



The science behind the report: Streamline more than server registration

This document describes what we tested, how we tested, and what we found. To learn how these facts translate into real-world benefits, read the report [Streamline more than server registration](#).

We concluded our hands-on testing on April 29, 2022. During testing, we determined the appropriate hardware and software configurations and applied updates as they became available. The results in this report reflect configurations that we finalized on April 29, 2022 or earlier. Unavoidably, these configurations may not represent the latest versions available when this report appears.

Our results

To learn more about how we have calculated the wins in this report, go to <http://facts.pt/calculating-and-highlighting-wins>. Unless we state otherwise, we have followed the rules and principles we outline in that document.

Table 1: Results of our hands-on testing.

	Time (min:sec)	Steps	Notes
Registration through OME discovery	01:22	6	Requires only iDRAC credentials and knowledge of the iDRAC IP address. We accomplished this task through a single console.
Registration through SCG adapter + OME discovery	01:24	6	Requires deployment of two virtual appliances. We accomplished this task through two consoles.

System configuration information

Table 2: Detailed information on the three systems we tested.

System configuration information	Dell PowerEdge R740 x3		
BIOS name and version	Dell 2.12.2		
Non-default BIOS settings	Intel® Turbo Boost enabled, Virtualization enabled		
Operating system name and version/build number	VMware® ESXi™ 7.0.2		
Date of last OS updates/patches applied	01/15/22		
Power management policy	Balanced		
Processor			
Number of processors	2		
Vendor and model	Intel Xeon® Platinum 8168		
Core count (per processor)	24		
Core frequency (GHz)	2.70		
Stepping	H0		
Memory module(s)			
Total memory in system (GB)	256		
Number of memory modules	8		
Vendor and model	Samsung® M393A4K40CB2-CTD		
Size (GB)	32		
Type	PC4-21300V-R		
Speed (MHz)	2,666		
Speed running in the server (MHz)	2,666		
Storage controller			
Vendor and model	Dell PERC H740P		
Cache size (GB)	8		
Firmware version	50.5.0-1750		
Driver version	7.716.03.00		
Local storage (type A)			
Number of drives	2	2	4
Drive vendor and model	Toshiba® THNSF8120CCSE	Toshiba PX05SVB096Y	Seagate® ST91000640NS
Drive size (GB)	111.25	893.75	931
Drive information (speed, interface, type)	SATA SSD 6 Gbps	SAS SSD 12 Gbps	SATA SSD 3 Gbps

System configuration information		Dell PowerEdge R740 x3
Network adapter		
Vendor and model	Broadcom® Gigabit Ethernet BCM5720	
Number and type of ports	4 x 1 GbE	
Cooling fans		
Vendor and model	Dell 4VXP3	
Number of cooling fans	6	
Power supplies		
Vendor and model	Dell 0Y26KXA02	
Number of power supplies	2	
Wattage of each (W)	1,100	

How we tested

Through OpenManage Enterprise (OME) (single or multiple servers)

1. Open a browser, and connect to OME.
2. Enter the Admin credentials, and click Login.
3. Click Devices.
4. Hover over Discovery, and select Discover Devices.
5. Select Server as the Device type. On the pop-up screen, to accept the default integrated Dell Remote Access Controller (iDRAC), click OK.
6. Enter the IP address or range you want to discover. Use the root credentials for the Services API Credentials. Check the box for enable trap reception. Check the box that appears for Set Community String, and click Finish.

When the discovery job completes, the new server will be automatically imported into the Plugin Groups→Services group if it has a ProSupport entitlement. Because the OME console is already registered with SupportAssist, the managed server is automatically managed with the same credentials.

Through Dell Technologies Services secure connect gateway (SCG) (with adapter connection to OME)

1. Open a browser and connect to your SCG.
2. Enter the Admin credentials and click Login.
3. Click Device Management→Adapter→Connect to an adapter.
4. Enter the hostname and friendly name for your OME connection. Enter the OME username and password (we used admin). Select or create a credential profile. We clicked Create a new credential profile.
5. Check the box for iDRAC. Scroll down and expand Add account credentials. Enter the credential profile name, and select iDRAC for device type. Provide the username and password for this credential set. We used the default root / calvin. Click Add credentials. Then scroll up and use the pulldown menu beside iDRAC to select the newly created credentials. Click Create profile.
6. Accept the default (Every 12 hours) for How often do you want to update your device inventory, and click Connect to an adapter.

Read the report at <https://facts.pt/4doA0w1> ▶

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