



Technology requirements

FlexPod

NetApp
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Technology requirements

FlexPod Express requires a combination of hardware and software components that depends on the selected hypervisor and network speed. In addition, FlexPod Express lays out the hardware components that are required to add hypervisor nodes to the system in units of two.

Hardware requirements

Regardless of the hypervisor chosen, all FlexPod Express configurations use the same hardware. Therefore, even if business requirements change, you can use a different hypervisor on the same FlexPod Express hardware.

The following table lists the hardware components that are required for this FlexPod Express configuration and to implement this solution. The hardware components that are used in any implementation of the solution can vary based on customer requirements.

Hardware	Quantity
AFF C190 2-node cluster	1
Cisco UCS C220 M5 Server	2
Cisco Nexus 31108 Switch	2
Cisco UCS Virtual Interface Card (VIC) 1457 for Cisco UCS C220 M5 rack server	2

Software requirements

The following table lists the software components that are required to implement the architectures of the FlexPod Express solution.

Software	Version	Details
Cisco Integrated Management Controller (CIMC)	4.0.4	For C220 M5 rack servers
Cisco NX-OS	7.0(3)I7(6)	For Cisco Nexus 31108 switches
NetApp ONTAP	9.6	For NetApp AFF C190 controllers

The following table lists the software that is required for all VMware vSphere implementations on FlexPod Express.

Software	Version
VMware vCenter Server Appliance	6.7U2
VMware vSphere ESXi	6.7U2
NetApp VAAI Plug-In for ESXi	1.1.2
NetApp Virtual Storage Console	9.6

Next: [Design choices](#).

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