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In PDF format, this guide explains how to log in to the system, provides information about accessing the NAS server/cluster CLI and the SMU CLI, and provides information about the documentation, help, and search capabilities available in the system.

### Document Revision Level

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<td>MK-92HNAS014-00</td>
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<td>First publication</td>
</tr>
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### Contacting Hitachi Data Systems

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Santa Clara, California 95050-2627  
U.S.A.  
https://portal.hds.com  
North America: 1-800-446-0744

### Related Documentation

**Release Notes** provide the most up-to-date information about the system, including new feature summaries, upgrade instructions, and fixed and known defects.
**Administration Guides**

- *System Access Guide* (MK-92HNAS014)—In PDF format, this guide explains how to log in to the system, provides information about accessing the NAS server/cluster CLI and the SMU CLI, and provides information about the documentation, help, and search capabilities available in the system.

- *Server and Cluster Administration Guide* (MK-92HNAS010)—In PDF format, this guide provides information about administering servers, clusters, and server farms. Includes information about licensing, name spaces, upgrading firmware, monitoring servers and clusters, the backing up and restoring configurations.

- *Storage System User Administration Guide* (MK-92HNAS013)—In PDF format, this guide explains user management, including the different types of system administrator, their roles, and how to create and manage these users.

- *Network Administration Guide* (MK-92HNAS008)—In PDF format, this guide provides information about the server's network usage, and explains how to configure network interfaces, IP addressing, name and directory services.

- *File Services Administration Guide* (MK-92HNAS006)—In PDF format, this guide explains about file system formats, and provides information about creating and managing file systems, and enabling and configuring file services (file service protocols).

- *Data Migrator Administration Guide* (MK-92HNAS005)—In PDF format, this guide provides information about the Data Migrator feature, including how to set up migration policies and schedules.

- *Storage Subsystem Administration Guide* (MK-92HNAS012)—In PDF format, this guide provides information about managing the supported storage subsystems (RAID arrays) attached to the server/cluster. Includes information about tiered storage, storage pools, system drives (SDs), SD groups, and other storage device related configuration and management features and functions.

- *Snapshot Administration Guide* (MK-92HNAS011)—In PDF format, this guide provides information about configuring the server to take and manage snapshots.

- *Replication and Disaster Recovery Administration Guide* (MK-92HNAS009)—In PDF format, this guide provides information about replicating data using file-based replication and object-based replication, provides information on setting up replication policies and schedules, and using replication features for disaster recovery purposes.

- *Antivirus Administration Guide* (MK-92HNAS004)—In PDF format, this guide describes the supported antivirus engines, provides information about how to enable them, and how to configure the system to use them.

- *Backup Administration Guide* (MK-92HNAS007)—In PDF format, this guide provides information about configuring the server to work with NDMP, and
making and managing NDMP backups. Also includes information about Hitachi NAS Synchronous Image Backup.

- **Command Line Reference**—Opens in a browser, and describes the commands used to administer the system.

**Note:** For a complete list of Hitachi NAS open source software copyrights and licenses, see the *System Access Guide*.

**Hardware References**
- **Hitachi NAS Platform 3080 and 3090 G1 Hardware Reference** (MK-92HNAS016)—Provides an overview of the second-generation server hardware, describes how to resolve any problems, and replace potentially faulty parts.
- **Hitachi NAS Platform 3080 and 3090 G2 Hardware Reference** (MK-92HNAS017)—Provides an overview of the second-generation server hardware, describes how to resolve any problems, and replace potentially faulty parts.
- **Hitachi NAS Platform Series 4000 Hardware Reference** (MK-92HNAS030) (MK-92HNAS030)—Provides an overview of the Hitachi NAS Platform Series 4000 server hardware, describes how to resolve any problems, and how to replace potentially faulty components.
- **Hitachi High-performance NAS Platform** (MK-99BA012-13)—Provides an overview of the NAS Platform 3100/NAS Platform 3200 server hardware, and describes how to resolve any problems, and replace potentially faulty parts.

**Best Practices**
- **Hitachi USP-V/VSP Best Practice Guide for HNAS Solutions** (MK-92HNAS025)—The HNAS practices outlined in this document describe how to configure the HNAS system to achieve the best results.
- **Hitachi Unified Storage VM Best Practices Guide for HNAS Solutions** (MK-92HNAS026)—The HNAS system is capable of heavily driving a storage array and disks. The HNAS practices outlined in this document describe how to configure the HNAS system to achieve the best results.
- **Hitachi NAS Platform Best Practices Guide for NFS with VMware vSphere** (MK-92HNAS028)—This document covers VMware best practices specific to HDS HNAS storage.
- **Hitachi NAS Platform Deduplication Best Practice** (MK-92HNAS031) —This document provides best practices and guidelines for using HNAS Deduplication.
- **Hitachi NAS Platform Best Practices for Tiered File Systems** (MK-92HNAS038) —This document describes the Hitachi NAS Platform feature that automatically and intelligently separates data and metadata onto different Tiers of storage called Tiered File Systems (TFS).
- **Hitachi NAS Platform Data Migrator to Cloud Best Practices Guide** (MK-92HNAS045)—Data Migrator to Cloud allows files hosted on the HNAS
server to be transparently migrated to cloud storage, providing the benefits associated with both local and cloud storage.

- **Brocade VDX 6730 Switch Configuration for use in an HNAS Cluster Configuration Guide** (MK-92HNAS046)—This document describes how to configure a Brocade VDX 6730 switch for use as an ISL (inter-switch link) or an ICC (inter-cluster communication) switch.

- **Best Practices for Hitachi NAS Universal Migrator** (MK-92HNAS047)—The Hitachi NAS Universal Migrator (UM) feature provides customers with a convenient and minimally disruptive method to migrate from their existing NAS system to the Hitachi NAS Platform. The practices and recommendations outlined in this document describe how to best use this feature.

- **Hitachi NAS Platform Storage Pool and HDP Best Practices** —This document details the best practices for configuring and using HNAS storage pools, related features, and Hitachi Dynamic Provisioning (HDP).
Hitachi NAS Platform overview

NAS Platforms are enterprise-class network storage servers that provide high-performance read/write access to data through multiple protocols, such as CIFS, NFS, iSCSI, and FTP. These systems support:

- Stand-alone servers, or clusters of up to eight nodes
- Tiered storage
- A single name space with global access
- Virtualized storage pools, servers, file systems, and volumes
- Read caching
- Global symlinks
- Data protection through NVRAM mirroring, snapshots, NDMP-based backup, virus scanner integration, automatic data migration, policy-based data replication, data relocation (with transfer of primary access), and quorum devices
- User, group, and virtual volume (directory) quotas
- Complete tools for managing the system and monitoring system status, including Web Manager (a browser-based graphical user interface), a Java-based client for gathering real-time statistics, and a command line interface.

The file server can also acquire Fibre Channel information and publish the detail to the Hitachi Device Manager (HDvM) server. This integration allows the Hitachi Tiered Storage Manager (HTSM) to view information about Fibre Channel devices attached to a server or cluster by searching for that information on the Hitachi Device Manager.

- [ ] Default user name and password
- [ ] Managing a server or cluster
- [ ] Using Web Manager
- [ ] Server Status Console
- [ ] Using Web Manager tables
- Accessing and navigating Web Manager pages
- Using the command line interface
- Accessing the SMU command line interface
- Accessing the server/cluster command line reference
Default user name and password

The following table provides the default system logins:

<table>
<thead>
<tr>
<th>System component</th>
<th>User name</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMU Web Manager</td>
<td>admin</td>
<td>nasadmin</td>
</tr>
<tr>
<td>SMU CLI</td>
<td>manager</td>
<td>nasadmin</td>
</tr>
<tr>
<td>SMU (entering this specific user name and password will provide unlimited access on the SMU)</td>
<td>root</td>
<td>nasadmin</td>
</tr>
<tr>
<td>Storage server CLI</td>
<td>supervisor</td>
<td>supervisor</td>
</tr>
</tbody>
</table>

Managing a server or cluster

Server/cluster management is performed through Web Manager (a browser-based graphical user interface) or through commands issued using a command line interface (CLI). Most management functions can be accomplished through Web Manager, but some operations require using the CLI. The following sections describe these management interfaces in detail.

Using Web Manager

The Web Manager administration tool provides a browser-based interface for managing standalone or clustered servers and their attached storage subsystems. This tool allows you to perform most administrative tasks, from any client on the network using a network browser.

**Note:** When accessing the SMU through Web Manager, some browsers might fail with an error message of "Secure Connection Failed" due to an invalid security certificate. This situation might occur the first time you access a new SMU, or when the SMU’s IP address or host name have been changed. If you receive this error message, you must add the SMU’s security certificate. Refer to the browser’s help to find information on how to add a certificate, and make sure to permanently store the exception. As an alternative to the Web Manager, you can use the command line interface (CLI). For more information, see Using the command line interface on page 19. The CLI is documented in the man pages and the Command Line Reference, which is available through a link on the Web Manager Documentation page.
Browser support

Use one of the following browsers to run Web Manager, the system management unit (SMU) web-based graphical user interface (GUI):

- Microsoft Internet Explorer: version 8.0 or later.
- Mozilla Firefox: version 18.0 or later.

Note: The SMU uses cookies and sessions to remember user selections on various pages. Therefore, open only one web browser window or tab to the SMU per workstation or computer. If multiple tabs or windows are opened from the same workstation or computer, any changes made in one tab or window might unexpectedly affect the other tabs or windows.

Java requirements

Oracle Java Runtime Environment (JRE) version 1.6 or newer is required to enable some advanced Web Manager functionality.

Server Status Console

The Home page in the Web Manager’s console displays summary status information pertaining to the currently managed server:
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1    | Currently managed server or cluster name and IP address.  
Use the drop-down list (of managed servers/clusters) to select another server or cluster to manage. |
| 2    | Summary status indicator for the currently managed server or cluster:  
- **Green**—Operating normally (not showing an alert condition).  
- **Amber**—Warning condition (operating normally, but action should be taken to maintain normal operation).  
- **Red**—Critical condition (not functioning or failing in a way that presents a danger to the system). |
| 3    | File System Nearest Capacity  
The color of the status indicator color provides information about how close the file system is to its maximum configured size limit.  
- **Green**—Usage is below the Warning threshold.  
- **Yellow**—Usage has reached or exceeded the Warning threshold, but is below the Critical threshold.  
- **Orange**—Usage has reached or exceeded the Critical threshold.  
The percentage of allocated space used by the file system nearest to full capacity is displayed next to the status indicator.  
Click View to display the **File Systems** page, where you can find out more about the file systems on the server or cluster. |
| 4    | Current Data Throughput  
Displays the current data throughput from the data network and Fibre Channel ports, both received (Rx) and transmitted (Tx). Throughput values are updated every 10 seconds. |
| 5    | Warning events recorded in the event log during the past 24 hours.  
Click the yellow indicator to display the event log, showing all warning events recorded in the event log. |
| 6    | Severe events recorded in the event log during the past 24 hours.  
Click the orange indicator to display the event log, showing all severe events recorded in the event log. |

**Using Web Manager tables**

Some of the pages in the Web Manager interface uses tables to present system information:
<table>
<thead>
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<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Filter displays any filtering in use for the table being displayed. To enable or change filtering, click filter.</td>
</tr>
<tr>
<td>2</td>
<td>Column labels</td>
</tr>
<tr>
<td>3</td>
<td>Show X Items per page</td>
</tr>
</tbody>
</table>

### About Filtering

When you have a large number of items in a table, filtering allows you to specify criteria to limit the display of the items in the table to only those items matching the specified criteria. By default, filtering is disabled, but you can enable it by clicking filter.

The criteria used to filter items in the table depend on the items listed in the table. For example, when you click filter on the **File Systems** page, the file system filter dialog appears:

![Filter Dialog](image)

You can filter by file system name, storage pool containing the file system, file system status, or file systems on a particular EVS.
When you click filter on the **System Drives** page, the system drives filter dialog appears:

![System Drives Filter Dialog](image)

You can filter by SD access enabled or disabled, SD status, if the SD has mirrors, and several other criteria.

To change the filtering criteria, click reset, specify the new criteria to be used to filter the table items, then click OK.

To remove filtering, click reset, then click OK.

### Accessing and navigating Web Manager pages

The Web Manager uses a two-level page structure, including links to specific functions and categories that wrap those functions. Clicking a link starts its target function, while clicking a category loads a page.

The top-level page is the Web Manager **Home** page:

![Web Manager Home Page](image)

This page groups functions associated with the currently managed server under page categories, including:

• **Server Settings**: EVS Management, Server/Cluster Configuration and Settings, Maintenance Tasks, Management Access and Statistics, and so on.

• **Storage Management**: File Systems, System Drives, Storage Pools, RAID Racks, Virtual Volumes, Quotas, Data Migration, and so on.

• **Data Protection**: Virus Scanning, Object and File Replication, Snapshots, File System Versions and Recovery, NDMP backup, and so on.

• **File Services**: CNS, NFS Exports, CIFS Shares, iSCSI, FTP, User Mapping, Group Mapping, and so on.

• **Network Configuration**: IP Addresses, Name Services, NIS/LDAP Configuration, IP Routes, Link Aggregation, Network Statistics, and so on.

Additional categories (not associated with the currently managed server):

• **SMU Administration**: Manages the SMU itself (for example, currently managed server selection, date and time, security, private management network).

• **Documentation**: Links to documentation, including the online help.

---

**Using the command line interface**

The storage server and the system management unit (SMU) each come with a command line interface (CLI) for configuration and management. Both support secure connections, configurable passwords, and other security mechanisms.

---

⚠️ **Note**: For more information on the CLI, see the man pages, or the *Command Line Reference* that is accessible through the *Documentation* page of Web Manager.

---

**Accessing the SMU command line interface**

Use one of the following methods to access the SMU command line interface:

- Serial (console) port.
- SSH connection.

⚠️ **Warning**: The SMU and NAS Platform are appliances, not plain Linux servers and their configurations are programmatically controlled. If their configuration files are manually changed outside of the provided/supported commands, the impact of such changes cannot be predicted and might therefore destabilize the system. Do not, for any reason, manually edit
Using the serial (console) port

The SMU ships without a preconfigured network setup. To perform the initial setup, access the SMU through a direct serial connection or KVM. Once its network configuration has been completed, access the SMU’s CLI directly through SSH or through a Java-enabled SSH session running under Web Manager.

To connect using a serial console:

Procedure

1. Attach an RS232 null-modem cable (DB-9 Female to DB-9 Female) to the serial port on the SMU back panel. Attach the other end of the serial cable to a terminal (for instance, a laptop).
2. Start a console session using your terminal emulation with the following settings:
   - 115,200 b/s
   - 8 data bits
   - 1 stop bit
   - No parity
   - VT100 emulation
   - No flow control

   You may want to enable the logging feature in your terminal program to capture the session.
3. Log in as the user manager. When prompted, enter the password for the user manager.
4. Once connected, launch the storage server CLI or select SMU shell. From the SMU command line, access the server CLI using one of the methods in the displayed menu, or enter q to access the SMU shell.

Using an SSH connection

The SMU can be accessed using any SSH client. Note that the client should be configured to support the UTF-8 (Unicode) character encoding.

For Windows and others without an SSH client, access the SMU using SSHTerm. SSHTerm is a Java SSH client (applet) developed by 3SP and distributed under the General Public License (GPL). SSHTerm provides a convenient, cross-platform alternative to other SSH clients.

To connect using SSHTerm:
Procedure

1. Verify Java version and status.
   SSHTerm requires Java 1.4.x or greater. Go to [http://www.java.com](http://www.java.com) to verify that your browser has the latest version of the Java plug-in installed and enabled.

2. Navigate Home > SMU Administration > SSHTerm > Launch SSHTerm to launch SSHTerm.
   When the SSH client applet window pops up, accept the certificate registered to 3SP LTD, and click Always or Yes when asked to allow the host.

3. When prompted, enter the password for the user “manager”.
   SSHTerm automatically connects to the SMU as user "manager".

4. Multiple SSHTerm windows can be used at once; click Launch SSHTerm for each new SSH session.

5. When the SSH session has finished, close the window to terminate the session.

Accessing the server/cluster command line reference

The storage server ships with a comprehensive CLI, documented in the online man pages and the Command Line Reference. You can access the server/cluster CLI through the Server Control (SSC) utility, available for Windows and Linux.

Access the CLI in the following ways:
- Secure Shell (SSH) connection into the server through the SMU.
- SSH or Telnet connection directly into the server.
- Server Control (SSC) utility, available for Windows and Linux.

Note: To access the file server CLI directly, using SSH, telnet, or SSC, through the public network, a server administration IP address may be assigned to at least one of the gigabit Ethernet interfaces. The server supports access to its CLI through any administrative IP address; by default, an administrative IP address is available on the private management network.

Note: When using the server CLI, the console device should be configured to use UTF-8 (Unicode) encoding. When using the CLI through SSH, telnet, or SSC, the server sends and expects to receive data using UTF-8 encoding, so the device sending data to or receiving data from the server should be configured to use UTF-8 encoding.

Note: A system administrators can query the LDAP server for information about hosts configured into netgroups. You may discover whether a host is in a specific netgroup hierarchy or not, as well as all of the netgroups to which a host belongs. The nis-is-host-in-netgroup and nis-netgroups-for-host
commands are used to check whether a host is a member of a specified netgroup, or to determine the set of netgroups to which a host belongs.

**Using SSH using the SMU**

The SMU supports SSH. After logging into the SMU, the SMU can redirect connections directly to the server CLI. This can be useful for two reasons:

- It eliminates the need to assign a server administration IP address to the gigabit interface of the server.
- It enhances the security of the server by isolating administrative access to the private management network.

To SSH into the server, using the SMU as a proxy:

**Procedure**

1. Connect to the SMU through SSH.
2. Log in to the SMU as manager.
3. Select the targeted server from the list that is displayed. The SMU automatically initiates a connection to the server CLI.
4. When prompted, enter the user name `supervisor` and the password for the “supervisor” user account.

**Using SSH or telnet**

When connecting to a NAS Platform Series 2000 or NAS Platform Series 3000 server/cluster through SSH or telnet through the administrative services EVS IP address, log in using the user name `supervisor`. NAS Platform 3080 or NAS Platform 3090 servers/clusters do not support SSH or telnet connections. Note that the administrator must have configured the server to accept SSH or telnet connections, and the SSH/telnet client should be configured to support UTF-8 (Unicode) character encoding.

**To SSH into the server**

**Procedure**

1. Connect to the server’s administrative services DNS name or IP address: `ssh supervisor@server_name_or_IP`
2. When prompted, enter the "supervisor" user's password.

**To telnet into the server**

**Procedure**

1. Connect to the server’s administrative name or IP address: `telnet server_name_or_IP`
2. When prompted, enter the "supervisor" user's password.
Using SSC

The server can connect to the SMU from Windows PCs and from Linux/Unix workstations using SSC, which provides a secure connection using a modified version of the Arctfour cipher for encryption and Sha-1 for authentication.

Use the SSC scripting utility to access the server CLI. The server supports SSC access to its CLI through any administrative IP address. By default, the private management network has an administrative IP address available.

The syntax for SSC: `ssc -u user_name -p password host[:port] [command]`

The following table defines the variables:

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>user_name</td>
<td>User account (typically &quot;supervisor&quot;).</td>
</tr>
<tr>
<td>password</td>
<td>Password. If none specified, SSC prompts for one.</td>
</tr>
<tr>
<td>timeout</td>
<td>A timeout (in seconds) for a single-use command.</td>
</tr>
<tr>
<td>EVS</td>
<td>Specifies a particular EVS (by its numerical EVS ID) as the target for a single-use command.</td>
</tr>
<tr>
<td>host</td>
<td>The server's administration IP address or host name.</td>
</tr>
<tr>
<td>port</td>
<td>If the SSC port number has been changed from its default of 206, the port number configured for SSC must be specified in the command syntax.</td>
</tr>
<tr>
<td>command</td>
<td>Command to execute. If no command is specified, SSC allows interactive command entry.</td>
</tr>
</tbody>
</table>
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http://web.mit.edu/kerberos/krb5-1.12/krb5-1.12.1.html
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C Library Memset

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Perl module Net::SSH2

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Hitachi NAS Platform System Access Administration Guide
udev /dev/ and hotplug management daemon

This is the Debian GNU/Linux prepackaged version of udev.

It has been packaged by Marco d'Itri <md@linux.it>.

Original sources were obtained from:
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Version 2.1, February 1999

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