

# Suggested Specifications

Here are specifications for OnApp.

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**Need more help?**

With the full version of OnApp Cloud you get free support from our integrations team to spec the exact hardware you'll need for your cloud deployment.

**See also:**

[Server Config Reminder](#) - supported versions of the servers




[Supported Functionality](#)

[Software Requirements](#)

[Recommended Network Configurations](#)

[Types of Cloud Service with OnApp](#)

## Suggested Specifications

		Small Production Cloud	Medium Production Cloud	Enterprise Cloud
<b>OnApp License</b>		Starter Package + OnApp Storage (add on)	Professional package	Enterprise Package
<b>Number of Control Panel (CP) Servers</b>		1	1	3
<b>Separate Database Server /Cluster</b>		No	No	Optional
<b>Dedicated Backup Servers</b>		1	1	2
<b>Number of Compute Resources (XEN/KVM)</b>		3	8	16
<b>Compute Resource Type (Static / Cloudboot)</b>		Cloudboot	Cloudboot	Cloudboot
<b>CP Server</b> 	<b>Processor</b>	2 x 8 Core CPUs eg. Xeon e5-2640 v3	2 x 8 Core CPUs eg. Xeon e5-2640 v3	2 x 8 Core CPUs eg. Xeon e5-2640 v3
	<b>Memory</b>	16GB RAM	32GB RAM	64GB RAM
	<b>Disks</b>	2 x 400GB SSD	4 x 100GB SSD	4 x 100GB SSD
	<b>RAID Configuration</b>	RAID 1	RAID 10	RAID 10
	<b>Network Adapters</b>	Quad port 1Gbp NIC	Dual port 1Gbps + Dual Port 10Gbps eg. Intel I350 + X520	Dual port 1Gbps + 2 x Dual Port 10Gbps eg. Intel I350 + 2 x Intel X520
<b>Backup Server</b> 	<b>Processor</b>	2 x 8 Core CPUs eg. Intel Xeon e5-2620 v3	2 x 8 Core CPUs eg. Intel Xeon e5-2620 v3	2 x 8 Core CPUs eg. Intel Xeon e5-2620 v3
	<b>Memory</b>	32GB RAM	32GB RAM	32GB RAM
	<b>HDDs</b>	12x2TB SAS	12x2TB SAS	12x2TB SAS
	<b>RAID</b>	RAID10	RAID10	RAID10
	<b>Network Interfaces</b>	Dual port 1Gbp Intel NIC + Dual port 10Gbps Intel NIC	Dual port 1Gbp Intel NIC + Dual port 10Gbps Intel NIC	Dual port 1Gbp Intel NIC + Dual port 10Gbps Intel NIC
<b>Compute Resource</b> 	<b>Processor</b>	2 x 8 Core CPUs eg. Xeon e5-2640 v3	2 x 8 Core CPUs eg. Xeon e5-2640 v3	2 x 8 Core CPUs eg. Xeon e5-2640 v3
	<b>Memory</b>	128GB	256GB	256GB
	<b>HDDs</b>	8 x 400GB SSD	8 x 400GB SSD	8 x 400GB SSD
	<b>RAID Controller</b>	PCIe gen3 eg. PERC H730, 1GB cache	PCIe gen3 eg. PERC H730, 1GB cache	PCIe gen3 eg. PERC H730, 1GB cache
	<b>RAID Configuration</b>	JBOD	JBOD	JBOD
	<b>Network Interfaces</b>	Dual port 1Gbps + Dual Port 10Gbps eg. Intel I350 + X520	4 x 10Gbps eg.	4 x 10Gbps

<b>iSCSI SAN</b>	<b>Type</b>	Optional Dual-Controller Hardware SAN	Optional Dual-Controller Hardware SAN	Optional Dual-Controller Hardware SAN
	<b>HDDs</b>	12+ x SSD	12+ x SSD	12+ x SSD
	<b>RAID Configuration</b>	RAID10	RAID10	RAID10
<b>Network Hardware</b>	Switch with: 48 x 1GbE ports, 4 x 10GbE ports. High performance switch with: 48 x 10GbE ports, 4 x 40 GbE ports	2 x High performance switch with: 48 x 10GbE ports, 4 x 40 GbE ports	2 x High performance switch with: 48 x 10GbE ports, 4 x 40 GbE ports	2 x High performance switch with: 48 x 10GbE ports, 4 x 40 GbE ports

## Storage Hardware Requirements

If you are going to use OnApp [Integrated Storage](#), make sure to meet the following requirements:

<b>Integrated Storage Platform (by OnApp)</b>	<b>Local Storage Only</b>	<b>Enterprise SAN</b>
<ul style="list-style-type: none"> <li>• Integrated Storage can group together any number of drives across any compute resource. We strongly recommend a minimum of 2 drives per compute resource to enable redundant data store configurations.</li> <li>• at least 1 dedicated NIC assigned per compute resource for the storage network (SAN)</li> <li>• IGMP snooping must be disabled on storage switch for storage network</li> </ul>	<ul style="list-style-type: none"> <li>• minimum 1 dedicated partition in each compute resource</li> <li>• separate disk from the primary OS drive <i>recommended</i></li> </ul>	<ul style="list-style-type: none"> <li>• centralised Block Storage SAN (iSCSI, ATA over Ethernet or Fibre Channel) accessible to every compute resource</li> <li>• at least 1 dedicated 1Gbit/s NIC assigned per compute resource for the SAN</li> <li>• multiple NICs bonded or 10Gbit/s ethernet <i>recommended</i></li> </ul>