

# The evolution of Dell EMC PowerEdge server systems management

Technology that anticipates your infrastructure needs before you realize them may be closer than you think. Over 13 years of hands-on testing, we've found that the tools in the Dell EMC™ OpenManage™ Suite have steadily improved the speed and quality of systems management.

2020

## Boost data center staff productivity

We found the Dell EMC systems management console saved time and effort on data center tasks no matter how many Dell EMC PowerEdge™ servers you have.<sup>1</sup>

Small deployments

Initial deployment for 1 server

Save over 4 minutes and up to 14 steps

Medium-sized projects

Repurpose hardware for 250 servers\*

Save nearly 5 hours and up to 1,741 steps

Large-scale tasks

Update firmware for 1,000 servers\*

Save over 11 hours and up to 2,996 steps

Using Dell EMC OpenManage Enterprise 3.4 vs. manual  
\*Extrapolation based on testing of one, two, and three servers

2019–  
2020

## Give admins time back with cloud services-based integrations

Our hands-on testing proved that Dell EMC OpenManage integrations could help admins manage diverse on-premises resources with simplicity and speed.

Simultaneously update hypervisor and firmware with VMware® integration<sup>2</sup>

Save almost 3.5 hours and up to 150 steps

Using vSphere Lifecycle Manager with Quick Boot and Dell EMC OpenManage Integration for VMware vCenter Server® vs. manual

Save up to 10 hours of admin time per 500 service ticket events with ServiceNow® integration<sup>3</sup>

No time and steps vs. over a minute and up to 21 steps per event

Using Dell EMC OpenManage Integration with ServiceNow vs. manual

Configure a new server in under a minute with Ansible® integration<sup>4</sup>

Save almost 2 minutes and up to 33 steps

Using Dell EMC OpenManage Ansible modules vs. manual

2017

## Avoid human error and minimize downtime

Dell EMC introduced intelligent automation in the all-new OpenManage Enterprise console for a unified system management experience.<sup>5</sup> We found the OpenManage Mobile smartphone app and iDRAC Quick Sync 2 technology enabled admins to work from anywhere, spend less time on routine tasks, and troubleshoot 14G PowerEdge server issues faster vs. manual methods.<sup>6</sup>

Set up an IP address and network settings

Save over 3.5 minutes and up to 145 steps

Using Dell EMC OpenManage Mobile and Quick Sync 2 vs. LCD panel

Find and view server information

Save over a minute and up to 29 steps

Check system events and Lifecycle Controller logs

Save 11 seconds and up to 6 steps

We also determined that the OpenManage Essentials profile mobility feature could quickly replicate an established profile onto a standby server—minimizing outages due to failure or extended maintenance.<sup>7</sup>

Migrate to standby hardware in under a minute instead of almost 10 minutes

Using Dell EMC OpenManage Essentials vs. manual

2014

## Reduce server management time

Dell™ rolled out Dell OpenManage Suite and iDRAC8 on Dell 13G PowerEdge servers.<sup>8</sup> We demonstrated that using the one-to-many deployment, improved connectivity, automated maintenance, and zero-touch firmware updating available on the new servers could save admin time and improve a company's bottom line.<sup>9</sup>

Save up to 785 hours of admin time over two years\*\*

\*\*in a data center with 200 13G servers managed with OpenManage tools vs. a data center with 200 legacy servers managed manually

2013

## Provide greater levels of service with finite power resources

In our tests, Dell OpenManage Power Management software not only simplified power management, but it also reduced server power density by 40 percent and retained 99 percent performance. Plus, it delivered 220.4 percent longer emergency power time.<sup>10</sup>

2009

## Install operating systems and apps manually

When we first started evaluating Dell PowerEdge servers, installing a Microsoft Windows Server 2003 operating system and four common server apps on a single Dell PowerEdge 2950 server took our skilled technician almost four hours.<sup>11</sup>

1 Principled Technologies, "Boost data center productivity with OpenManage Enterprise," accessed January 26, 2021, <https://www.principledtechnologies.com/Dell/OpenManage-Enterprise-report-0620.pdf>.

2 Principled Technologies, "New VMware vSphere 7.0 features reduced the time and complexity of routine update and hardware compliance tasks," accessed January 26, 2021, <https://www.principledtechnologies.com/Dell/vSphere-7.0-update-compatibility-check-summary-0820.pdf>.

3 Principled Technologies, "Give administrators time back with Dell EMC OpenManage Enterprise integrations," accessed January 26, 2021, <https://www.principledtechnologies.com/Dell/OpenManage-integrations-vs-manual-1019-v2.pdf>.

4 Principled Technologies, "Give administrators time back with Dell EMC OpenManage Enterprise integrations."

5 Dell, "Dell EMC Drives IT Transformation with the New 14th Generation of PowerEdge Servers," accessed January 26, 2021, <https://corporate.delltechnologies.com/en-us/newsroom/announcements/2017/05/20170508-02.htm>.

6 Principled Technologies, "Save server management time and effort for IT staff," accessed January 26, 2021, [https://www.principledtechnologies.com/Dell/Quick\\_Sync\\_2\\_OpenManage\\_Mobile\\_0717.pdf](https://www.principledtechnologies.com/Dell/Quick_Sync_2_OpenManage_Mobile_0717.pdf).

7 Principled Technologies, "Save hands-on IT administrator time using the Dell EMC OpenManage Essentials profile mobility feature," accessed January 26, 2021, [https://www.principledtechnologies.com/Dell/OME\\_profile\\_mobility\\_0218.pdf](https://www.principledtechnologies.com/Dell/OME_profile_mobility_0218.pdf).

8 BusinessWire, "Dell Introduces Its Most Advanced Server Portfolio to Address Broadest Range of Business Computing Needs," accessed January 26, 2021, <https://www.businesswire.com/news/home/20140908006136/en/Dell-Introduces-Its-Most-Advanced-Server-Portfolio-to-Address-Broadest-Range-of-Business-Computing-Needs>.

9 Principled Technologies, "Systems management savings with Dell OpenManage on 13G Dell PowerEdge servers," accessed January 26, 2021, [https://www.principledtechnologies.com/Dell/13G\\_systemsmgmt\\_savings\\_1114.pdf](https://www.principledtechnologies.com/Dell/13G_systemsmgmt_savings_1114.pdf).

10 Principled Technologies, "Robust, free power management: Dell OpenManage Power Center," accessed January 26, 2021, [https://www.principledtechnologies.com/Dell/OpenManage\\_Power\\_Center\\_1113.pdf](https://www.principledtechnologies.com/Dell/OpenManage_Power_Center_1113.pdf).

11 Principled Technologies, "Dell manual server installation time," accessed January 26, 2021, <https://www.principledtechnologies.com/Dell/DellServerInstall0309.pdf>.

Find all of our Dell Technologies test results here:  
<http://facts.pt/PTportfolio-Dell>