Knowledge Base

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Knowledge Base

Fault Tolerant virtual machines rapidly switch between ESX hosts when being powered on

Symptoms

- Virtual machines that have Fault Tolerance enabled rapidly switch between ESX hosts when they are being powered on.
- The vmware.log files contain the errors:

Resolution

Fault Tolerant virtual machines have a change tracking resource (CTK) listed in the virtual machine configuration (.vmx) file. This resource gets added to a virtual machine configuration file if:

- You try to back up the virtual machine configured with Fault Tolerance using the snapshot feature.
- The virtual machine is backed up using the snapshot feature prior to being configured for Fault Tolerance.

Virtual machines cannot be backed up using snapshots. For more information, see Fault Tolerance

Interoperability in the vSphere Availability Guide (http://www.vmware.com/pdf/vsphere4/r40/vsp 40 availability.pdf).

To resolve this issue, you must remove the CTK variables from the virtual machine configuration (.vmx) file.

To remove CTK variables from the $\ensuremath{.\,\ensuremath{vmx}}$ file:

- 1. Log into to the ESX service console.
- 2. Power off the virtual machine.
- 3. Unregister the virtual machine from the vCenter Server Inventory by right-clicking the virtual machine and clicking **Remove from Inventory**.
- 4. Open the .vmx file in a text editor.
- 5. Locate variables similar to the following and delete the entire line:

scsi0:0.ctkEnabled = "true"

```
ctkEnabled = "true"
```

Notes:

- If there is more than one virtual disk, there are additional scsi#:#.ctkEnabled entries. These must be removed as well.
- You may also find ide#.#.ctkEnabled entries. These must be removed as well.
- 7. To guarantee that change block tracking cannot be enabled, add the following line to the configuration file:

ctkDisallowed="true"

- $8. \ \mbox{Open the datastore browser and change to the directory where the .vmx file is located}$
- 9. Right-click the .vmx file and click Add to Inventory.
- $10. \,$ Save and close the file.
- 11. Reboot the virtual machine to apply the changes.

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Permalink to: <u>Fault Tolerant virtual machines rapidly switch between ESX hosts</u> when being powered on (http://kb.vmware.com/kb/1013400)

• KB Article: **1013400**

- Updated: Apr 7, 2010
- **Products:** VMware ESX VMware ESXi VMware vCenter Server
- **Product Versions:** VMware ESX 4.0.x VMware ESXi 4.0.x Embedded VMware ESXi 4.0.x Installable VMware vCenter Server 4.0.x

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