

Disable_LRO

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VMware vSphere ESXi 4.1 introduced a new setting called "Large Receive Offload (LRO)". When enabled on VMs running ESXi 4.1 or later, you may experience slow TCP performance on certain operating systems (depending on which Collaboration application and version). This setting usually needs to be disabled on an ESXi host running Collaboration app VMs (either new install of ESXi 4.1+, or upgrade from ESXi 4.0 to 4.1+ followed by upgrading VMwareTools in app VMs to 4.1+).

Collaboration Application & Version	VMware vSphere ESXi Version	Disable LRO required?
CUCM 8.0(2) to 8.5	4.1	Yes
CUCM 8.6 or higher	4.1	No
CUCCX / IPIVR 8.0 to 8.5	4.1	Yes
CUCCX / IPIVR 9.0 or higher	4.1	No
	Disable LRO if on ESX 4.1 and app version < 8.6.	
All others	Otherwise disable LRO is optional. If you experience FTP/TCP latency, then disable LRO.	

To disable LRO, follow this procedure:

1. Log into the ESXi host or its vCenter with vSphere Client.
2. Select the host > **Configuration** > **Advanced Settings**.
3. Select **Net** and scroll down slightly more than half way.
4. Set the following parameters from 1 to 0:
 - ◆ Net.VmxnetSwLROSL
 - ◆ Net.Vmxnet3SwLRO
 - ◆ Net.Vmxnet3HwLRO
 - ◆ Net.Vmxnet2SwLRO
 - ◆ Net.Vmxnet2HwLRO
5. Reboot the ESXi host to activate these changes.

Your guest VMs should now have normal TCP networking performance.

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