

- Allocation tracking for CPU and RAM is at the VCD level.



CPU reservations and limits are set at the level of the resource pool level, based on the VMs powered on and in correlation with the guaranteed % of resources.

- CPU limit is set the resource pool level and the value is equivalent to the VDC allocation.

RAM reservations are set at the level of the resource pool and its expandable, and this is related to an aspect of - performance, as this gives flexibility to the hypervisor to allow a VM to get a bit of extra memory so that the VM isn't forced to start paging, in addition no limits are set.

- No reservations or limits are set at the virtual machine level.

Allocation tracking for CPU and RAM is at the VCD level.

Non-Elastic vCPU Speed is not available. - CPU and RAM reservations are set at the level of the resource pool and they're based on the % guaranteed. — CPU and RAM limits are set at the level of the resource pool and they're equivalent to the VDC allocation. - No CPU reservations or limits are set at the virtual machine level. RAM reservations is set at the virtual machine level.

Allocation tracking for RAM is at the VCD level.

Allocation tracking for CPU is at the vSphere level.

VM policies cannot be used, if policies are to be introduced then the OvDC will be converted to FLEX.

VM policies can be used with this model.

As-You-Go Allocation Model
Definition
Use the pay-as-you-go model when you do not have to allocate compute resources in vCenter Server upfront. Reservation, limit, and shares are applied on every workload that tenants deploy in the VDC. With the pay-as-you-go allocation model, every workload in the organization VDC receives the same percentage of the configured compute resources reserved. To VMware Cloud Director, the CPU speed of every vCPU for every workload is the same and you can only define the CPU speed at the organization VDC level. From a performance perspective, because you cannot change reservation settings of individual workloads, every workload receives the same preference. Pay-as-you-go allocation model is optimal for tenants that need workloads with different performance requirements to run within the same organization VDC. Because of the elasticity, the pay-as-you-go model is suitable for generic, short lived workloads that are part of autoscaling applications. With pay-as-you-go, tenants can match spikes in compute resources demand within
an organization VDC.
VDC Capacity Properties
CPU Quota in GHz (this comes as a level of protection against abuse, should you choose to make it unlimite wisely :)).
Memory Quota in GB
Memory Resources Guaranteed in %
Elastic
The placement engine checks where the best suitable cluster for the VM to run on, if you have a multiple clusters within a PvDC then a single OvDC might have multiple a resource pool created in each cluster (VCD automatically does that).
No resources are reserved ahead of time.
Practically, there is no reservation for both CPU and Memory are expandable, however CPU and RAM reservations — are changed/set at the level of the resource pool and they're based on the % guaranteed per VM that is powered on.
CPU and RAM limits are set to unlimited.
Virtual Machine CPU & Memory Reservations are set at the VM level based on the VM allocation and % guaranteed.
Allocation tracking for RAM is at the VCD level.
Allocation tracking for CPU is at the vSphere level.
VM policies cannot be used, if policies are to be introduced then the OvDC will be converted to FLEX.