Virtual Machine Requirements

Arbor Sightline

RECOMMENDATIONS

- Configure Arbor Sightline for high availability by using vSphere HA or similiar functionality.
- When migrating Arbor Sightline VMs leverage VMware's Vmotion or similiar functionality.
- Enable NTP (Network Time Protocol) on the VM host server
- Dedicate a network interface per Arbor Sightline VM when possible.
- Do not overprovision memory allocation.

Arbor Sightline provides comprehensive network visibility and reporting capabilities to help you detect and understand availability threats, and improve traffic engineering, peering relationships and service performance. Furthermore, Arbor Sightline has the flexibility to be deployed how and where you need it, when you need it.

Benefits of Arbor Sightline Virtual Machine deployments are:

- Cost effectively increases visibility at the network edge
- Flexibility for changing needs
- Scalable deployment as you grow
- Choice of form factor (Virtual Machine and/or appliance)
- Simple licensing
- Rapid deployment within virtualized infrastructure
- Powerful high availability and migration functionality leveraging VM tools

Arbor Sightline Resource Requirements for Virtual Machines

Hypervisor	WMware vSphere[1] Version 5.0, 5.1, 5.5	KVM QEMU Version 1.4.2	Xen Cloud Platform Version 1.6.10-61809c
vCPUs	8 to 32	8 to 32	8 to 15
Network Interfaces	1 to 10 network interfaces[2]	1 to 10 network interfaces[2]	1 to 10 network interfaces[2]
Memory	16, 24 or 32GB	16, 24 or 32GB	16, 24 or 32GB
Storage	100GB+	100GB+	100GB+

Note: Consult the product documentation for specific recommendations.

Virtual Machine Sizing by Hypervisor

Hypervisor	VMware			KVM			Xen	
vCPU	8	16	32	8	16	32	8	15[3]
Flows Per Second	110,000	280,000	300,000	110,000	240,000	300,000	120,000	120,000

[1] Use the default settings except for the following: Network Adapter: E1000; OS: Other Linux 32-bit; Storage: Thick Provisioned=Lazy Zeroed.

[2] Arbor recommends no more than 2 VM instances per network interface.

[3] Only up to 15 cores supported on Xen.

Qualified Platforms

Vendor and Model	Arbor Sightline	Cisco UCS 8200 M3	Dell PowerEdge R720	HP ProLiant DL380p Gen 8
CPU	2x E5-2648L v3 @ 1.8Ghz	2x E5-2609 @ 2.4GHz	2x E5-2620 @ 2GHz	2x E5-2670 @ 2.6GHz
CPU Cores[4]	24 (2 x 12)	16 (2 x 8)	8 (2 x 4) or 16 (2 x 8)	12 (2 x 6)
RAM	32GB	64GB	16GB or 32GB	64GB
Network Interfaces	4 or 8 x 1GigE; 2 x 10GigE; or 2 x 10GigE and 4 x 1GigE	4 x 10G SFP+	6 x 1G copper	12 x 1G copper
Storage[5]	6 x 480GB SSD	8 x 120GB SSD	4 x 480GB SSD	4 x 1TB 7.2K SAS
Chassis (Size)	Single Chassis (2RU)	Half-Width blade. 8 fit into 6RU Cisco UCS 5108 Blade Server Chassis	Single Chassis (2RU)	Single Chassis (2RU)
Flows Per Second	240,000	Flows per second is dependent upon hypervisor and virtual machine sizing		

[4] aa (bb x cc) expresses aa = number of physical CPUs; bb = number of cores per CPU; and cc = total number of CPU cores.

[5] Managed object data can be stored on multiple data storage devices/instances at the same time to provide redundancy.

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