

CPU SIZING

Sangfor aCloud OS consumes 3 physical cores per node, each component consumes one physical core.

- aSV 1 pCore
- aSAN 1 pCore
- aNET 1 pCore

One physical core recommend to simulate 3 vCores, maximum 6 vCores

A decorative graphic consisting of several parallel white lines of varying lengths and orientations, located in the bottom right corner of the slide.

MEMORY SIZING

Sangfor aCloud OS reserved memory based on per service components

- aSV + Management 7 GB
- aNET 7 GB
- aSAN 7+ GB

* aSAN sizing detail per next slide



MEMORY SIZING

aSAN

RAM consumption: depends on the disk configuration

Service	RAM consumption
Basic service	7GB
Data tier-ing service	For every 100GB of SSD capacity, 0.5GB RAM is consumed
Data service	1GB RAM for 1 hard drive (HDD)

Example

A host in the cluster has 2 SSDs of 960GB and 6 HDDs of 2TB, aSAN module will consume RAM of:

$7\text{GB (basic service)} + 2 * 9.6 * 0.5\text{GB} + 6 * 1\text{GB} = 7 + 9.6 + 6 \text{ GB} = 22.6\text{GB}$

DISK SIZING

Usable capacity = (Raw Capacity / 2) x 0.85

SSD at least 5% of HDD

Update: vm-based storage policy is supported since 6.0.1, that means data copies can be configured on a per VM basis. Therefore, HCI capacity sizing needs to be done based on vms.

VM	Assigned capacity	Replica	Needed raw capacity
VM1	100GB	2	=2*100/0.85=236GB
VM2	200GB	2	=2*200/0.85=471GB
VM3	300GB	3	=3*300/0.85=1059GB
Total	600GB	N/A	=236+471+1059=1766GB

NIC SIZING

For storage connection, it's recommended to configure 10GE for connection and redundant

