Configure share and resources

Source: VMware DOCS

Asst. Prof. Ashwini Mathur

Overview

Shares specify the **relative importance of a virtual machine** (or resource pool).

If a virtual machine has twice as many shares of a resource as another virtual machine, it is entitled to consume twice as much of that resource when these two virtual machines are competing for resources.

Shares are typically specified as **High, Normal, or Low**

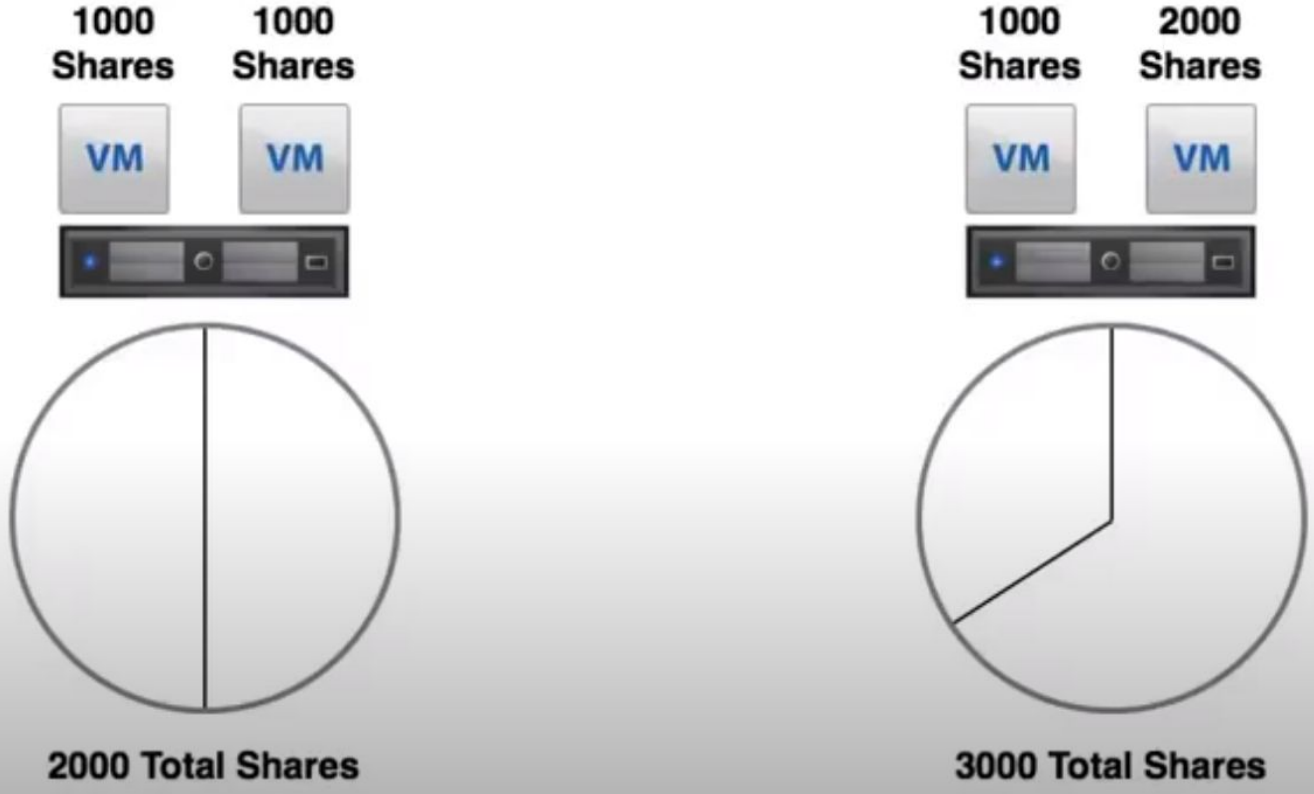
Resource Management

Shares: relative importance of a virtual machine (VM)

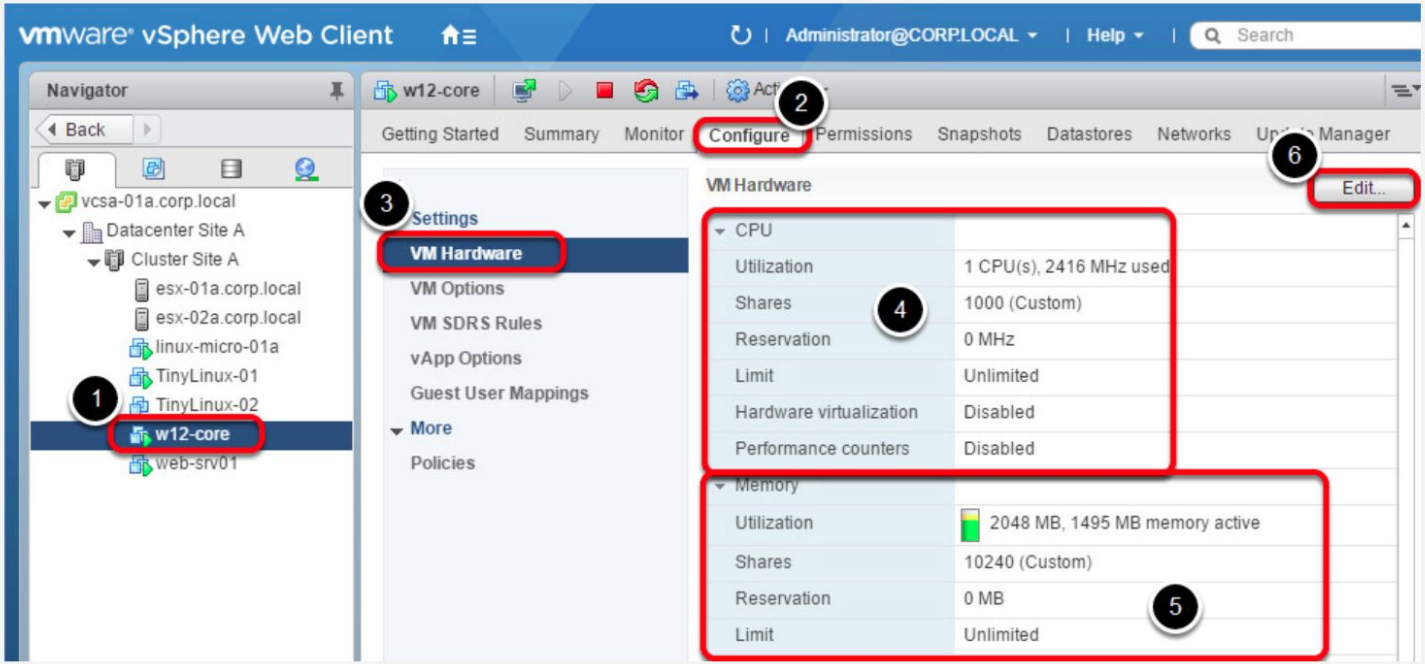
Reservation: guaranteed minimum allocation for a VM

Limit: upper bound of resource that can be allocated to a VM

Resource Management: Shares

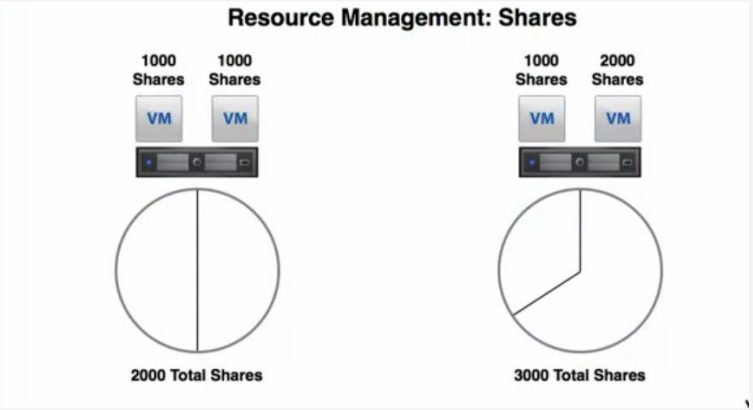


Review CPU settings



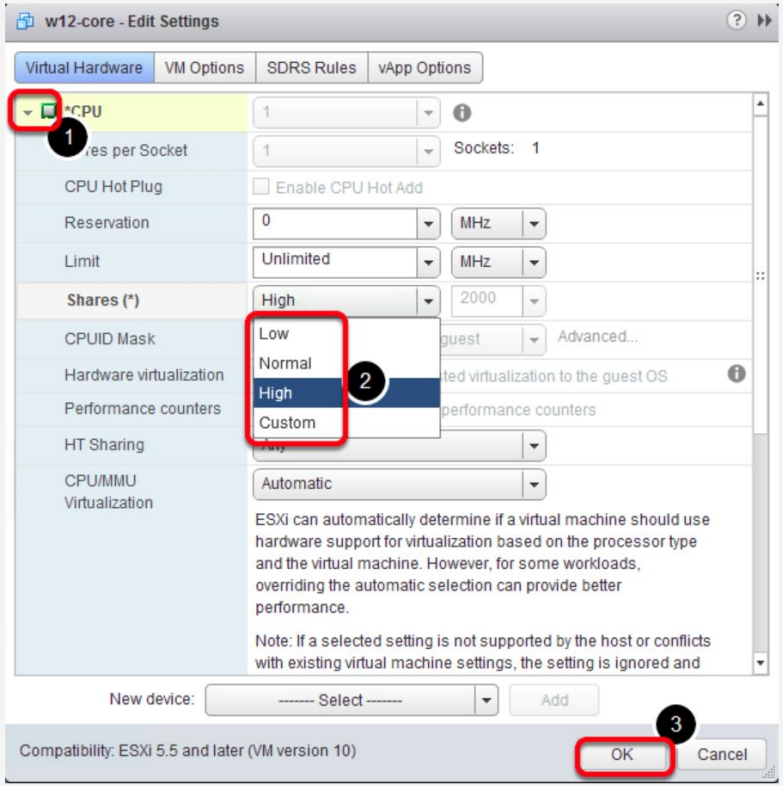
1. Click the '**w12-core**' virtual machine.
2. Click the '**Configure**' tab
3. Click the '**VM Hardware**' setting
4. Expand the CPU section. You can see the current settings for Shares, Reservation and Limit.
5. Expand the Memory section. This section contains the Shares, Reservations and Limit for the memory section.
6. Click '**Edit**' to modify the shares of the VM

Understanding Shares



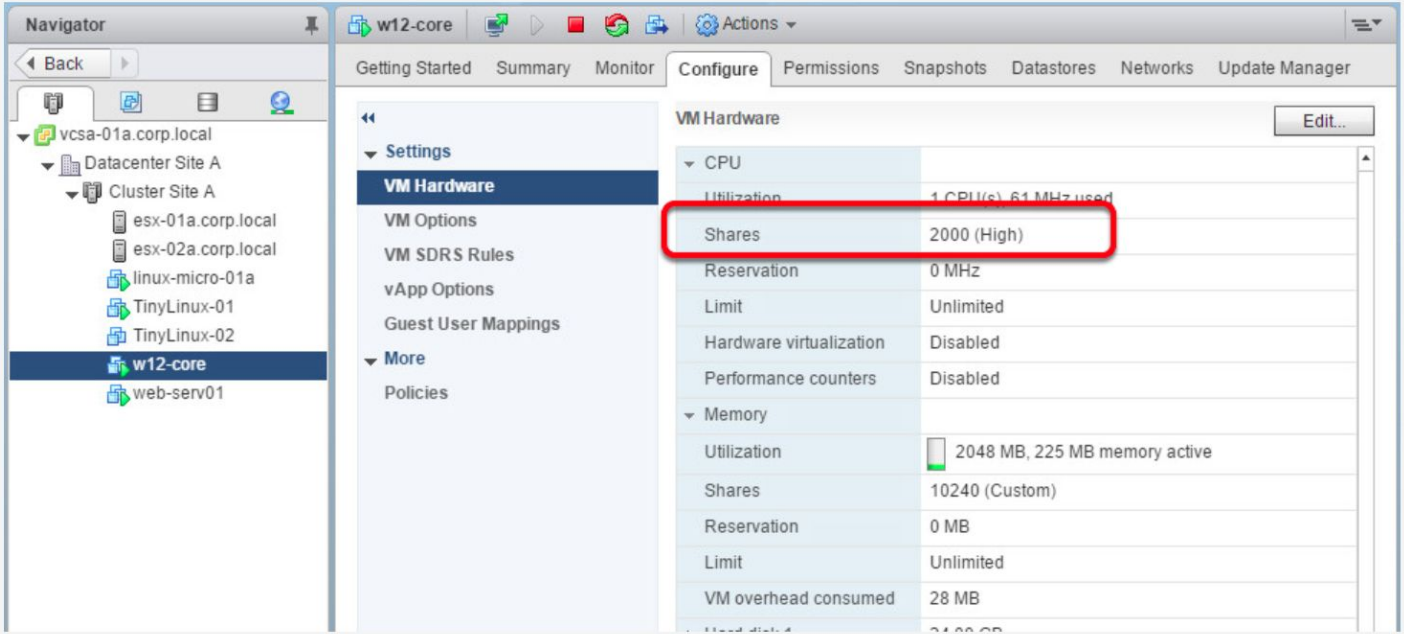
The above example shows 2 VM's, one a development VM and the other a Production VM. On the left hand side of the diagram, you can see the CPU shares are equal. We want to make sure the Production VM gets the majority of the CPU resources when there is contention for those resources in the environment. Changing the shares for the production VM from 1000 shares to 2000 shares accomplishes this goal. The new settings are shown on the right side of the diagram.

Changing Resource Allocation of CPU shares.



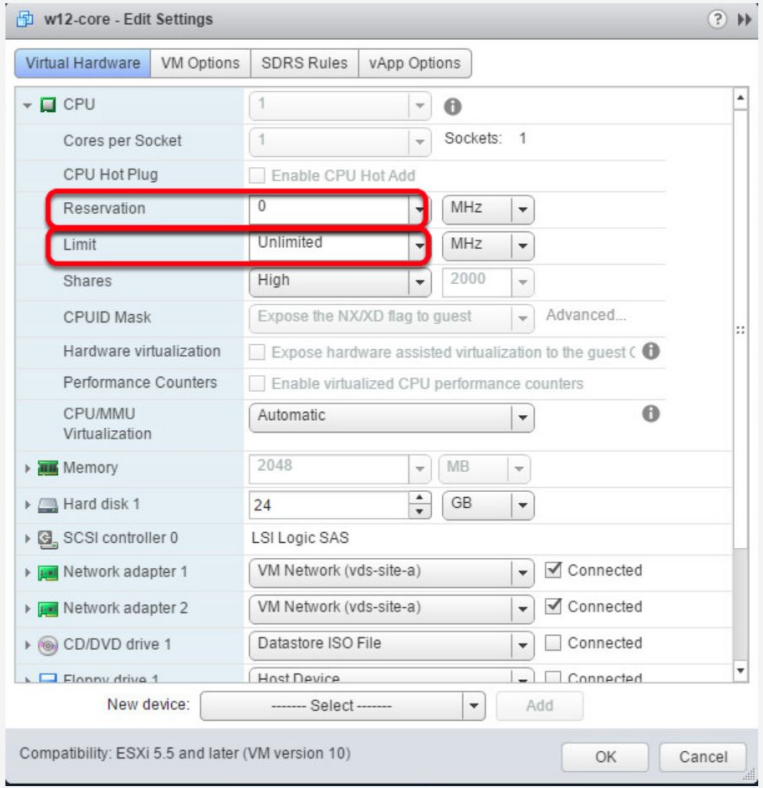
1. Expand the CPU section of the settings.
2. From the Shares drop down box, Click "**High**" to change the setting of the CPU shares.
3. Click "**OK**"

Review Settings



The new Shares settings are shown in the Settings tab.

Settings for Limits and Reservations.



Limits and Reservations are set with the same procedure. When you click on the "edit" settings for a VM, you will find the ability to set the Limit and Reservations. Limit restricts a VM from using more than the limit setting. Reservations guarantee a minimum amount of a resource be available for the virtual machine. Try out some settings for Limits and Reservations. One note is that if you try to reserve more of a resource such as memory or CPU than is available, the VM may not power on.

Lets Review via Demonstration