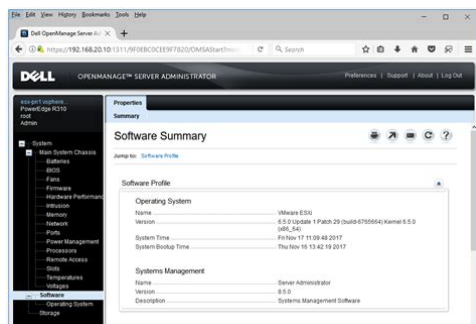


Dell Openmanage Server Administrator 6.5 Manual



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Book Descriptions:

Dell Openmanage Server Administrator 6.5 Manual

No power, no POST, no video or no boot. Watch this video to learn how to diagnose the problem. No power, no POST, no video or no boot. Watch this video to learn how to diagnose the problem. No power, no POST, no video or no boot. Watch this video to learn how to diagnose the problem. No power, no POST, no video or no boot. Watch this video to learn how to diagnose the problem. These are now part of my testing environment and although not exactly cuttingedge technology, they do the job just fine. Incidentally, these servers are an excellent choice for a home lab as you can find them dirt cheap especially on eBay. No issues whatsoever. I used this custom Dell ESXi ISO image to mitigate against missing drivers and I now have both servers running in a cluster. Note that the R310 is not supported by VMware for 6.5 use. This means you lose support should you require it. You can read my How to use VMware compatibility tools post to learn on how to rule out hardware and software compatibility issues. These tools will help you to better manage your Dellbased server and network infrastructure. The one product I'll be covering today is Dell OpenManage Server Administrator, OMSA for short. The first step is to install a VIB on ESXi which reports back to a free OMSA Web Server component installed separately on a Windows server. Optionally, you can also install the OpenManage Integration for VMware vCenter appliance on vCenter Server which gives you access to features other than what's available via the Web Server. The Integration appliance can be evaluated, fully, for a 90day period up to 5 hosts. You'll find that there's a corresponding version for every ESXi release. In my case, I selected 8.5 since I'm deploying it to ESXi 6.5. The latter is the preferred option when you have a sizable amount of hosts to patch, or deploy VIBs to. If ESXi is vCenter managed, use the vSphere Web client or the HTML5 vSphere client instead. For standalone instances, use the embedded host client.<http://herosporthn.com/userfiles/inglis-sound-block-ii-dishwasher-manual.xml>

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Alternatively, use an SCP client to transfer the VIB file to the host. Substitute datastore with the name of the datastore to which the OMSA VIB has been uploaded. The host will reboot once it's done installing. To do this, we first need to add the Dell patch repository link to the list of download sources. First, using the vSphere Web client, click on the Update Manager icon on the Home screen and click again on the vCenter Server name. In the Source URL field type. The Description is optional. Press OK. You should see several versions of the OpenManage VIBs listed as shown next. Select the Host Extension option for the baseline type. Press Next. Since I'm deploying to ESXi 6.5, I selected Open Manage 8.5.0 for ESXi650 as shown. Press Next, and Finish on the subsequent dialog screen, to complete the baseline creation process. On the next dialog box, select the previously created host baseline 5 and click OK. To install the VIB, click on the Remediate button. The patches that need applying are marked with a redcross icon In this case, we select Extension Baselines and tick the checkbox next to Dell Software, the host baseline we created earlier. Press Next to continue. Press Next. In this example, there's just one to choose from which is automatically selected for you. Press Next. You can also suppress warnings related to unsupported hardware and configurations. Press Next. These include the option to disconnect media devices from virtual machines such as mounted ISOs, which may prevent ESXi from entering maintenance mode. It's best to leave the settings to their default. Press Next. Optionally, clicking on the Precheck Remediation allows you to

analyze the effects of the remediation task. The host will enter maintenance mode after a short while. It will then reboot when the OMSA VIB finishes installing. Once the host is back online, it will exit maintenance mode when the remediation task completes. <http://www.recykla-glas.cz/media/images/upload/inglis-self-clean-oven-manual.xml>

Both components will enable you to connect and manage the Dell Server hosting your ESXi instance. Here's a taster of what's next. If so, please let me know how you got on. If you've experienced any problems with the steps above, I'm here to help out. I'm here to help you! Prior to joining Altaro as a blog writer and QA tester, I was employed as an infrastructure engineer at a cloud services provider working exclusively with VMware products. The Altaro VMware blog enables me to share the experience and knowledge gained and, much to my surprise, is what got me the vExpert 2017 award. Besides being a techie and a science buff, I like to travel and play guitars. I also do some photography and love having a go at playing the occasional XBOX game, Halo being my absolute favourite. I am also a proud father of two and parent to a crazy Dachshund called Larry. If you run an install, it will likely just say that it needs to be updated though. Events for Which You Can Page 142 and 143 Commands for Clearing Logs NOTE For Page 144 and 145 Table 424. Parameters for Alert Ac Page 146 and 147 Table 425. Thank you, for helping us keep this platform clean. The editors will have a look at it as soon as possible. CAUTION A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed. Information in this publication is subject to change without notice Dell Inc. All rights reserved. Reproduction of these materials in any manner whatsoever without the written permission of Dell Inc. Trademarks used in this text Dell, PowerEdge, and OpenManage are trademarks of Dell Inc. SUSE is a registered trademark of Novell Inc. Red Hat and Red Hat Enterprise Linux are registered trademarks of Red Hat, Inc. Intel, Pentium, and Itanium are registered trademarks and Intel386 is a trademark of Intel Corporation in the United States and other countries. AMD, AMD Opteron, AMDV, and AMD PowerNow.

Citrix, Xen, XenServer and XenMotion are either registered trademarks or trademarks of Citrix Systems, Inc. Other trademarks and trade names may be used in this publication to refer to either the entities claiming the marks and names or their products. Dell Inc. disclaims any proprietary interest in trademarks and trade names other than its own Server Administrator is designed for system administrators to manage systems locally and remotely on a network. It allows system administrators to focus on managing their entire network by providing comprehensive onetoone systems management. In the context of Server Administrator, a system refers to a standalone system, a system with attached network storage units in a separate chassis, or a modular system consisting of one or more server modules in a modular enclosure. Server Administrator provides easyto use management and administration of local and remote systems through a comprehensive set of integrated management services. Server Administrator is the sole installation on the system being managed and is accessible both locally and remotely from the Server Administrator home page. Remotely monitored systems may be accessed by dialin, LAN, or wireless connections. Configuration features allow Server Administrator to perform essential tasks described in detail in the following sections. This CLI guide documents all the commands that apply to Server Administrator and Storage Management. Introduction 15 At the component level, you can view information about voltage, temperature, fan s revolutions per minute RPM, memory functioning, and many other critical component details. You can see a detailed account of cost of ownership COO facts about your system in a summary view. You can retrieve version information for BIOS, firmware, operating system, and all installed software is easy to retrieve.

<http://www.drupalitalia.org/node/68450>

NOTE You can use the CLI instead of the Server Administrator home page, and turn the Server Administrator Web server off if you have encryption concerns. The CLI does not use the Web server. The Web server starts automatically after a reboot, so this command must be issued each time a

system starts up. NOTE After installing the Dell OpenManage Server Administrator, ensure that you log out and log in to reset the path to access Dell OpenManage CLI utilities. NOTE For information on terms used in this document, see the Glossary at support.dell.com. Whats New in Version 6.5 The release highlights of OpenManage Server Administrator 6.5 Added support for the following operating systems VMware ESX 4.0 U3 VMware ESX 4.1 U1 VMware ESXi 4.1 U1 VMware ESXi 4.0 U3 Citrix XenServer 5.6 FP1 Microsoft Windows Small Business Server 2011 Microsoft Windows 2008 R2 SP1 16 Introduction. Also, Server Administrator supports new team types for CNA cards. For more information on team types, refer to the online help. Added support for a new memory redundancy mode called Double Device Data Correction DDDC. To display this information, the minimum idrac version for Dell monolithic systems is 1.70 and for Dell modular systems is Added support for 32x32 GB Dual Inline Memory Module DIMM for Server Administrator to report the correct memory capacity. Supports Express Service Code for DirectAttached Storage. NOTE For the supported operating systems list, see the Dell Systems Software Support Matrix. NOTE CLI commands are not supported on systems with VMware ESXi operating system. Introduction 17 You can access the 32bit command prompt using one of the following methods Click Start Programs Accessories Command Prompt Click Start Run and type cmd.exe NOTE Do not type command into the Run dialog box to launch a command line window; this activates the MSDOS emulator command.com, which has environment variable limitations that can cause subtle problems with the CLI.

<http://henrikedmark.com/images/Craftsman-22304-Manual.pdf>

Primary CLI Commands The commands that carry out the functions of Server Administrator are omconfig omhelp omreport The omconfig command writes values that you assign to an objects properties. You can specify values for warning thresholds on components or prescribe what action your system is to take when a certain warning or failure event occurs. You can also use the omconfig command to assign specific values to your systems asset information parameters, such as the purchase price of the system, the systems asset tag, or the systems location. The omhelp command displays short text help for CLI commands. The shorthand equivalent of omhelp is the command for which you want help followed by . For example, to display help for the omreport command, type one of the following commands omhelp omreport omreport . The omreport command displays reports of the management information of your system. NOTE For an overall summary of CLI commands, type omhelp. Table 11 lists the primary CLI commands used by Server Administrator. This guide contains a section for each primary command. 18 Introduction. If you type a command and the command is executed successfully, a message displays, stating that your command has been successful. Success Messages When you type a successful omconfig command, data for that component displays. Change will take effect after the next reboot. Failure Messages CLI failure messages provide reasons why some commands do not succeed. Some common reasons why commands fail include syntax errors and components that are not present. Many error messages provide syntax information that you can use to execute the command successfully. If you try to execute a command for a component or feature not present in your system configuration, the error message states that the component is not present. Number with up to 3 digits after decimal point expected, read The value given by the command specifies more than 3 digits after the decimal point.

<https://www.hobbypcb.com/images/Craftsman-22304-Manual.pdf>

A valid minimum warning threshold value for volts contains up to 3 digits after the decimal point. Introduction 21 22 Scripting and Comparing With the CLI The Server Administrator CLI allows administrators to write batch programs or scripts to be executed by the operating system. For an enterprise with many systems, an administrator could write a configuration script that specified the warning thresholds for each major component of a system and also specified a set of actions that the administrator wants each system to take in case of a warning or failure event. In the most critical

cases, the administrator could write a script so that the system shuts down to prevent damage. The administrator could then distribute and execute the script to many managed systems at the same time. Such a scenario facilitates configuring any number of new systems acquired by a company and makes implementation of new system administration policies easier across many existing systems that require reconfiguration. A similar scenario could be used to populate a large number of newly acquired systems with detailed asset information. Much of the information would be the same, such as the manufacturer or lessor of the system, whether support for the system is outsourced, insurance company name of the system, method of depreciation, and so on. Any variable that is common to all systems could be scripted, sent to all managed systems, and executed. Asset information that is unique to a system could be scripted as a group and sent to that managed node for execution. For example, a script could specify values for all unique variables such as owner, primary user phone number, asset tag, and so on. Scripts to populate unique values would set all unique variables at once rather than one by one through the systems command line. In many cases, the CLI allows a user with a very well-defined task in mind to retrieve information about the system rapidly.

If a user wants to review a comprehensive summary of all system components and save that summary information to a file for comparison with later system states, the CLI is ideal. Using CLI commands, administrators can write batch programs or scripts to execute at specific times. When these programs execute, they can capture reports on components of interest, such as fan RPMs during periods of high system usage compared with the same measurements at times of lowest system usage. Command results can be routed to a file for later analysis. Reports can help administrators gain information that can be used to adjust usage patterns, to justify purchasing new system resources, or to focus on the health of a problem component.

22 Introduction 23 Command Syntax Overview

Commands vary in complexity. The simplest command has only command level 1. The `omhelp` command is a simple command. When you type `omhelp`, a list of the main CLI commands is displayed. The next level of complexity includes commands that contain command levels 1 and 2. All of the `about` commands are examples of command level 2 complexity. The `omconfig about` and `omreport about` commands cause a very brief summary to display. Most `omreport` commands are of this type. For example `omreport system alertaction` causes a list of alert actions that are configured for components on your system to be displayed. You can get help at several levels of detail. By appending `spacedashquestion mark` to any command, you can get help for that command. Example Help Commands

When you type `omconfig`, you get general help about the `omconfig` command. When you type `omconfig system assetinfo`, the help that displays provides information about assigning values for the name and option fields. Partial results for the request `omconfig system assetinfo`. You can retrieve summaries for many system components at one time, or you can get details about a specific component.

This chapter shows you how to get reports with the level of detail that you want. Commands documented in this chapter vary in whether they define the fields that appear in the results of a particular `omreport` command. Fields are defined only if they have a special or less familiar use. As with all other components, you can use `omreport` to view component status, and `omconfig` to manage a component. You can use `omreport` commands to get information you need to execute an `omconfig` command. For example, if you want to edit the minimum temperature for a warning event on a temperature probe, you need to know the index of the probe you want to configure. The symbol, often called pipe, is the logical exclusive or operator. For example, `enable disable` means that you can enable or disable the component or feature, but you cannot simultaneously enable and disable the component or feature.

Command Summary of the `omreport` Command

NOTE Although this chapter lists all possible `omreport` commands, the commands available on your system depend on your system configuration. The results of the `omreport` command vary from one system to another. Data displays for installed components only.

NOTE When a system includes an external chassis, the

displayed results vary by operating system. On SUSE Linux Enterprise Server and Red Hat Enterprise Linux systems, `omreport` commands display external chassis information in a separate section after the main chassis information. On Microsoft Windows systems, data about the external chassis does not appear in the `omreport` output. Table 32 is a highlevel summary of the `omreport` command. The column titled Command level 1 shows the `omreport` command at its most general. Command level 2 shows the major objects or components that you can view using `omreport` about, chassis, storage, and system. Command level 3 lists the specific objects and components for which you can view reports.

Use is a very general statement about the actions that can be performed using `omreport`. More details about syntax and use of the command appear later in this section. Table 32 displays the `omreport` commands available for `about`, `system`, and `main system chassis`. Use `biossetup A` Shows BIOS setup properties configured during system boot. It also displays the front panel encryption access information and the front panel LCD information. Use `omreport` to get help on the level 2 `about`, `chassis`, and `system` commands. The following information on `omreport system`. To see a list of valid commands for `omreport system`, type `omreport system`. Type `omreport modularencllosure` NOTE This CLI command is available when Dell OpenManage Server Administrator is installed on Dell modular systems. Server Administrator displays information related to the modular enclosure and chassis management controller CMC if available NOTE The output varies depending on the configuration of your system. Modular Chassis Information Chassis Information Attribute Model Value Modular Server Enclosure Attribute Lock Value true Attribute Service Tag Value 8RLNB1S Attribute Express Service Code Value CMC Information `omreport Viewing System Status 37 38` Attribute Product Value Chassis Management Controller CMC Attribute Description Value The system component provides a complete set of remote management functions for Dell systems. Attribute Version Value 3.20 Attribute IP Address Value Attribute IP Address Source Value Dynamic Source Attribute IP Address Type Value IPv4 Attribute Remote Connect Interface Value Launch CMC Web Interface `omreport about` Use the `omreport about` command to learn the product name and version number of the systems management application installed on your system. The following is an example output from the `omreport about` command Product nameDell OpenManage Server Administrator Version6.x.x CopyrightCopyright C Dell Inc. xxxxxxxx. All rights reserved.

The Contains field reports version numbers for the services as well as other useful details. Type `omreport chassis acswitch` or `omreport mainsystem acswitch` Server Administrator displays the following output AC Failover Switch AC Switch Redundancy Redundancy Status Full Number of devices2 required for full redundancy Redundancy Mode Redundancy Configuration Input Source Line 1, upon redundancy restoration, return to Line 1 AC Power Lines Status Ok Location AC Power Line 1 AC Present Power Present Active Source Active Status Ok 40 `omreport Viewing System Status 41` Location AC Power Line 2 AC Present Power Present Active Source Not Active Server Administrator reports values for the Redundancy Status and Redundancy Mode fields. Type `omreport chassis batteries` or `omreport mainsystem batteries` Server Administrator displays the summary of the battery information for your system. Type `omreport chassis bios` or `omreport mainsystem bios` Server Administrator displays the summary of the BIOS information for your system. Type `omreport chassis biossetup` or `omreport mainsystem biossetup` NOTE To maintain consistency across the commands, the output format of this command has changed. So, you may have to change the user scripts as applicable. Only those BIOS setup properties configured during system boot are displayed. Table 33. BIOS Setup Parameters Parameters Attribute Bootsequence Numlock Embedded Video Controller Boot Mode Processor C1E CPU Execute Disable Processor C State Control Processor CMP User accessible USB Ports CPU Virtualization Technology AC Power Recovery Mode Embedded SATA Controller Description Displays the device used to boot the system. Displays whether the keypad can be used as number keys. Displays whether the Embedded Video Controller option is enabled or disabled. Displays whether the boot mode is configured to BIOS or

Unified Extensible Firmware Interface UEFI. Displays the Processor C1E status.

Displays whether the Execute Disable XD option is enabled or disabled. Displays whether the Processor C State Control option is enabled or disabled. Displays the number of cores enabled per processor. Displays whether the user-accessible USB port is enabled or disabled. Displays the additional hardware capabilities provided by Virtualization Technology. Displays the system state when input power is restored after an outage. Displays whether the embedded SATA controller is set to ATA mode, RAID mode, or is disabled. Displays if TCM is on or off. Displays if TPM is off, on with preboot measurements, or on without preboot measurements. Displays if the internal USB is enabled or disabled. NOTE Server Administrator may not display the USB sequence number if there is only one USB port on the system. Displays whether the operating system watchdog timer is enabled or disabled. Displays the status of the probe filter chipset option. Displays whether the internal SD card is enabled or disabled. Displays whether the bezel removal intrusion check during system reboot is enabled or disabled. Displays if the BIOS screen is redirected over a particular serial port or if it is turned off. Displays whether the diskette is disabled, auto enabled, or readonly. Displays whether DBS is enabled or disabled on the system. Displays whether the embedded hypervisor is enabled or disabled. Displays whether the drive is enabled or disabled. Displays whether the device is automatically detected and enabled or if the device is disabled. Displays whether the intrusion check is enabled or disabled during system boot. Displays whether the mouse is enabled or disabled. Displays whether the optical drive controller is enabled or disabled. Displays whether the address is located on LPT1, LPT2, and LPT3, or if it is disabled. Displays the setting associated with the parallel port. Displays whether the device is on or off.

Displays whether RAID on motherboard is detected as a RAID device, a SCSI device, or if the device is disabled during system boot. Displays whether RAID on motherboard Channel A is detected as a RAID device or a SCSI device. Displays whether RAID on motherboard Channel B is detected as a RAID device or a SCSI device. Displays whether serial port 1 is mapped to a COM port, a COM port 1, a COM port 3, a COM1 BMC, a BMC Serial, a BMC NIC, a BMC RAC, or is disabled. Displays whether serial port 2 is mapped to a COM port, a COM port 2, a COM port 4, or is disabled. Displays whether the speaker is on or off. Displays whether the USB port is enabled or disabled. Displays whether the device is enabled or disabled. Serial Communications Displays whether COM port 1 and COM port 2 are off or on with or without console redirection. 44 omreport Viewing System Status 45 Table 33. BIOS Setup Parameters continued Parameters Console Redirection After Boot External Serial Connector Console Redirection Failsafe Baud Rate Serial Address Select Description Displays whether console redirection after system reboot is enabled or disabled. Displays whether the external serial connector is mapped to Serial Device 1, Serial Device 2, or a Remote Access Device. Displays the setting for console redirection failsafe baud rate. Displays port address for the serial devices. Type omreport chassis removableflashmedia or omreport mainsystem removableflashmedia Server Administrator displays a summary of your system's removable flash media information. NOTE If the vflash or SD card size is less than 1 GB, size is displayed in MB. CAUTION A CAUTION indicates Intel is a trademark Information Trademarks NEC EXPRESSBUILDER is trademarks of NEC Corporation. Chapter 1 Overview of RemoteControlService A Dell Technical White Paper CAUTION A CAUTION indicates either Copyright 2008 Dell Supported Operating Systems MegaRAID CLI.

Key Features Chapter 1 Overview This chapter explains an overview Chapter 1 Overview This chapter introduces HP Part Number 616896002 Published August 2011 Edition 1 Copyright Embedded MegaRAID Software Your feedback helps us optimize First Edition. Copyright 2003/2004 Areca When booting All rights reserved. SyAM Software User's Guide. www.dell.com support.dell.com It enables This Manual will help you to get started with setting up your notebook. For more detailed information, please visit our website at No license, express or implied, by estoppel

All rights reserved. Published in USA. Published Chapter 1 Overview of ServerView This tiny dynamo packs a wealth of enterprise level features including Intel Xeon processors, ECC memory, Features X550M2 Dell Engineering November April 2008 Using the Dell Remote Access Controller Copyright Quest Software, Inc. 2008. All rights reserved. This guide contains CAUTION A CAUTION indicates Introduction to the Dell DR4000 Restore Manager A primer for creating and using a Restore Manager USB flash drive User s Guide Setting items to incorrect values may cause your system to malfunction. Introducing BIOS Setup.2 To use this website, you must agree to our Privacy Policy, including cookie policy. Using OMSA you can perform proactive system monitoring, system diagnosis, troubleshoot hardware issues and configure RAID etc., You can also view and manage hardware's embedded system management ESM log using OMSA. This is an jumpstart guide that explains how to install Dell OMSA on Linux. I have also provided few screenshots of DELL OMSA web application. Installing the selected packages.Starting Systems Management Device Drivers. Starting Systems Management Data EnginePlease note that you can login only using HTTPS. To clear this false alarm, you have to clear the hardware's Embedded System Management ESM Log.I went thru these exact steps for my old faithful Dell PE1750 a few moments ago.

The installer failed with NO output and an error code 2 on CentOS 5.5. No more showing up with surprise amber flashing lights! I've been wanting to monitor the disks on our 2950 Dell servers running SuSE SLES 10 for some time. To get the software, I couldn't use the browser, but was able to use ftp going to and downloading the appropriate package for my server. Hope this will help someone in any possible way. Will have good answers. This utility prevents concurrent executions of srvadmininstall.sh which can lead to unexpected or invalid installation results. This script cannot continue with the installation. Select rpms from the OS folder in the media that closely matches this Operating System to continue with the manual install. Dont get the unsupported OS, but now get this Everything went fine. I am not able to access my system from the web console. I am getting connection error. Also I tried the below command on the system and error as follows. Click the button promising to be careful. My name is Ramesh Natarajan. I will be posting instruction guides, howto, troubleshooting tips and tricks on Linux, database, hardware, security and web. My focus is to write articles that will either teach you or help you resolve a problem. Read more about Ramesh Natarajan and the blog. Use this Contact Form to get in touch me with your comments, questions or suggestions about this site. You can also simply drop me a line to say hello.

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