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« VCAP-DCA Objective 3.4 – Perform Capacity Planning in a vSphere Environment

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VCAP-DCA Objective 3.4 – Perform Capacity Planning in a vSphere Environment

Knowledge

- Identify hot keys and fields used with resxtp/esxtp
- Identify fields used with vscsiStats

Skills and Abilities

- Configure esxtp/resxtp custom profiles
- Determine use cases for and apply esxtp/resxtp Interactive, Batch and Replay modes
- Use vscsiStats to gather storage performance data
- Use esxtp/resxtp to collect performance data
- Given esxtp/resxtp output, identify relative performance data for capacity planning purposes

Tools

- vSphere Resource Management Guide
- vSphere Command-Line Interface Installation and Scripting Guide
- Product Documentation
- vSphere Client
- vSphere CLI
- esxtp/resxtp
- vscsiStats

Notes

Reading through the following three links will give you a great insight into using esxtp and vscsiStats.

- <http://communities.vmware.com/docs/DOC-11812.pdf>
- <http://www.yellow-bricks.com/esxtp/>
- <http://www.yellow-bricks.com/2009/12/17/vscsiStats/>

Identify hot keys and fields used with resxtp/esxtp

See appendix section for [esxtp](#)

Identify fields used with vscsiStats

See appendix [section for vscsiStats](#).

Configure esxtp/resxtp custom profiles

1. Load esxtp
2. Use hot keys to configure how you would like.
 - 'f' will add and remove fields
 - 'o' will change the order



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· other hot keys will give you settings specific to that view.

3. 'W' will save the settings to a new config file

4. Next time you load esxstop use the '-c' option to specify a configuration file

Determine use cases for and apply esxstop/resxstop Interactive, Batch and Replay modes

Batch

Batch mode allows collection that will be captured to a file.

Esxstop -b > file.csv

Replay

Esxstop will replay resource utilization stats that were collected using the vm-support command

The capture from the vm-support command would have been generated by the following command

Vm-support -s -d duration -I interval

You would then unzip/untar this for esxstop to use it.

Esxstop -R <path to dir>

Use vscsiStats to gather storage performance data

<http://communities.vmware.com/docs/DOC-10095>

<http://www.gabesvirtualworld.com/converting-vscsistats-data-into-excel-charts/>

Given esxstop/resxstop output, identify relative performance data for capacity planning purposes

Again check out the links mentioned above in this section. They are a must read and will be a great guide in helping to identify performance related issues.

- [Objective 9.3 – Configure vCenter Server Linked Mode](#)
- [Objective 9.2 – Plan and Execute Scripted Installations](#)
- [Objective 8.2 – Administer vCenter Orchestrator](#)
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- [VCAP-DCA Objective 3.3 – Implement and Maintain Complex DRS Solutions](#)
- [VCAP-DCA Objective 3.2 – Optimize Virtual Machine Resources](#)
- [VCAP-DCA Objective 3.1 – Tune and Optimize vSphere Performance](#)

 [VCAP-DCA](#), [VMware](#), [vsphere](#)



Configuration
Maximums for
VMware

vSphere is my favorite VMware document. It answers many of the "How many", "How much" type questions about VI capabilities. This is one of the documents that will most often be updated as new releases of VMware VI are released so it's a good one to keep tabs on.

<http://www.vmware.com/pdf/vsphere4/r41>

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