



# A S e r i e s F a i l u r e s

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## VCAP-DCA 3.5 Getting the Environment

### Knowledge

- Understand the DRS slot-size algorithm and its impact on migration recommendations
- Identify tools needed for monitoring capacity planning
- Identify performance metrics related to resource contention and saturation

### Skills and Abilities

- Predict when additional ESX/ESXi Host, network or storage resources will be required by observing an existing environment
- Determine when to expand or contract provisioned Virtual Machine resources based upon observed Virtual Machine utilization
- Interpret performance metrics from vCenter to properly size the environment

### Tools

- vSphere Resource Management Guide
- Overview Performance Charts Help
- Product Documentation
- vSphere Client

### Notes

#### **Predict when additional ESX/ESXi Host, network or storage resources will be required by observing an existing environment**

Properly planning for capacity can help avoid this, but sometimes you just outgrow your environment. vCenter now has many more charts and resources that will give you a visual representation of performance and other metrics. Using these metrics you can see where you are at today and the trends on utilization, targeting the need to increase storage, network, or host requirements for your environment.

#### **Determine when to expand or contract provisioned Virtual Machine resources based upon observed Virtual Machine utilization**

After you have provisioned a virtual machine you may find it is not performing as well. The first question to ask is if this virtual machine has lesser resources then its physical counterpart did before. If so you will want to increase the CPU, memory, or storage requirements to get closer towards the original configuration.

Often times though the physical host will be way more powerful then the virtual machine needs to be. Giving a virtual machine more than enough resources will ensure it runs smoothly, but it will also waste expensive resources and prevent or hinder those resources from being utilized by other virtual machines. One big an mid-sized virtual machine with any customization to the slot size settings can heavily affect the slot size of your environment.

Refer to my other sections for VCAP-DCA troubleshooting to go through ESXTOP and other performance monitoring metrics.

#### **Interpret performance metrics from vCenter to properly size the environment**

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Virtualization

Quote of the Day

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Depending on your experience level it may not be completely straight forward what you are looking for here. Checkout this document from VMware to gain a better understanding of performance charts in vCenter and what you are looking for.

## Other Links

[http://communities.vmware.com/servlet/JiveServlet/downloadBody/12619-102-1-13397/vSphere\\_perf\\_charts.pdf&rct=j&q=vsphere\\_perf\\_charts&ei=4QSATLuUI4S0IQfZ\\_OWYDw&usg=AFQjCNHGq8bdy0y](http://communities.vmware.com/servlet/JiveServlet/downloadBody/12619-102-1-13397/vSphere_perf_charts.pdf&rct=j&q=vsphere_perf_charts&ei=4QSATLuUI4S0IQfZ_OWYDw&usg=AFQjCNHGq8bdy0y)

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Configuration  
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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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