
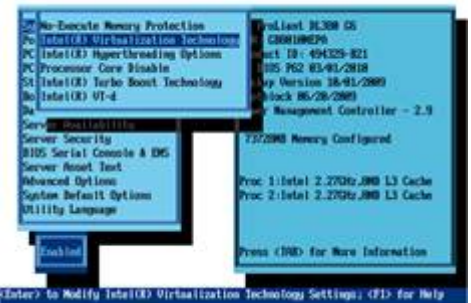






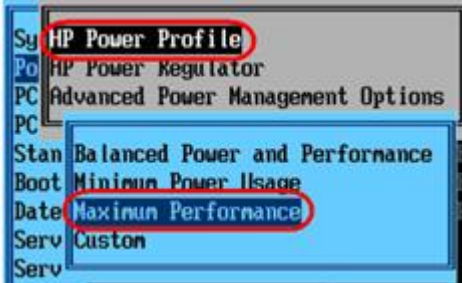

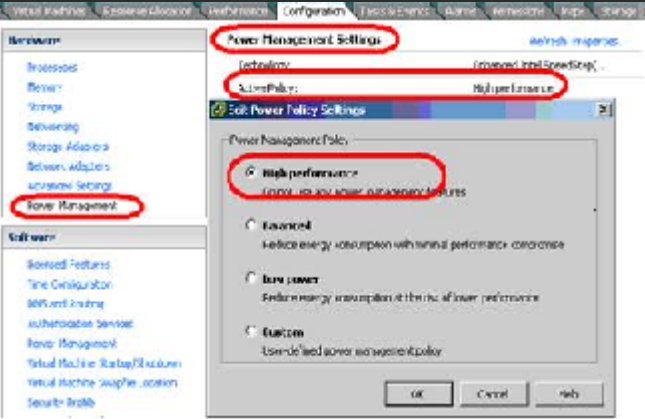
Best Practices – BIOS Parameters in HP G7 Servers for VMware vSphere 5.0




In the recent past I have seen many requests come from different area regarding this topic. Well needless to say that, this is most important.

We always strive to find this information handy. So, I thought I would write an article on this to make it simple and handy for any one who need it.

Processor Options No Execute Memory Protection = Enabled	<p>Default setting for ProLiant G7: enabled</p>  <p>The screenshot shows the HP BIOS Setup Utility, Version 3.80. The 'No-Execute Memory Protection' option is highlighted and set to 'Enabled'. Other visible options include Intel(R) Virtualization Technology, Intel(R) Hyperthreading Options, Processor Core Disable, Intel(R) Turbo Boost Technology, and Intel(R) VT-d. The right pane shows system information for a ProLiant BL300 G5 server.</p>
Intel VT = Enabled AMD-V = Enabled	<p>Default setting for ProLiant G7: enabled See: http://kb.vmware.com/kb/1011712</p>  <p>This screenshot is identical to the one above, showing the 'No-Execute Memory Protection' settings. The 'Intel(R) Virtualization Technology' option is also visible and set to 'Enabled'.</p>
Intel Hyperthreading = Enabled	<p>Default setting for ProLiant G7: enabled See: http://kb.vmware.com/kb/1013428</p>

	
Processor Core Disable	<p>Default setting for ProLiant G7: All Cores Enabled</p> 
Intel Turbo Boost	<p>Default setting for ProLiant G7: enabled</p> 
Intel VT-d	<p>Default setting for ProLiant G7: enabled</p> 

Power Management	
Power Profile	<p>Set the Power Profile to "Maximum Performance". This setting can be viewed or modified later on using the vSphere Client / vCenter See: http://kb.vmware.com/kb/1018206</p> 
Power Regulator	<p>Set "Power Regulator" to "OS Controlled". With this setting, the Power Management can be actively influenced using vSphere Client.</p> 
Configuration in vSphere Client / vCenter when ESXi is deployed:	
Server Availability	
ASR = Disabled	<p>Disable ASR for ESX/ESXi Refer to: http://kb.vmware.com/kb/1010842</p>

	<div><p>Default setting for ProLiant G7: enabled</p></div>
<div><p>Automatic Power-On = decide individually</p><p>Power-On Delay = decide individually</p></div>	<div><p>Depending on the scenario enable or disable this setting. This setting can also be set in the iLO Web interface.</p></div>
<div><p>Advanced System ROM Options</p><p>Power-On Logo = Disabled</p></div>	<div><p>If this setting is disabled the monitoring of the bootup process is easier.</p><p>Default setting for ProLiant G7: enabled</p></div>