

# HPE ProLiant DL20 Gen9 (E3-1240v6) 2-LFF

A server that runs best applications that are not well balanced across multiple CPU cores. Although, it has only 4 cores and 8 threads, it is especially great to run 10-12 personal virtual desktops which require a high frequency CPU for a short period of time, or 2-4 intensive used virtual machines. As HPE entry-level server, it doesn't have redundant features.



### No Commitment - Price per Month

The price is for a full calendar month, regardless of how many days are within that month. You can request to cancel the service anytime ("no contract"), but the service will be terminated, regardless if it's used or not, in the last day of that month.

Prices does not include taxes

	Total
Monthly	<b>\$108.38</b>
One-Time Setup	<b>\$0.00</b>
Delivery in	

## PRODUCT SPECIFICATIONS

The price includes the system described below. Components marked with ● can be replaced with others in the same category from Alternative Options list. Some options might not work if they are mixed together in this system

Good For	General Purpose	
Processor Model	<b>Xeon E3-1240 v6</b>	
Processor Core	4 core, 8 threads	
Processor Frequency	<b>3.70 GHz, turbo up to 4.1 GHz</b>	
Processor Technology	<b>HPE Gen9 with Intel Xeon Processor E3 v6 Family (Kabylake-DT platform)</b>	
System Score	9360000 for a single core application (average frequency x RAM speed) 37440000 for t...	
Motherboard	HPE based on Intel C232 Chipset	
Power Supply	290W Integrated Power Supply is the standard, non-redundant AC power supply with 80P...	
Power consumption	85W at 30% usage (56W idle, 150W at maximum load) with 16GB RAM, 10G network c...	
Datacenter	Coresite LA2 in <b>Los Angeles</b>	<span style="color: yellow;">1</span>
Unit Size	1U rack form factor with a lenth of 17.11" / 43.46cm	
RAM	8 GB ECC DDR4 running at 2400 MHz	<span style="color: yellow;">2</span>
RAM	No RAM included in standard configuration	
RAM Type	DDR4	
RAM Upgrade	Up to 64GB. The CPU has 2 memory channels, each one connected to 2 DIMM slots. Proces...	
Drives for 'OS'	1 x 240 GB (or more) SATA3 SSD	<span style="color: yellow;">3</span>
'OS' Storage Controller	HPE entry level B140i Controller embedded on motherboard. B140i supports SATA drives ...	
'OS' Drives	A dedicated SSD drive for the 'OS' (operating system) is available as a standard option. A seco...	
Remote Management	Shared iLO Remote Management Port - A dedicated chip that controls the server even when...	<span style="color: yellow;">4</span>
Remote Management	HPiLo4 Advanced. One network port (eth0) of server is permanently used by datacenter to e...	
SLA for Hardware	Expert SLA for Hardware. <b>Replacement in 4 hours</b> Spare parts are available on site and Vox...	<span style="color: yellow;">5</span>
Connection Speed	1 Gbps	<span style="color: yellow;">6</span>
Operating System	Oracle Linux (free, CentOS replacement)	<span style="color: yellow;">7</span>
Backup with R1Soft	I don't need to backup this server using the datacenter backup services	<span style="color: yellow;">8</span>

## PRODUCT SPECIFICATIONS (continued...)

SLA for Software	Standard SLA for Software. Works as expected Unlimited number of requests for operating...	9
PCI Express Slots	Slot 1 PCIe 3.0 x8 low-profile Slot 2 PCIe 3.0 x16 full-height, half-length (x8 if Slot 1 is pop...	
'Data' Storage Controller	Optional. When not installed, 'Data' drives are connected to 'OS' Storage Controller	
'Data' Drives	No HDD/SSD for 'Data' included in standard configuration	
'Data' Drives Supported (Internal)	No Hard Drive included. Supports up to 2 hot-plug LFF (3.5") or SFF (2.5") SATA/SAS. SAS d...	
Ethernet Ports	2 x 1 Gbs network ports embedded on motherboard via HPE Ethernet 332i network Adapt...	

## Location

### Colocation

Datacenter 1	Setup	Monthly
Datacenter: Coresite LA1 (One Wilshire)	-	+\$26.76
Datacenter: Equinix DA3	-	+\$12.57
Datacenter: ColoHouse Miami	-	-\$1.48
Datacenter: Equinix MIA1 (formerly Terremark N...	-	+\$46.63

### Colocation (continued...)

Datacenter (continued...) 1	Setup	Monthly
Datacenter: Coresite VA1	-	+\$0.57
Datacenter: Equinix DC2	-	+\$41.20
Datacenter: Customer Rented Cabinet	-	-\$27.42

## Hardware

### RAM

RAM 2	Setup	Monthly
16 GB ECC DDR4 running at 2400 MHz for DL2...	-	+\$13.00
24 GB ECC DDR4 running at 2400 MHz for DL2...	-	+\$26.00
32 GB ECC DDR4 running at 2400 MHz for DL2...	-	+\$39.00
48 GB ECC DDR4 running at 2400 MHz for DL2...	-	+\$65.00
64 GB ECC DDR4 running at 2400 MHz for DL2...	-	+\$91.00

### 'OS' Storage

Drives for 'OS' 3	Setup	Monthly
2 x 240 GB (or more) SATA3 SSD	-	+\$6.00

### 'Data' SSD/HDD Storage

RAID Controller for Internal Drives	Setup	Monthly
HP RAID P222 Smart Array (512MB, flash)	-	+\$20.00
HPE RAID P440 Smart Array (4GB, flash)	-	+\$40.00
HPE RAID P408i-p Smart Array Card (4GB flash,...	-	+\$41.00

SSD Datacenter (SATA)	Setup	Monthly
1 x 120 GB SATA3 SSD Intel DC S3500	-	+\$5.25
1 x 240 GB SATA3 SSD Intel DC S3510	-	+\$10.50
2 x 240 GB SATA3 SSD Intel DC S3510	-	+\$21.00
3 x 240 GB SATA3 SSD Intel DC S3510	-	+\$31.50
1 x 480 GB SATA3 SSD Intel DC S3510	-	+\$21.00
2 x 480 GB SATA3 SSD Intel DC S3510	-	+\$42.00
3 x 480 GB SATA3 SSD Intel DC S3510	-	+\$63.00
1 x 480 GB SATA3 SSD Intel DC S3520	-	+\$21.00
2 x 480 GB SATA3 SSD Intel DC S3520	-	+\$42.00
3 x 480 GB SATA3 SSD Intel DC S3520	-	+\$63.00
1 x 480 GB SATA3 SSD Intel D3-S4510	-	+\$21.00
2 x 480 GB SATA3 SSD Intel D3-S4510	-	+\$41.00

### 'Data' SSD/HDD Storage (continued...)

SSD Datacenter (SATA) (continued...)	Setup	Monthly
1 x 800 GB SATA3 SSD Intel DC S3510	-	+\$35.00
2 x 800 GB SATA3 SSD Intel DC S3510	-	+\$70.00
3 x 800 GB SATA3 SSD Intel DC S3510	-	+\$105.00
1 x 960 GB SATA3 SSD Intel DC S3520	-	+\$42.00
2 x 960 GB SATA3 SSD Intel DC S3520	-	+\$84.00
3 x 960 GB SATA3 SSD Intel DC S3520	-	+\$126.00
1 x 960 GB SATA3 SSD Intel D3-S4510	-	+\$39.00
2 x 960 GB SATA3 SSD Intel D3-S4510	-	+\$78.00
1 x 1.92 TB SATA3 SSD Intel DC S4500	-	+\$84.00
2 x 1.92 TB SATA3 SSD Intel DC S4500	-	+\$168.00
1 x 1.92 TB SATA3 SSD Intel D3-S4510	-	+\$76.00
2 x 1.92 TB SATA3 SSD Intel D3-S4510	-	+\$153.00
1 x 3.84 TB SATA3 SSD Intel D3-S4510	-	+\$149.00
2 x 3.84 TB SATA3 SSD Intel D3-S4510	-	+\$298.00

SSD Desktop (SATA)	Setup	Monthly
1 x 120 GB SSD OCZ Vertex3	-	+\$5.25
2 x 120 GB SSD OCZ Vertex3	-	+\$10.50
1 x 120 GB SSD Intel 520/530/535	-	+\$5.25
2 x 120 GB SSD Intel 520/530/535	-	+\$10.50
1 x 120 GB SSD Crucial BX100	-	+\$5.25
2 x 120 GB SSD Crucial BX100	-	+\$10.50
1 x 128 GB SSD OCZ Vertex4	-	+\$5.60
2 x 128 GB SSD OCZ Vertex4	-	+\$11.20
1 x 240 GB SSD OCZ Vertex3	-	+\$10.50
2 x 240 GB SSD OCZ Vertex3	-	+\$21.00
1 x 240 GB SSD Intel 520/530/535	-	+\$10.50
2 x 240 GB SSD Intel 520/530/535	-	+\$21.00
1 x 250 GB SSD Crucial MX200	-	+\$10.94
2 x 250 GB SSD Crucial MX200	-	+\$21.88
1 x 480 GB SSD Intel 520/530/535	-	+\$16.15

# Hardware (continued...)

## 'Data' SSD/HDD Storage (continued...)

SSD Desktop (SATA) (continued...)	Setup	Monthly
2 x 480 GB SSD Intel 520/530/535	-	+\$32.31
1 x 500 GB SSD Crucial MX200	-	+\$16.00
2 x 500 GB SSD Crucial MX200	-	+\$33.00
1 x 512 GB SSD Crucial MX100	-	+\$16.00
2 x 512 GB SSD Crucial MX100	-	+\$33.00
1 x 1 TB SSD Crucial MX200	-	+\$25.00
2 x 1 TB SSD Crucial MX200	-	+\$50.00
<b>HDD Enterprise (SATA)</b>		
	Setup	Monthly
1 x 4 TB SATA3 HDD Seagate, 4.16 ms, Enterpr..	-	+\$15.00
2 x 4 TB SATA3 HDD Seagate, 4.16 ms, Enterpr..	-	+\$30.00
1 x 12 TB SATA3 HDD Seagate, 4.16 ms, Enter...	-	+\$35.00
2 x 12 TB SATA3 HDD Seagate, 4.16 ms, Enter...	-	+\$71.00
<b>HDD Archive (SATA)</b>		
	Setup	Monthly
1 x 500 GB SATA3 HDD, 7200rpm, Archive-cla...	-	+\$3.00
2 x 500 GB SATA3 HDD, 7200rpm, Archive-cla...	-	+\$6.00
1 x 1 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$5.00
2 x 1 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$10.00
1 x 1,5 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$6.00
2 x 1,5 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$12.00
1 x 2 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$7.00
2 x 2 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$14.00
1 x 3 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$9.00
2 x 3 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$19.00

## 'Data' NVMe Storage

NVMe Datacenter Card	Setup	Monthly
1 x 2 TB NVMe PCIe x4 card Intel P3600	-	+\$149.00
2 x 2 TB NVMe PCIe x4 card Intel P3600	-	+\$298.00

## 'Data' External Storage

Storage Boxes Connectivity	Setup	Monthly
External SAS/SATA port to connect one external...	-	-
External SAS/SATA ports to connect 2 external S...	-	-

# Connectivity

## Network Access

Connection Speed <b>6</b>	Setup	Monthly
2 Gbps (2 x 1 Gbps LACP)	-	+\$5.40
4 Gbps (4 x 1 Gbps LACP)	-	+\$21.60
10 Gbps	-	+\$32.40
20 Gbps (2 x 10 Gbps LACP)	-	+\$64.80

## 'Data' External Storage (continued...)

Storage Boxes Connectivity (continued...)	Setup	Monthly
External SAS/SATA ports to connect 3-4 externa...	-	-

## Network Cards

Ethernet 1G Cards (PCIe)	Setup	Monthly
1 x Intel Gigabit I350-T2 Server Adapter (2 x RJ...	-	+\$13.00
2 x Intel Gigabit I350-T2 Server Adapter (2 x RJ...	-	+\$26.00
1 x HP Gigabit 361T Ethernet Server Adapter (2...	-	+\$14.00
2 x HP Gigabit 361T Ethernet Server Adapter (2...	-	+\$28.00
1 x Intel Gigabit CT Desktop Adapter (1 x RJ45)	-	+\$3.00
2 x Intel Gigabit CT Desktop Adapter (1 x RJ45)	-	+\$6.00

Ethernet 10G Cards (PCIe)	Setup	Monthly
1 x Intel TenGigabit X520-DA2 Server Adapter,...	-	+\$28.90
2 x Intel TenGigabit X520-DA2 Server Adapter,...	-	+\$57.80
1 x Intel TenGigabit X710-DA4 Server Adapter,...	-	+\$41.00
2 x Intel TenGigabit X710-DA4 Server Adapter,...	-	+\$82.00
1 x Intel TenGigabit X722-DA4 Server Adapter,...	-	+\$49.00
1 x HP TenGigabit 560SFP+ Server Adapter (2 x...	-	+\$26.00
1 x HP TenGigabit NC523SFP Server Adapter (2...	-	+\$26.00

Ethernet 40G Cards (PCIe)	Setup	Monthly
1 x Intel XL710-QDA2 Ethernet Server Adapter...	-	+\$46.50
2 x Intel XL710-QDA2 Ethernet Server Adapter...	-	+\$93.00

## Other Server Hardware

TPM Microcontroller	Setup	Monthly
HP TPM Module	+\$16.20	+\$9.72

## Network Access (continued...)

Connection Speed (continued...) <b>6</b>	Setup	Monthly
40 Gbps (4 x 10 Gbps LACP)	-	+\$129.60
40 Gbps	-	+\$86.40
80 Gbps (2 x 40 Gbps LACP)	-	+\$162.00

# Software

## Software

Operating System <b>7</b>	Setup	Monthly
CentOS	-	-
Fedora	-	-
Debian	-	-
Ubuntu	-	-
FreeBSD	-	-
CloudLinux	-	+\$12.85
Windows Server 2022 Standard (8 x 2-core lice..	-	+\$56.16
Windows Server 2022 Datacenter (8 x 2-core l...	-	+\$389.64
Windows Server 2019 Standard (8 x 2-core lice..	-	+\$56.16
Windows Server 2019 Datacenter (8 x 2-core l...	-	+\$389.64
Windows Server 2016 Standard (8 x 2-core lice..	-	+\$56.16
Windows Server 2016 Datacenter (8 x 2-core l...	-	+\$389.64
A different operating system	-	-
<b>Control Panel Software</b>	<b>Setup</b>	<b>Monthly</b>
cPanel / WHM running inside a virtual server (up ...	-	+\$27.60
cPanel / WHM running inside 2 virtual servers (up...	-	+\$55.20

## Software (continued...)

Control Panel Software (continued...)	Setup	Monthly
cPanel / WHM running inside 3 virtual servers (up...	-	+\$82.80
cPanel / WHM running inside 4 virtual servers (up...	-	+\$110.40
cPanel / WHM running inside 5 virtual servers (up...	-	+\$138.00

## Backup

Backup with R1Soft <b>8</b>	Setup	Monthly
Full Server Backup with R1Soft Software	-	+\$6.00

## Software Support

SLA for Software <b>9</b>	Setup	Monthly
Advisory SLA for Software	+\$216.00	+\$64.80
Expert SLA for Software	+\$216.00	+\$129.60
Ultimate SLA for Software	+\$324.00	+\$313.20