

Dell EMC Hardware Compatibility List (HCL) for Oracle Linux (OL) and Oracle VM (OVM)

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1 Dell EMC & Oracle Joint HCL Support Policy

This document explains some but not all Dell EMC & Oracle Joint HCL support policy in regards to Oracle Linux (OL) with the Unbreakable Enterprise Kernel (UEK) and Oracle VM (OVM). It is provided merely to help interpret what is supported and not-supported.

In this document, the following OS update definitions are used to explain the HCL support policy:

- OL $x.y$ where 'x' is considered major update and 'y' is considered as minor update
- UEK $RxUy$ where 'x' is considered major update and 'y' is considered as minor update
- $3.8.13-xyz$ where '3.8.13' is considered major update kernel version and '-xyz' is considered minor update kernel version.
- OVM $x.x.y$ 'x.x' is considered major update and 'y' is considered as minor update

HCL Support policies

1. **Newer or higher minor updates are implicitly supported and do not require explicit cert for support**

E.g.: If R730 is certified with OL 6.5 with the UEK R3U2 (3.8.13-35) and OVM 3.3.1 then

- a. All newer or higher *minor* updates of OL 6 is **implicitly supported**, unless stated otherwise, and **does not require** new HCL cert for them. So, OL 6.6, OL 6.7, etc. is auto-supported on R730.
- b. All newer or higher *minor* updates of UEK R3 (3.8.13-xyz) is **implicitly supported**, unless stated otherwise, and **does not require** new HCL cert for them. So, UEK R3U3 (3.8.13-44), UEK R3U4 (3.8.13-55), etc. is auto-supported on R730 running OL 6.5 or higher.
- c. All newer or higher *minor* updates of OVM 3.3 is **implicitly supported**, unless stated otherwise, and **does not require** new HCL cert for them. So, OVM 3.3.2, OVM 3.3.3, etc. is auto-supported on R730.

EXCEPTION(s): Based on the above provided example, OL 6.8 with the default UEK kernel is **not** auto-supported on R730 based on HCL cert with UEK R3 since default UEK kernel in OL 6.8 is UEK R4. However, OL 6.8 with a newer UEK R3 kernel *will be* auto-supported. These exception rules will, in general, extend to similar scenarios where the default UEK kernel in a minor OL or OVM release switches from one major version of UEK to another.

2. **Major updates are not implicitly supported and require new HCL cert for support**

E.g. If R730 is certified with OL 6.5 with the UEK R3U2 (3.8.13-35) and OVM 3.3.1 then

- a. All newer or higher *major* updates of OL is **not** implicitly supported, unless stated otherwise, and **requires** new HCL cert. So, OL 7 is **not** auto-supported on R730 unless certified and listed explicitly.
- b. All newer or higher *major* updates of UEK is **not** implicitly supported, unless stated otherwise, and **requires** new HCL cert. So, UEK R4 (4.1.12-xyz) is **not** auto-supported on R730 unless certified and listed explicitly.
- c. All newer or higher *major* updates of OVM is **not** implicitly supported, unless stated otherwise, and **requires** new HCL cert. So, OVM 4 or OVM 3.4 is **not** auto-supported on R730 unless certified and listed explicitly.

3. **UEK cert. does not auto-extend across major releases and OSes:** Though it is possible that two different major versions of OL (e.g. OL 6 and OL 7) could be running the same version of UEK (e.g. UEK R3U7), cert on one major version does not auto-extend to cert on the other major version. Similarly, cert of a particular version of UEK running within OL does not auto-extend to OVM that is running the same version of UEK kernel in Dom0, and vice-versa.

E.g. If R730 is certified with OL 6 with **the** UEK R3U5 (3.8.13-68) then

- a. OL 7 with the same UEK R3U5 (3.8.13-68) kernel is **not** implicitly supported, and requires explicit HCL cert, and vice-versa
- b. OVM 3.3.3 with the same UEK R3U5 (3.8.13-68) kernel in Dom0 is **not** implicitly supported, and requires explicit HCL cert, and vice-versa

(Note: Blank cell indicates not-certified; UEK = Unbreakable Enterprise Kernel; RHCK = Red Hat Compatible Kernel)

For RHCK versions supported by platforms refer to:

[RHEL Support Matrix](#)

Dell EMC OL and OVM HCLs on Oracle's site can be found at:

[Dell EMC Oracle HCLs <search by Dell>](#)

2 Support Matrix - PowerEdge 13th Generation Servers

2.1 Oracle Linux (OL) with UEK Release 4

Dell EMC PowerEdge 13 th Generation Servers – Oracle Linux (OL) with UEK Release 4						
Server	CPU Series	OL 7 (x86_64)		OL 6 (x86_64)		Notes
		ISO	UEK R4	ISO	UEK R4	
Rack Servers						
R630	Xeon E5-2600 v4	OL 7.3 (or higher)	4.1.12-61 (or higher)	OL 6.8 (or higher)	4.1.12-37 (or higher)	Min. BIOS needed is v2.1.5
R730	Xeon E5-2600 v4	OL 7.3 (or higher)	4.1.12-61 (or higher)	OL 6.8 (or higher)	4.1.12-37 (or higher)	Min. BIOS needed is v2.1.5
R730xd	Xeon E5-2600 v4	OL 7.3 (or higher)	4.1.12-61 (or higher)	OL 6.8 (or higher)	4.1.12-37 (or higher)	Min. BIOS needed is v2.1.5
R930	Xeon E7-4800 v4 Xeon E7-8800 v4	OL 7.3 (or higher)	4.1.12-61 (or higher)	OL 6.8 (or higher)	4.1.12-37 (or higher)	Min. BIOS needed is v2.0.1
Tower Servers						
T630	Xeon E5-2600 v4	OL 7.3 (or higher)	4.1.12-61 (or higher)	OL 6.8 (or higher)	4.1.12-37 (or higher)	Min. BIOS needed is v2.1.5
Converged, Modular, or Blades Platforms						
M1000e and VRTX Blades						
M630	Xeon E5-2600 v4	OL 7.3 (or higher)	4.1.12-61 (or higher)	OL 6.8 (or higher)	4.1.12-37 (or higher)	Min. BIOS needed is v2.1.5
M830	Xeon E5-4600 v4	OL 7.3 (or higher)	4.1.12-61 (or higher)	OL 6.8 (or higher)	4.1.12-37 (or higher)	Min. BIOS needed is v2.0.3
FX2 Blades						
FC630	Xeon E5-2600 v4	OL 7.3 (or higher)	4.1.12-61 (or higher)	OL 6.8 (or higher)	4.1.12-37 (or higher)	Min. BIOS needed is v2.1.5
FC830	Xeon E5-4600 v4	OL 7.3 (or higher)	4.1.12-61 (or higher)	OL 6.8 (or higher)	4.1.12-37 (or higher)	Min. BIOS needed is v2.0.3

2.2 Oracle Linux (OL) with UEK Release 3

Dell EMC PowerEdge 13 th Generation Servers – Oracle Linux (OL) with UEK Release 3						
Server	CPU Series	OL 7 (x86_64)		OL 6 (x86_64)		Notes
		ISO	UEK R3	ISO	UEK R3	
Rack Servers						
R630	Xeon E5-2600 v3	OL 7.0 (or higher)	3.8.13-35 (or higher)	OL 6.5 (or higher)	3.8.13-35 (or higher)	
				OL 6.6 (or higher)	3.8.13-44 (or higher)	
				OL 6.7 (or higher)	3.8.13-68 (or higher)	
	Xeon E5-2600 v4	OL 7.2 (or higher)	3.8.13-118 (or higher)	OL 6.7 (or higher)	3.8.13-118 (or higher)	Min. BIOS needed is v2.1.5
R730	Xeon E5-2600 v3	OL 7.0 (or higher)	3.8.13-35 (or higher)	OL 6.5 (or higher)	3.8.13-35 (or higher)	
				OL 6.6 (or higher)	3.8.13-44 (or higher)	
				OL 6.7 (or higher)	3.8.13-68 (or higher)	
	Xeon E5-2600 v4	OL 7.2 (or higher)	3.8.13-118 (or higher)	OL 6.7 (or higher)	3.8.13-118 (or higher)	Min. BIOS needed is v2.1.5
R730xd	Xeon E5-2600 v3	OL 7.0 (or higher)	3.8.13-35 (or higher)	OL 6.5 (or higher)	3.8.13-35 (or higher)	
				OL 6.6 (or higher)	3.8.13-44 (or higher)	
				OL 6.7 (or higher)	3.8.13-68 (or higher)	
	Xeon E5-2600 v4	OL 7.2 (or higher)	3.8.13-118 (or higher)	OL 6.7 (or higher)	3.8.13-118 (or higher)	Min. BIOS needed is v2.1.5
R930	Xeon E7-4800 v3 Xeon E7-8800 v3	OL 7.0 (or higher)	3.8.13-35 (or higher)	OL 6.6 (or higher)	3.8.13-44 (or higher)	
				OL 6.7 (or higher)	3.8.13-118 (or higher)	
		Xeon E7-4800 v4 Xeon E7-8800 v4	OL 7.2 (or higher)	3.8.13-118 (or higher)	OL 6.7 (or higher)	3.8.13-118 (or higher)
Tower Servers						
T630	Xeon E5-2600 v3	OL 7.0 (or higher)	3.8.13-35 (or higher)	OL 6.5 (or higher)	3.8.13-35 (or higher)	
				OL 6.6 (or higher)	3.8.13-44 (or higher)	
				OL 6.7 (or higher)	3.8.13-68 (or higher)	
	Xeon E5-2600 v4	OL 7.2 (or higher)	3.8.13-118 (or higher)	OL 6.7 (or higher)	3.8.13-118 (or higher)	Min. BIOS needed is v2.1.5
Converged, Modular, or Blades Platforms						
M1000e and VRTX Blades						
M630	Xeon E5-2600 v3	OL 7.0 (or higher)	3.8.13-35 (or higher)	OL 6.6 (or higher)	3.8.13-44 (or higher)	
				OL 6.7 (or higher)	3.8.13-68 (or higher)	
				OL 6.7 (or higher)	3.8.13-118 (or higher)	Min. BIOS needed is v2.1.5
M830	Xeon E5-4600 v3	OL 7.0 (or higher)	3.8.13-35 (or higher)	OL 6.7 (or higher)	3.8.13-118 (or higher)	
				OL 6.7 (or higher)	3.8.13-118 (or higher)	Min. BIOS needed is v2.0.3
		Xeon E5-4600 v4	OL 7.2 (or higher)	3.8.13-118 (or higher)	OL 6.7 (or higher)	3.8.13-118 (or higher)
FX2 Blades						
FC630	Xeon E5-2600 v3	OL 7.0 (or higher)	3.8.13-35 (or higher)	OL 6.7 (or higher)	3.8.13-68 (or higher)	
	Xeon E5-2600 v4	OL 7.2 (or higher)	3.8.13-118 (or higher)	OL 6.7 (or higher)	3.8.13-118 (or higher)	Min. BIOS needed is v2.1.5
FC830	Xeon E5-4600 v3	OL 7.0 (or higher)	3.8.13-35 (or higher)	OL 6.7 (or higher)	3.8.13-118 (or higher)	
	Xeon E5-4600 v4	OL 7.2 (or higher)	3.8.13-118 (or higher)	OL 6.7 (or higher)	3.8.13-118 (or higher)	Min. BIOS needed is v2.0.3

2.3 Oracle VM (OVM) Release 3

Dell EMC PowerEdge 13 th Generation Servers – Oracle VM (OVM) Release 3				
Server	CPU Series	OVM 3.3 (x86_64)	OVM 3.4 (x86_64)	Notes
Rack Servers				
R630	Xeon E5-2600 v3	OVM 3.3.1 (or higher)		
	Xeon E5-2600 v4	OVM 3.3.4 (or higher)	OVM 3.4.1 (or higher)	Min. BIOS needed is v2.1.5
R730	Xeon E5-2600 v3	OVM 3.3.1 (or higher)		
	Xeon E5-2600 v4	OVM 3.3.4 (or higher)	OVM 3.4.1 (or higher)	Min. BIOS needed is v2.1.5
R730xd	Xeon E5-2600 v3	OVM 3.3.1 (or higher)		
	Xeon E5-2600 v4	OVM 3.3.4 (or higher)	OVM 3.4.1 (or higher)	Min. BIOS needed is v2.1.5
R930	Xeon E7-4800 v3	OVM 3.3.3 (or higher)		
	Xeon E7-8800 v3			
	Xeon E7-4800 v4 Xeon E7-8800 v4	OVM 3.3.4 (or higher)	OVM 3.4.1 (or higher)	Min. BIOS needed is v2.0.1
Tower Servers				
T630	Xeon E5-2600 v3	OVM 3.3.1 (or higher)		
	Xeon E5-2600 v4	OVM 3.3.4 (or higher)	OVM 3.4.1 (or higher)	Min. BIOS needed is v2.1.5
Converged, Modular, or Blades Platforms¹				
M1000e and VRTX Blades				
M630	Xeon E5-2600 v3	OVM 3.3.3 (or higher)		
	Xeon E5-2600 v4	OVM 3.3.4 (or higher)	OVM 3.4.1 (or higher)	Min. BIOS needed is v2.1.5
M830	Xeon E5-4600 v4	OVM 3.3.4 (or higher)	OVM 3.4.1 (or higher)	Min. BIOS needed is v2.0.3
FX2 Blades				
FC630	Xeon E5-2600 v3	OVM 3.3.1 (or higher)		
	Xeon E5-2600 v4	OVM 3.3.4 (or higher)	OVM 3.4.1 (or higher)	Min. BIOS needed is v2.1.5
FC830	Xeon E5-4600 v4	OVM 3.3.4 (or higher)	OVM 3.4.1 (or higher)	Min. BIOS needed is v2.0.3

¹ Blades are not supported with SAS-based shared storage within the M1000e, VRTX, or FX2 modular chassis

3 Support Matrix - PowerEdge 12th Generation Servers

3.1 Oracle Linux (OL) with UEK and Oracle VM (OVM)

Dell EMC PowerEdge 12th Generation Servers					
	Processor	OL 7 x86_64 (UEK)	OL 6 x86_64 (UEK)	OL 5 x86_64 (UEK)	Oracle VM (OVM)
Rack Servers					
R620	Xeon E5-2600		OL 6.2 (UEK 2.6.32-300 or higher)	OL 5.7 (UEK 2.6.32-200 or higher)	OVM 3.1.1 (UEK 2.6.39-200 or higher)
	Xeon ES-2600 v2	OL 7.0 (UEK 3.8.13-35 or higher)	OL 6.4 (UEK 3.8.13-16 or higher)	OL 5.9 (UEK 2.6.39-300 or higher)	OVM 3.2.8 (UEK 2.6.39-400 or higher)
			OL 6.5 (UEK 3.8.13-16 or higher)	OL 5.10(UEK 2.6.39-400 or higher)	
			OL 6.7 (UEK 3.8.13-68 or higher)		
R720	Xeon E5-2600		OL 6.2 (UEK 2.6.32-300 or higher)	OL 5.7 (2.6.32-200 or higher)	OVM 3.1.1 (UEK 2.6.39-200 or higher)
R720	Xeon ES-2600 v2		OL 6.4 (UEK 3.8.13-16 or higher)	OL 5.9 (UEK 2.6.39-300 or higher)	OVM 3.2.8 (UEK 2.6.39-400 or higher)
			OL 6.5 (UEK 3.8.13-16 or higher)	OL 5.10(UEK 2.6.39-400 or higher)	
			OL 6.6 (UEK 3.8.13-44 or higher)		
			OL 6.7 (UEK 3.8.13-68 or higher)		
R720xd	Xeon E5-2600		OL 6.2 (UEK 2.6.32-300 or higher)	OL 5.7 (2.6.32-200 or higher)	OVM 3.1.1 (UEK 2.6.39-200 or higher)
R720xd	Xeon ES-2600 v2		OL 6.4 (UEK 3.8.13-16 or higher)	OL 5.9 (UEK 2.6.39-300 or higher)	OVM 3.2.8 (UEK 2.6.39-400 or higher)
			OL 6.5 (UEK 3.8.13-16 or higher)	OL 5.10(UEK 2.6.39-400 or higher)	
			OL 6.6 (UEK 3.8.13-44 or higher)		
			OL 6.7 (UEK 3.8.13-68 or higher)		
R820	Xeon E5-4600		OL 6.2 (UEK 2.6.32-300 or higher)	OL 5.9 (UEK 2.6.39-300 or higher)	OVM 3.1.1 (UEK 2.6.39-200 or higher)
			OL 6.3 (UEK 2.6.39-200 or higher)		
			OL 6.4 (UEK 2.6.39-400 or higher)		
	Xeon E5-4600 v2	OL 7.0 (UEK 3.8.13-35 or higher)	OL 6.4 (UEK 3.8.13-16 or higher)		OVM 3.2.7 (UEK 2.6.39-300 or higher)
			OL 6.5 (UEK 3.8.13-16 or higher)		OVM 3.3.1 (UEK 3.8.13-26 or higher)
R920	Xeon E7-2800 v2	OL 7.0 (UEK 3.8.13-35 or higher)	OL 6.4 (UEK 3.8.13-16 or higher)		OVM 3.2.8 (UEK 2.6.39-400 or higher)
	Xeon E7-4800 v2	OL 7.0 (UEK 3.8.13-35 or higher)	OL 6.5 (UEK 3.8.13-16 or higher)		OVM 3.2.8 (UEK 2.6.39-400 or higher)
	Xeon E7-8800 v2	OL 7.0 (UEK 3.8.13-35 or higher)	OL 6.5 (UEK 3.8.13-16 or higher)		OVM 3.2.8 (UEK 2.6.39-400 or higher)
			OL 6.6 (UEK 3.8.13-44 or higher)		OVM 3.3 (UEK 3.8.13-26 or higher)
			OL 6.7 (UEK 3.8.13-68 or higher)		
Blade Servers					
M620	Xeon E5-2600		OL 6.2 (UEK 2.6.32-300 or higher)	OL 5.8 (UEK 2.6.32-300 or higher)	OVM 3.1.1 (UEK 2.6.39-200 or higher)
			OL 6.3 (UEK 2.6.39-200 or higher)	OL 5.9 (UEK 2.6.39-300 or higher)	
			OL 6.4 (UEK 2.6.39-400 or higher)		
	Xeon ES-2600 v2		OL 6.4 (UEK 3.8.13-16 or higher)	OL 5.10 (UEK 2.6.39-400 or higher)	OVM 3.2 (UEK 2.6.39-300 or higher)
			OL 6.5 (UEK 3.8.13-16 or higher)		OVM 3.3 (UEK 3.8.13-26 or higher)
OL 6.6 (UEK 3.8.13-44 or higher)					
M820	Xeon E5-4600		OL 6.3 (UEK 2.6.39-200 or higher)	OL 5.9 (UEK 2.6.39-300 or higher)	OVM 3.1.1 (UEK 2.6.39-200 or higher)
M820	Xeon E5-4600 v2		OL 6.4 (UEK 2.6.39-400 or higher)		
			OL 6.4 (UEK 3.8.13-16 or higher)		
			OL 6.5 (UEK 3.8.13-16 or higher)		
			OL 6.6 (UEK 3.8.13-44 or higher)		
			OL 6.7 (UEK 3.8.13-68 or higher)		
Tower Servers					
T620	Xeon E5-2600		OL 6.2 (UEK 2.6.32-300 or higher)	OL 5.7 (2.6.32-200 or higher)	OVM 3.1.1 (UEK 2.6.39-200 or higher)
			OL 6.3 (UEK 2.6.39-200 or higher)	OL 5.10 (UEK 2.6.39-400 or higher)	OVM 3.2 (UEK 2.6.39-300 or higher)
			OL 6.4 (UEK 2.6.39-400 or higher)		
	Xeon ES-2600 v2		OL 6.4 (UEK 3.8.13-16 or higher)		
			OL 6.5 (UEK 3.8.13-16 or higher)		
			OL 6.6 (UEK 3.8.13-44 or higher)		
			OL 6.7 (UEK 3.8.13-68 or higher)		

4 Support Matrix - PowerEdge 11th Generation Servers

4.1 Oracle Linux (OL) with UEK and Oracle VM (OVM)

Dell PowerEdge 11th Generation Servers				
	Processor	OL 6 x86_64 (UEK)	OL 5 x86_64 (UEK)	Oracle VM (OVM)
Rack Servers				
R310		OL 6.3 (UEK 2.6.39-200 or higher)	OL 5.9 (UEK 2.6.39-300 or higher)	OVM 3.1 (UEK 2.6.39-200 or higher)
		OL 6.4 (UEK 2.6.39-400 or higher)	OL 5.10 (UEK 2.6.39-400 or higher)	OVM 3.2 (UEK 2.6.39-300 or higher)
		OL 6.4 (UEK 3.8.13-16 or higher)		
		OL 6.5 (UEK 3.8.13-16 or higher)		
		OL 6.6 (UEK 3.8.13-44 or higher)		
		OL 6.7 (UEK 3.8.13-68 or higher)		
R610			OL 5.3 (or higher)	
R710			OL 5.3 (or higher)	
R715		OL 6.0 (or higher)	OL 5.5 (or higher)	
		OL 6.4 (UEK 3.8.13-16 or higher)	OL 5.9 (UEK 2.6.39-300 or higher)	
		OL 6.5 (UEK 3.8.13-16 or higher)	OL 5.10 (UEK 2.6.39-400 or higher)	OVM 3.2 (UEK 2.6.39-300 or higher)
		OL 6.6 (UEK 3.8.13-44 or higher)		
		OL 6.7 (UEK 3.8.13-68 or higher)		
R810			OL 5.8 (UEK 2.6.32-300 or higher)	OVM 3.0 (UEK 2.6.32.21 or higher)
R815		OL 6.0 (or higher)	OL 5.5 (or higher)	
		OL 6.3 (UEK 2.6.39-200 or higher)	OL 5.9 (UEK 2.6.39-300 or higher)	OVM 3.1 (UEK 2.6.39-200 or higher)
		OL 6.4 (UEK 2.6.39-400 or higher)	OL 5.10 (UEK 2.6.39-400 or higher)	OVM 3.2 (UEK 2.6.39-300 or higher)
		OL 6.4 (UEK 3.8.13-16 or higher)		
		OL 6.5 (UEK 3.8.13-16 or higher)		
		OL 6.6 (UEK 3.8.13-44 or higher)		
R910	Xeon 7500	OL 6.0 (or higher)	OL 5.5 (or higher)	
	Xeon E7-4800	OL 6.0 (or higher)	OL 5.5 (or higher)	
	Xeon E7-8800	OL 6.0 (or higher)	OL 5.5 (or higher)	
		OL 6.3 (UEK 2.6.39-200 or higher)	OL 5.9 (UEK 2.6.39-300 or higher)	OVM 3.1 (UEK 2.6.39-200 or higher)
		OL 6.4 (UEK 2.6.39-400 or higher)	OL 5.10 (UEK 2.6.39-400 or higher)	OVM 3.2 (UEK 2.6.39-300 or higher)
		OL 6.4 (UEK 3.8.13-16 or higher)		
		OL 6.5 (UEK 3.8.13-16 or higher)		
		OL 6.6 (UEK 3.8.13-44 or higher)		
	OL 6.7 (UEK 3.8.13-68 or higher)			
Blade Servers				
M610		OL 6.0 (or higher)	OL 5.3 (or higher)	
		OL 6.4 (UEK 2.6.39-400 or higher)	OL 5.9 (UEK 2.6.39-300 or higher)	OVM 3.1 (UEK 2.6.39-200 or higher)
		OL 6.4 (UEK 3.8.13-16 or higher)	OL 5.10 (UEK 2.6.39-400 or higher)	OVM 3.2 (UEK 2.6.39-300 or higher)
		OL 6.5 (UEK 3.8.13-16 or higher)		
		OL 6.6 (UEK 3.8.13-44 or higher)		
		OL 6.7 (UEK 3.8.13-68 or higher)		
M710			OL 5.3 (or higher)	
M910		OL 6.0 (or higher)	OL 5.5 (or higher)	
		OL 6.4 (UEK 2.6.39-400 or higher)	OL 5.10 (UEK 2.6.39-400 or higher)	OVM 3.2 (UEK 2.6.39-300 or higher)
		OL 6.4 (UEK 3.8.13-16 or higher)		
		OL 6.5 (UEK 3.8.13-16 or higher)		
		OL 6.6 (UEK 3.8.13-44 or higher)		
M915			OL 5.6 (or higher)	
Tower Servers				
T610			OL 5.3 (or higher)	