**From:** Rob Ide [mailto:ride@appdynamics.com]   
**Sent:** Monday, August 25, 2014 9:58 AM  
**To:** Cotton, Ben  
**Cc:** Dildy, Justin P; Gelfer, Lev  
**Subject:** Fwd: AppDynamics Controller Capacity Monitoring

Hello Ben,

Here are some capacity monitoring guidelines that we used with the CSI team.  Let me know where you stand on production hardware and we can start standing up that environment.

Guidelines for Managing Capacity:

- The capacity of a controller is measured in terms of Metrics/Minute. The # of metrics/agent is more significant.

- Controller(s) are memory bound, scalability is achieved by adding more memory.

- Controllers require fast, low latency storage.

- Required storage is calculate as 4MB/Registered Metric for each 1 year.

- The health and capacity of controller is monitored by examining the metrics/Minute,  registered metrics,  and memory utilization.

Here is the manual procedure for gathering this information.

- Metrics/Minute

./controller.sh login-db

select from\_unixtime(ts\_min\*60), count(distinct node\_id), count(\*) from metricdata\_min where ts\_min > (select max(ts\_min) - 10 from metricdata\_min) group by 1 order by 1;

- Memory,  JVM Heap and Garbage Collection

The controller collect data using and embedded agent and hidden application, this can be accessed by using this url

<http://host:8090/controller/?enableAccounts=true>

account = system

user = root

password = ?

Examine the memory utilization for Node1

- Storage Requirements

     /controller.sh login-db

     select count(\*) from metric;

     4MB/Registered Metric for each 1 year.

-  Storage Capacity

    Perform iostat on the primary LVM that hold appdynamics database

-  Agent Count

    select count(\*) from agent;

    This number is useful for capacity planning but does not represent license utilization, this counts all agents, java, machine, and .Net CLR.

With the exception of the "Memory JVM Heap and Garbage Collection" we can automate the collection of this information by installing a Machine Agent on the AppDynamics Controller Instances.

When you have sometime let collect this data from the Pilot Controller so that we get a feel for the size of the pilot deployment.

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Regards,

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