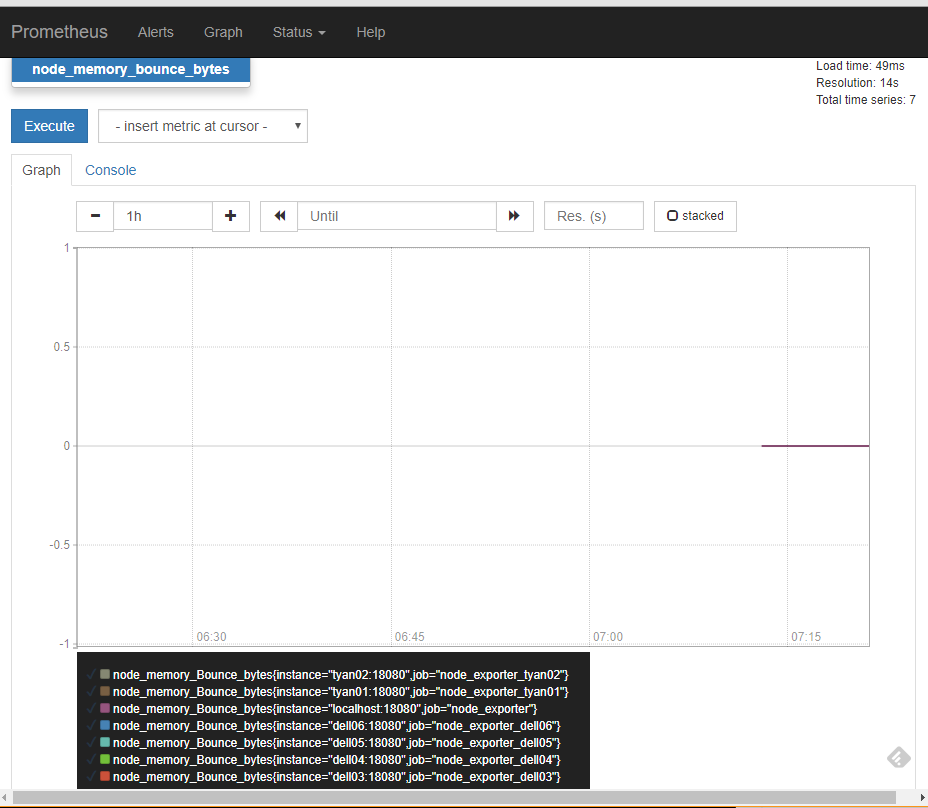
./hacmd "systemctl status node\_exporter"

== 佈署 nvidia\_node\_exporter  ==

類似..省略

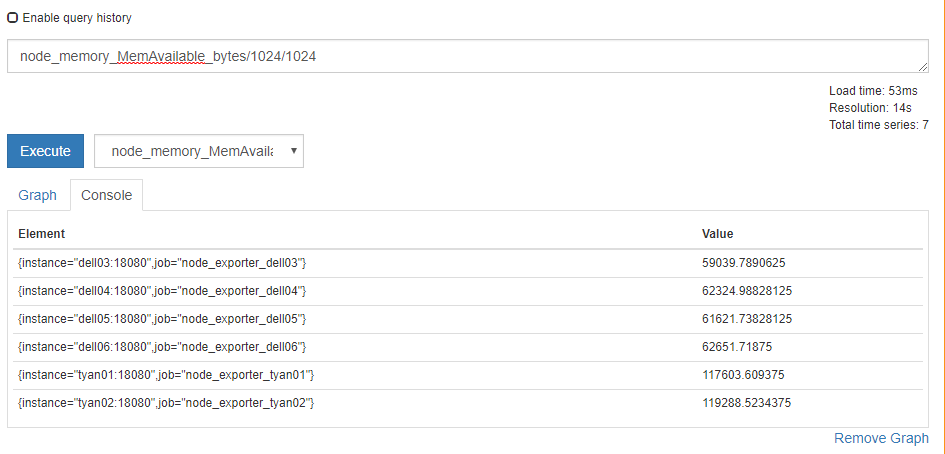
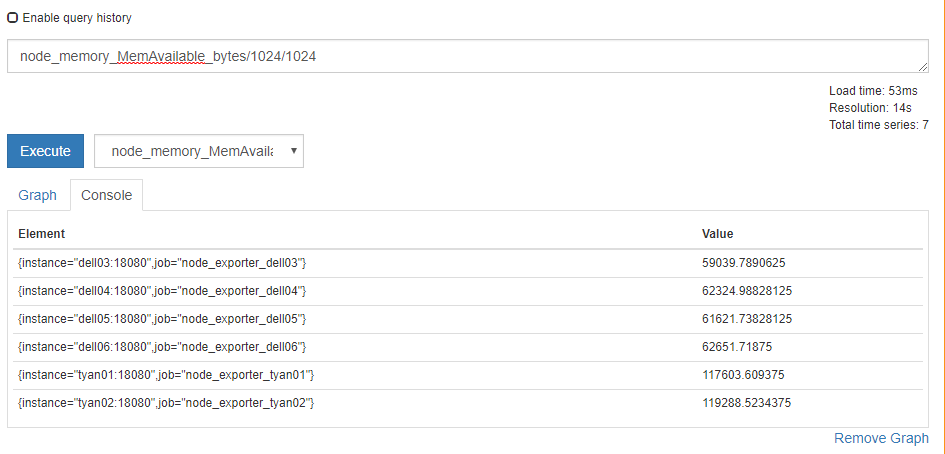
== 檢查 ==

<http://140.110.141.135:9090/graph?g0.range_input=1h&g0.expr=node_memory_Bounce_bytes&g0.tab=0>



= 使用 =

<http://140.110.141.135:9090/graph?g0.range_input=1h&g0.expr=node_memory_MemAvailable_bytes%2F1024%2F1024&g0.tab=1>



gpu

nvidia\_gpu\_duty\_cycle

