

**EVIDEN**

BullSequana EX

# Getting Started Guide

The following copyright notice protects this book under Copyright laws which prohibit such actions as, but not limited to, copying, distributing, modifying, and making derivative works.

Copyright ©Bull SAS 2024, part of Eviden group. Eviden is a registered trademark of Eviden SAS. This document, or any part of it, may not be reproduced, copied, circulated and/or distributed nor quoted without prior written approval from Bull SAS.

## **Trademarks and Acknowledgements**

We acknowledge the right of proprietors of trademarks mentioned in this manual.

All brand names and software and hardware product names are subject to trademark and/or patent protection.

Quoting of brand and product names is for information purposes only and does not represent trademark and/or patent misuse.

### **Hardware**

**April 2024**

**Eviden  
30 bis rue du Nid de Pie  
49000 Angers  
FRANCE**

The information in this document is subject to change without notice. Eviden will not be liable for errors contained herein, or for incidental or consequential damages in connection with the use of this material.

---

# Table of Contents

<b>Table of Contents</b> .....	<b>i</b>
<b>Preface</b> .....	<b>p-1</b>
Intended Readers .....	p-1
<b>Chapter 1. Connecting a BullSequana EX server</b> .....	<b>1-1</b>
1.1. Connecting the server to the power supply .....	1-1
1.2. Accessing the Server Hardware Console (SHC) .....	1-4
1.2.1. Obtaining an address via a DHCP server .....	1-4
1.2.2. Obtaining an IP address with an auto-discovery tool .....	1-6
1.2.3. Connecting to the SHC for the first time .....	1-9
1.3. Connecting the server to a monitor (optional) .....	1-10
<b>Chapter 2. Configuring general parameters</b> .....	<b>2-1</b>
2.1. Setting the date and time .....	2-2
2.2. Configuring network settings .....	2-4
2.3. Changing the initial user password .....	2-6
2.4. Testing parameters .....	2-8
<b>Chapter 3. Installing an operating system</b> .....	<b>3-1</b>
3.1. Installing an OS .....	3-2
3.2. Booting the operating system (OS) .....	3-7
<b>Chapter 4. Power operations</b> .....	<b>4-1</b>
4.1. Powering on the server with the power button .....	4-2
4.2. Powering on from the SHC .....	4-4
4.3. Powering off the server with the power button .....	4-5
4.4. Rebooting or shutting down from the SHC .....	4-7
4.5. Configuring the power restore policy .....	4-8
4.6. Managing power usage .....	4-9
<b>Chapter 5. Maintenance operations</b> .....	<b>5-1</b>
5.1. Rebooting the BMC .....	5-1
5.2. Checking event logs .....	5-2
5.3. Checking the sensors .....	5-3
5.4. Collecting Logs .....	5-4
5.5. Managing firmware versions .....	5-6



---

## Preface

This guide explains how to set up the server.

---

**See** The Bull support web site for the most up to date product information, documentation, firmware updates, software fixes and service offers:  
<https://support.bull.com>

---

---

**Important** **ATTENTION: Please read carefully the safety instructions before you perform the procedures described in this manual.**  
*Multilingual Safety Notices Guide*

---

---

## Intended Readers

This guide is intended for use by system administrators and operators.



---

# Chapter 1. Connecting a BullSequana EX server

---

**Important** The steps in this chapter must be followed in the order indicated.

---

**See** The Installation Guide and the documentation set for more information.

---

---

## 1.1. Connecting the server to the power supply

### 1. Connect the server to the power supply

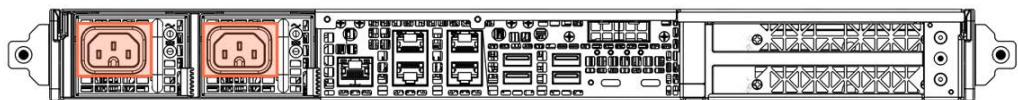
---

**Important** The site power breaker must be OFF when the server is connected to the power supply. The site power supply must remain OFF until the system is ready to be powered on.

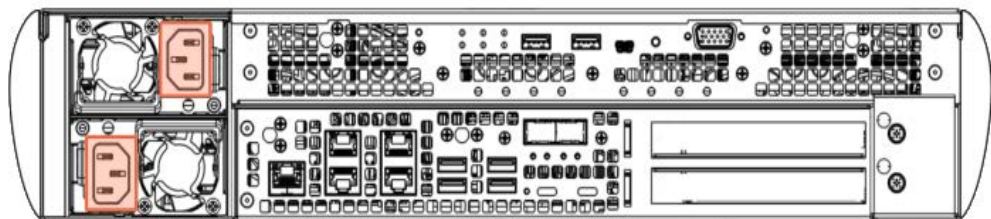
---

1. Locate the power supply connection.

#### BullSequana EXR



#### BullSequana EXD



2. Connect the server to the Power Distribution Unit (PDU).

Plug the power cable into power socket and the required PDU.

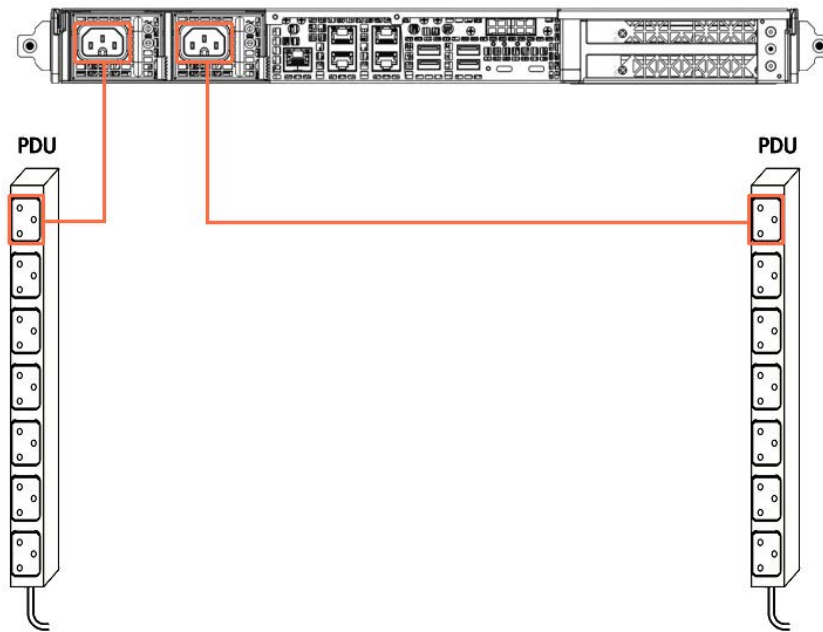
---

**Note** If the server is installed in a rack cabinet, route the power cable along the cabinet flange to the PDU.

---

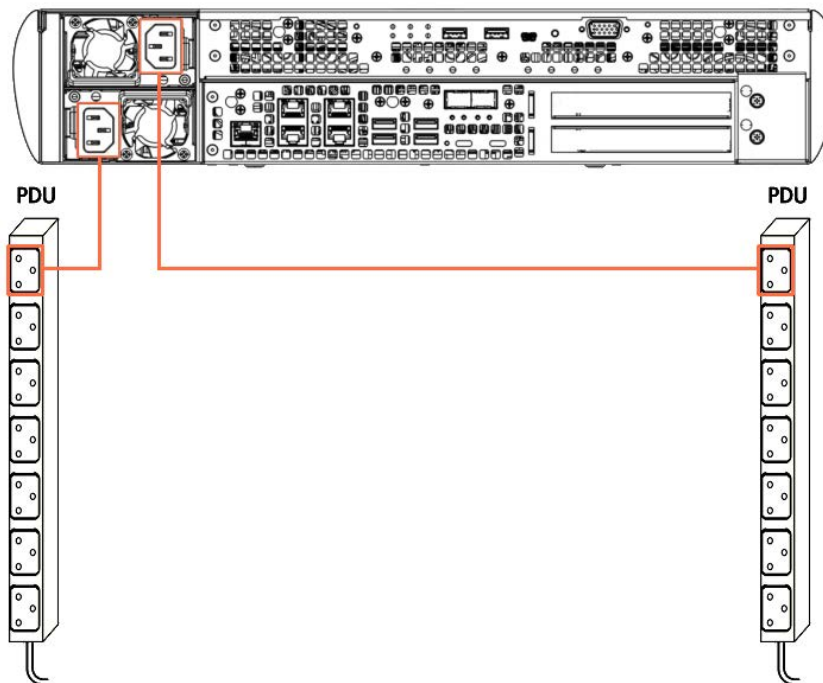
## BullSequana EXR

 Rear view



## BullSequana EXD

 Rear view





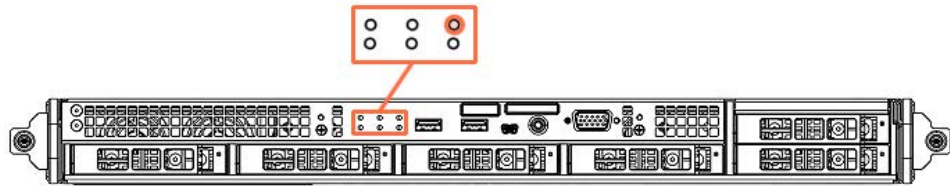
## 2. Power on the server to standby

1. Turn the site power breakers ON.
2. Check that the power status LED blinks green to indicate that the server is connected to the power supply.

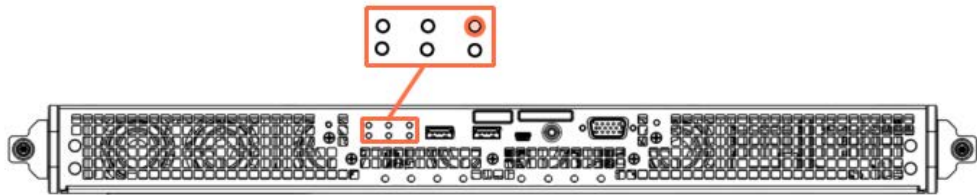
### BullSequana EXR



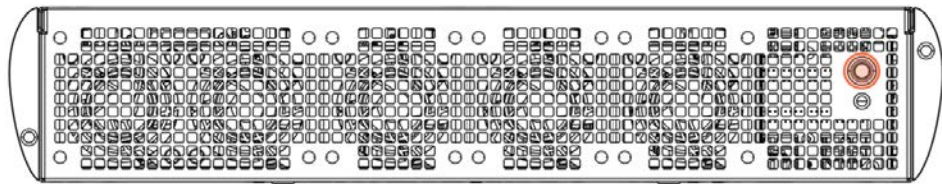
#### 2.5 inch SATA disk option



#### M.2 NVMe disk option



### BullSequana EXD



---

## 1.2. Accessing the Server Hardware Console (SHC)

The Server Hardware Console (SHC) for BullSequana EX servers provides a web based interface to manage, configure and monitor the server.

The SHC is powered by OpenBMC, an open source implementation of the Baseboard Management Controller (BMC) firmware stack

---

**See** The SHC Reference Guide and the documentation set for more information.

---

The first connection to the SHC can be made using either an IP address allocated by DHCP or an auto-discovery tool.

### 1.2.1. Obtaining an address via a DHCP server

#### Prerequisites

- A DHCP server is installed on the network subnet
- The laptop used to access the BullSequana EX server is on the same network subnet

#### Procedure

##### 1. Connect the server to the LAN

Connect the server BMC port to the LAN via a RJ45 Ethernet cable.

---

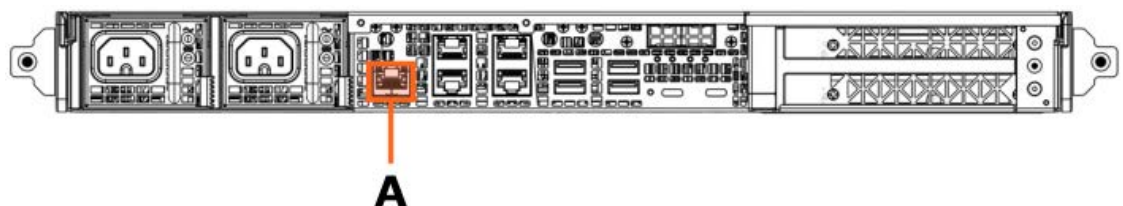
**Important** If a switch is used the ports must support a bandwidth of 1 Gb/s.

---

#### BullSequana EXR

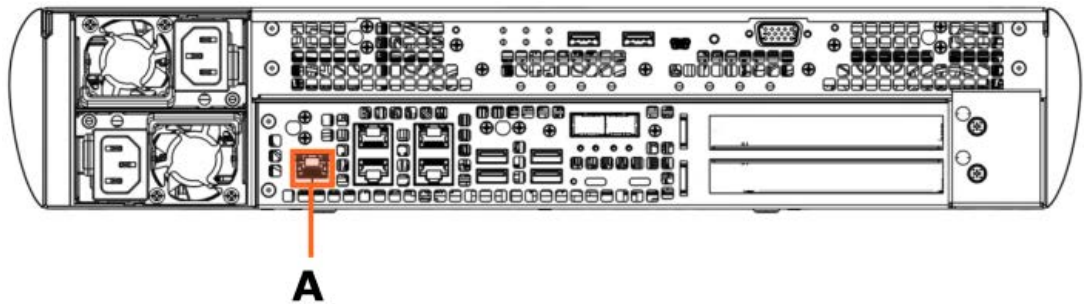


Rear view



## BullSequana EXD

### Rear view



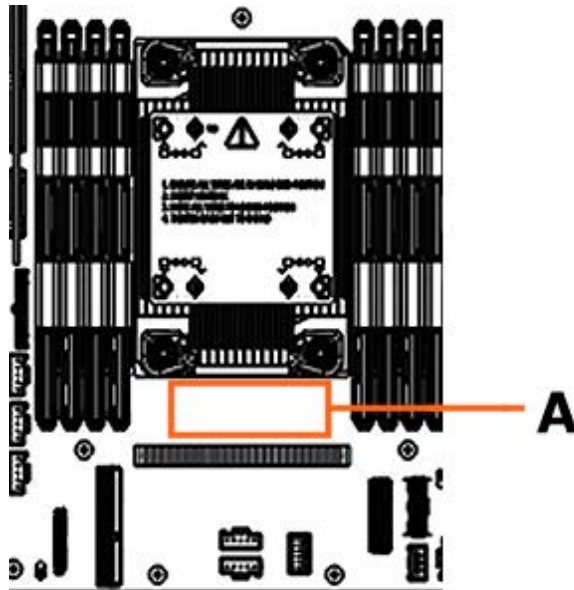
### 2. Check the LAN connection

Check the LEDs are on for the BMC port.

### 3. Obtain the MAC address for the server

1. Locate the label displaying the server MAC address on the motherboard near the processor assembly.

### Top view



2. Note the server MAC address.

#### 4. Obtain an IP address for the server

There are two possibilities according to the network system management:

- Retrieve an IP address from the DHCP server table
- Ask the network system administrator to allocate a DHCP IP address using the MAC address of the server

#### 5. Note the IP address obtained

### 1.2.2. Obtaining an IP address with an auto-discovery tool

#### Prerequisite

A laptop is connected to the server via the LAN

#### Procedure

---

**Note** In this procedure the Bonjour browser is used as an example of an IP auto-discovery tool.

---

#### 1. Connect the server to the LAN

Connect the server BMC port to the LAN via a RJ45 Ethernet cable.

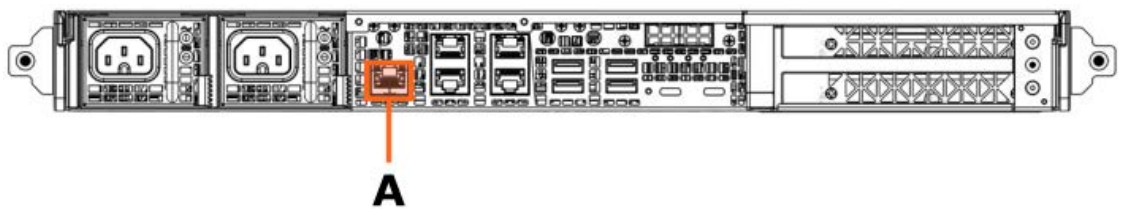
---

**Important** If a switch is used the ports must support a bandwidth of 1 Gb/s.

---

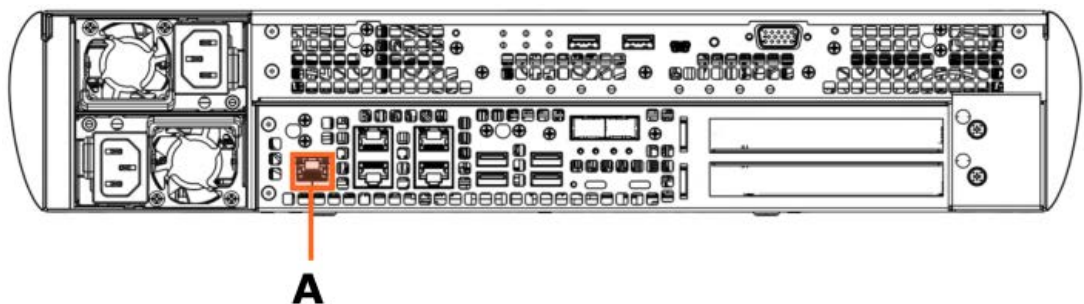
#### BullSequana EXR

##### Rear view



#### BullSequana EXD

##### Rear view



## 2. Check the LAN connection

Check the LEDs are on for the BMC port.

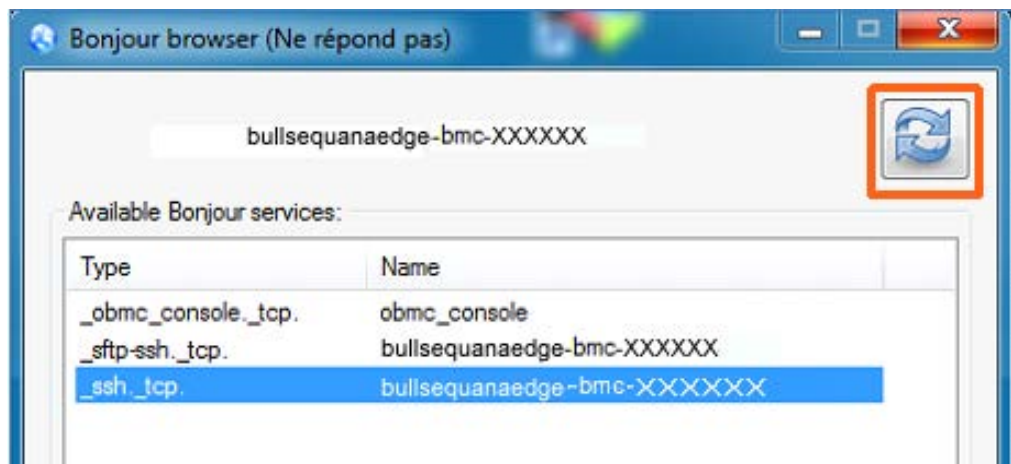
## 3. Install Bonjour on the laptop

1. Download the latest **BonjourBrowserSetup.exe** file.
2. Run **BonjourBrowserSetup.exe** to install Bonjour.

## 4. Launch the Bonjour browser on the laptop

## 5. Refresh the Bonjour browser

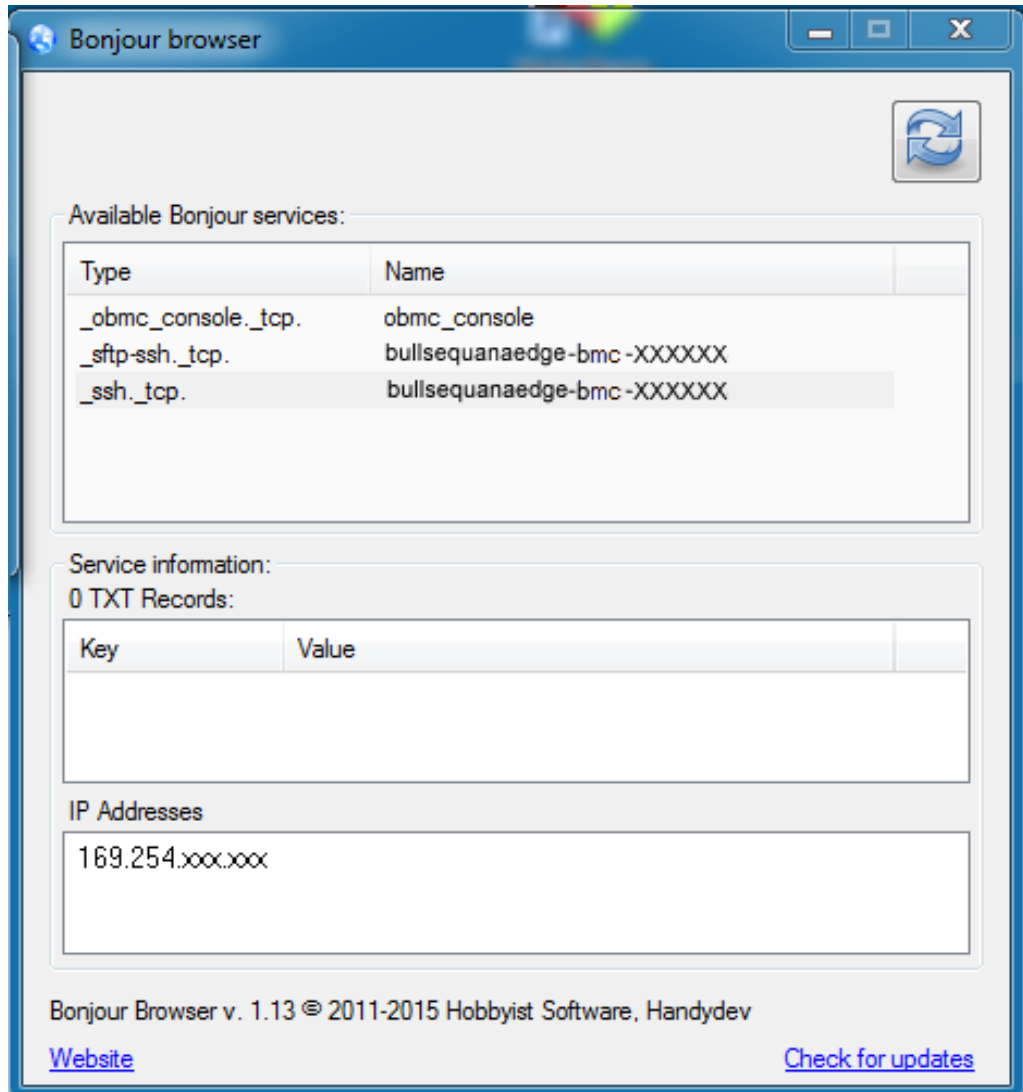
1. Click the Refresh button at the top on the right of the browser window.



2. The available services are displayed.

## 6. Note the server IP address

1. Select the **\_ssh.\_tcp** Bonjour service for the server BMC.
2. The Bonjour server IP address is displayed in the **IP addresses** field.



3. Note the IP address indicated.

### 1.2.3. Connecting to the SHC for the first time

#### Prerequisites

- An IP address is available for the server
- Chrome or Firefox web browsers are recommended
- Setting the language of the web browser to English is recommended

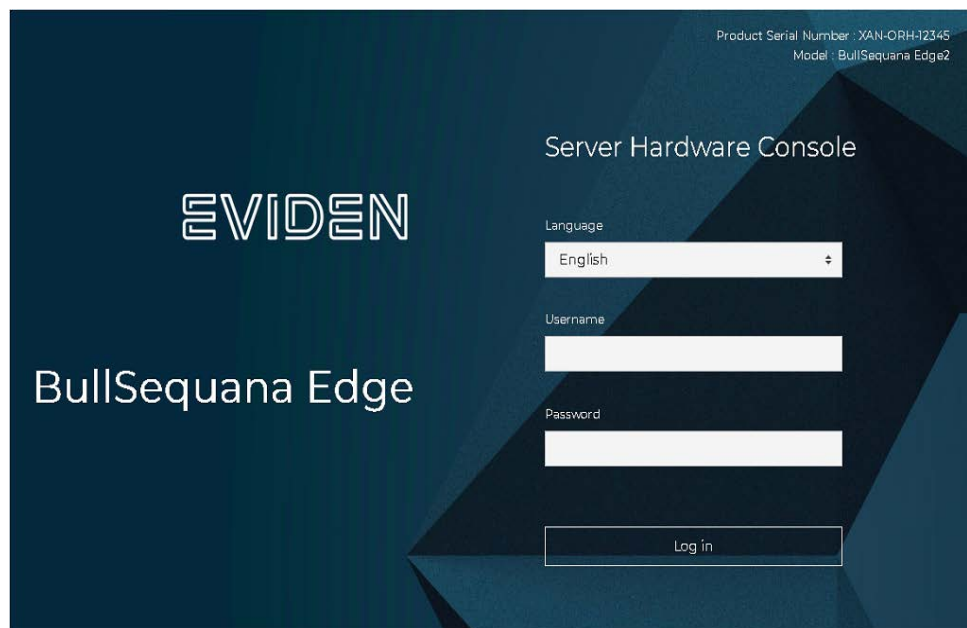
#### Procedure

---

**Note** The connection to the SHC must be made using the https protocol.

---

1. Open a web browser on the laptop.
2. Enter the server IP address into the address bar, using the https secure protocol.
3. Ignore all security messages displayed, including advanced messages. The SHC authentication page opens.



4. Complete the Username and Password fields and click **Log in**. The **Overview** page opens.

SHC default user account	
Username	<b>admin</b>
Password	<b>OpenBmc*</b> The 0 in the default password is the number zero.

---

**See** SHC Reference Guide for more information.

---

---

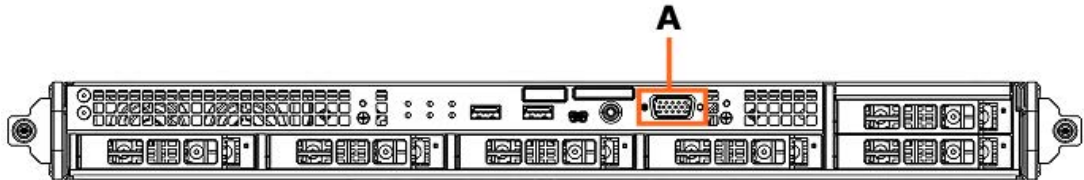
### 1.3. Connecting the server to a monitor (optional)

Connect a monitor to the VGA port (A).

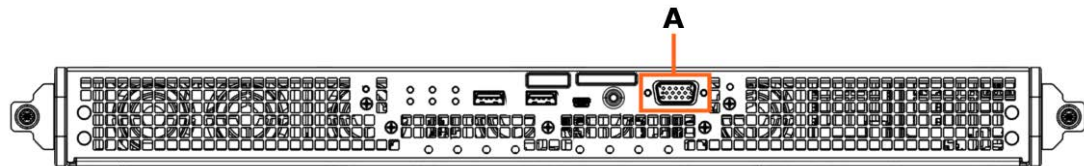
#### BullSequana EXR



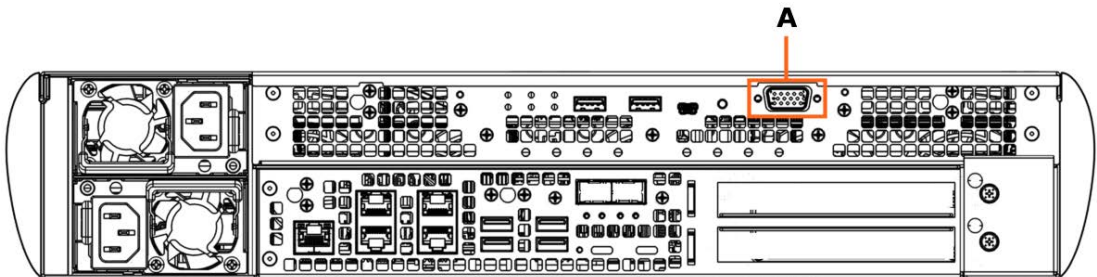
2.5 inch SATA disk disk option



M.2 NVMe disk disk option



#### BullSequana EXD





---

## Chapter 2. Configuring general parameters

---

**Note** The parameters listed in this chapter are configured via the Server Hardware Console (SHC). A connection to the SHC must be in place, as previously described.

---

When a BullSequana EX is configured for the first time, it is advisable to note the following details:

Data required	Value
Hostname	
User name	
Password	
DNS server IP address(es)	
Gateway IP address	
NTP server IP address(es)	
Power restore policy	
Rsyslog IP address	
Rsyslog port	

---

## 2.1. Setting the date and time

**Note** It is recommended to configure an NTP server. Time and date settings configured manually will be lost when the BMC is reset.

---

1. From the **Configuration** tab, click **Date and time settings**. The **Date and time settings** page opens.

### Date and time settings

**i** To change how date and time are displayed (either UTC or browser offset) throughout the application, visit [Profile Settings](#)

Date  
2022-01-11

24-hour time  
08:11:25 UTC

#### Configure settings

Manual

Date  
YYYY-MM-DD

24-hour time (UTC)  
HH:MM

2022-01-11

08:11

NTP

Server 1

Server 2

Server 3

**Save settings**

2. Select the date and time configuration:
  - Manual
  - Network Time Protocol (NTP) servers
3. Click **Save settings**.

4. Click **Profile Settings** at the top of the page. The **Profile settings** page opens.

# Profile settings

## Profile information

Username  
root  
Privilege  
Administrator

## Change password

New password  
Password must be between 8 – 20 characters

Confirm new password

## Timezone display preference

Select how time is displayed throughout the application

- Timezone
- Default (UTC)
  - Browser offset (CEST UTC+1)

5. Select the timezone display:
  - Default
  - Browser offset
6. Click **Save settings**.

## 2.2. Configuring network settings

**Note** The server hostname may be modified in the screen below.

1. From the **Configuration** tab, click **Network settings**. The **Network settings** page opens.

### Network settings

Configure network settings for the BMC

#### System

Default gateway

XX.XX.XX.XX

Hostname

bullhwceb

MAC address

08:00:38:bd:43:6


#### IPV4

IPV4 configuration

An IP address must be available to enable DHCP or Static configuration

- DHCP  
 Static

#### DHCP

IP address	Subnet mask	
XX.XX.XX.XX	255.255.255.0	

#### Static

IP address	Subnet mask
No items available	

[+ Add static IP](#)

#### Static DNS

IP address
No items available

[+ Add DNS server](#)

[Save settings](#)

<b>System</b>	
Default gateway	Default gateway IP address
Hostname	The server host name
Mac address	The server MAC address
<b>IP4V</b>	
DHCP	When enabled, the server IP address is retrieved from a DHCP server
Static	When enabled, the server IP address is static
<b>DHCP</b>	
IP address	Server IP address
Subnet mask	Sub-net mask for the host
<b>Static</b>	
IP address	Server IP address
Subnet mask	Sub-net mask for the host
Add static IP	Click this button to add a static IP address
<b>Static DNS</b>	
IP address	DNS server IP address
Add DNS server	Click this button to add a DNS server address

2. Enter the system parameters: default gateway and hostname.
3. Select IPV4 configuration: DHCP or Static.
4. Add a static IP address, if required.
5. Add a DNS server if required.
6. Click **Save settings**.

## 2.3. Changing the initial user password

**Important** It is strongly recommended to change the initial password once the setup is completed, taking care to record the new account details for subsequent connections.

1. From the user profile button, click **Profile settings**.



The **Profile settings** page opens.

### Profile settings

#### Profile information

Username  
admin  
Privilege  
Administrator

#### Change password

New password  
Password must be between 8 – 20 characters

Confirm new password

#### Timezone display preference

Select how time is displayed throughout the application

Timezone

- Default (UTC)  
 Browser offset (CEST UTC+2)

Save settings

2. Enter and confirm the new password.
  - The password must be between 8 and 20 characters long
  - The password must be a mixture of upper case letters, lower case letters, numbers and special characters
  - The password must be different from the user name
3. Click **Save settings**.

---

**Note** According to the localisation the timezone can also be changed, for example in France UTC+2 would be used.

---

---

## 2.4. Testing parameters

Stop and restart the Server Hardware Console (SHC) to verify that the new parameters have taken effect.

### Procedure

#### 1. Stop the SHC

From the user profile button, click **Log out** to stop the SHC.



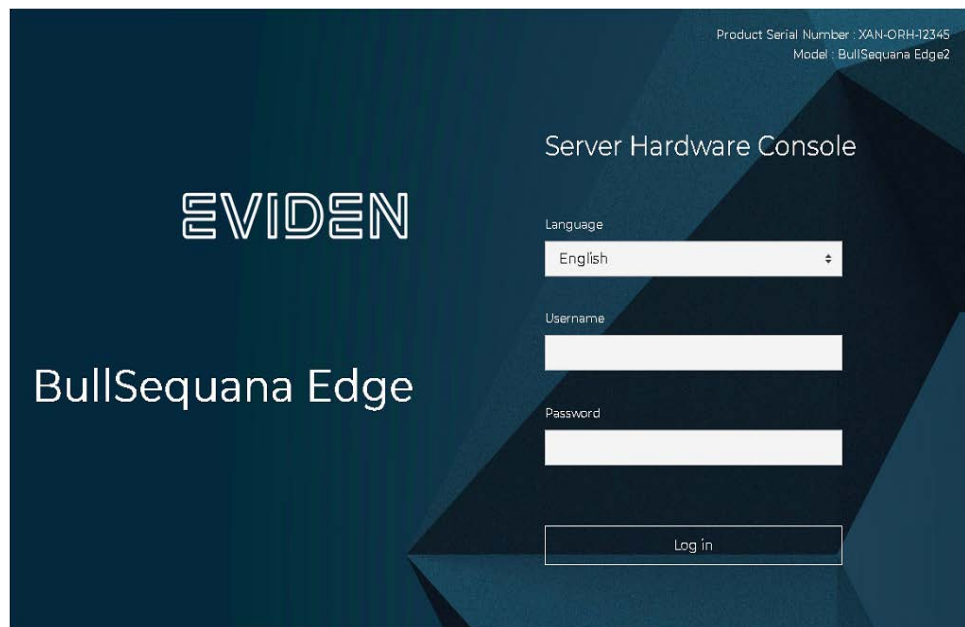
#### 2. Start the SHC

---

**Note** The connection to the SHC must be made using the https protocol.

---

1. Open a web browser on the laptop.
2. Enter the server IP address into the address bar, using the https secure protocol.
3. Ignore all security messages displayed, including advanced messages. The SHC authentication page opens.





---

## Chapter 3. Installing an operating system

The operating system is installed from one of the following:

- A bootable USB drive
- A Pre-boot eXecution Environment (PXE)
- A virtual media device

### Prerequisites

- The server power status is Off
- Depending on the installation option:
  - A bootable USB drive with the OS to be installed is plugged into a USB port
  - A Pre-boot eXecution Environment (PXE) has been set up and is accessible
  - The location for the virtual media ISO file is known

---

## 3.1. Installing an OS

### Procedure

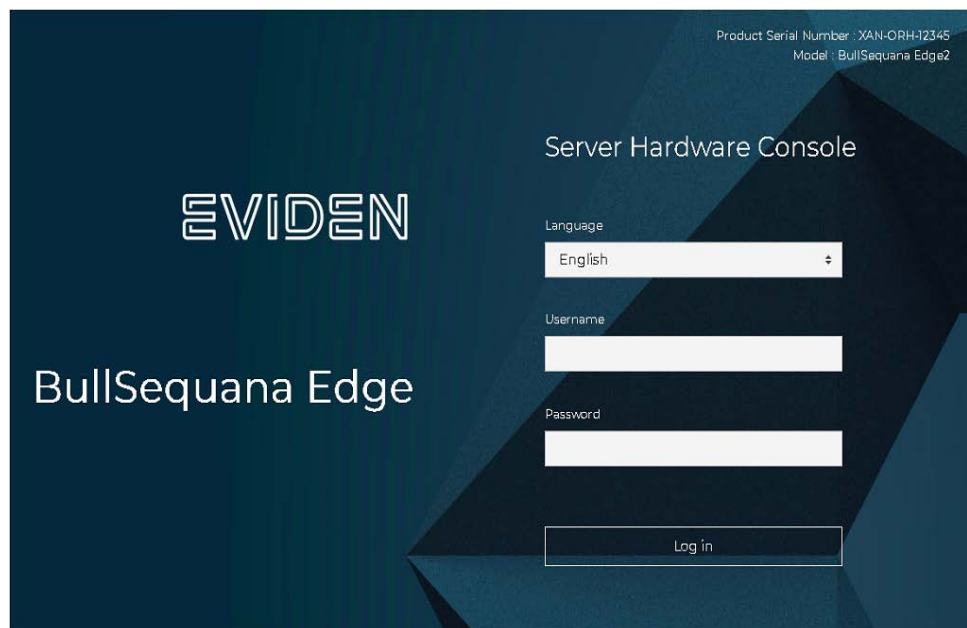
#### 1. Connect to the SHC

---

**Note** The connection to the SHC must be made using the https protocol.

---

1. Open a web browser on the laptop.
2. Enter the server IP address into the address bar, using the https secure protocol.
3. Ignore all security messages displayed, including advanced messages. The SHC authentication page opens.



## 2. Create a virtual media session if this OS installation option is to be used

---

**Note** Only users with Administrator privilege have access to this feature.

---

1. From the **Control** tab, click **Virtual media**. The **Virtual media** page opens.

# Virtual media

## Save image in a web browser

Virtual media device

Add file

Start

2. Click **Add** file.
3. Select an ISO file for the boot.
4. Click **Start**.

## 3. Power on the server

1. From the **Control** tab, click **Server power operations**. The **Server power operations** page opens.
2. In the **Operations** section, click **Power on**.

## 4. Launch the remote system console

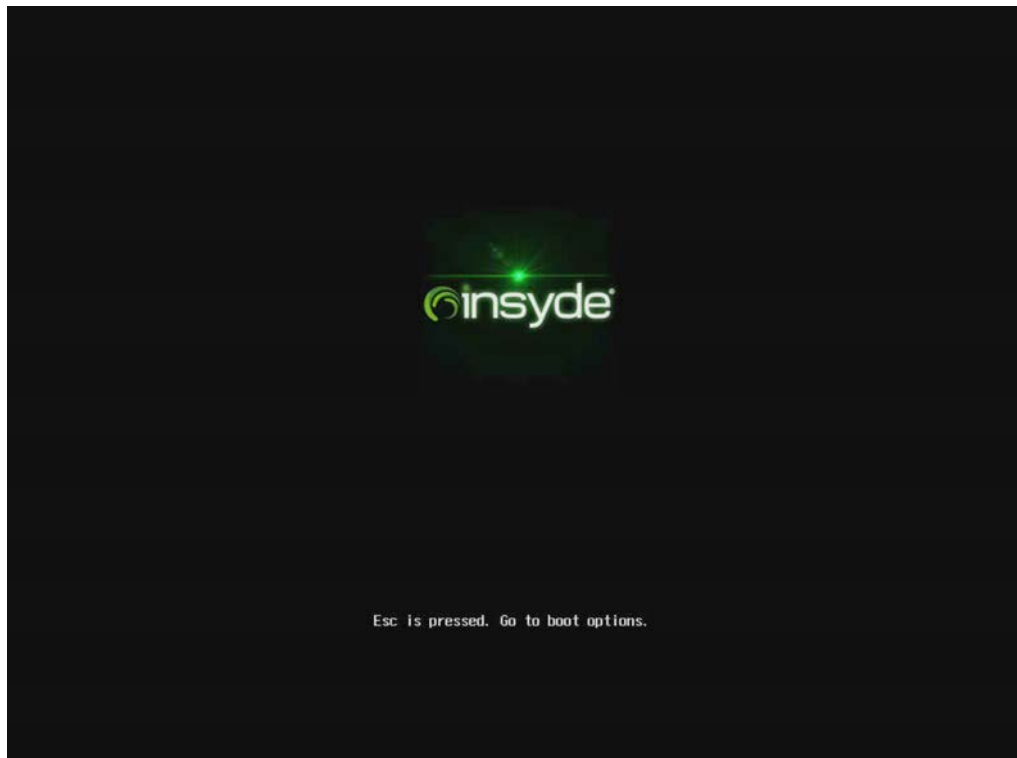
From the **Control** tab, click **KVM**. The **KVM** page opens.

## 5. Access the BIOS interface

1. Wait a few minutes for the following screen to be displayed.



2. Press **[ESC]** to display the BIOS interface.



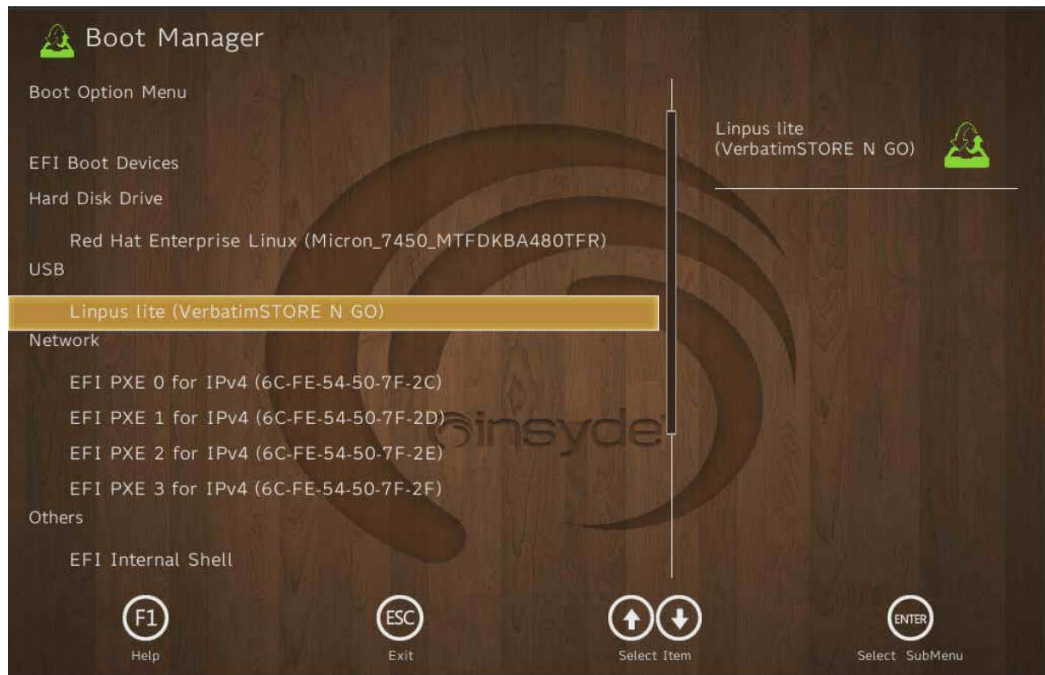
3. Select **Boot Manager** from the main menu using the navigation arrows and press **[Enter]**.



## 6. Define the boot device

1. Select the boot device and press **[Enter]**.

Boot device	Action
Bootable USB drive	Select the corresponding entry in the <b>USB</b> section
PXE server	Select the corresponding entry in the <b>Network</b> section
Virtual media ISO file	Select the corresponding entry in the <b>USB</b> section



2. Follow the instructions displayed to Install the OS.
3. Select the system settings required.

---

## 3.2. Booting the operating system (OS)

---

**Note** It is advisable to boot the OS using the BIOS interface for the first time in order to verify that the installation is correct. If OK, the operating system is booted in the normal way for subsequent boots.

---

### Prerequisite

The server power status is Off.

### Procedure

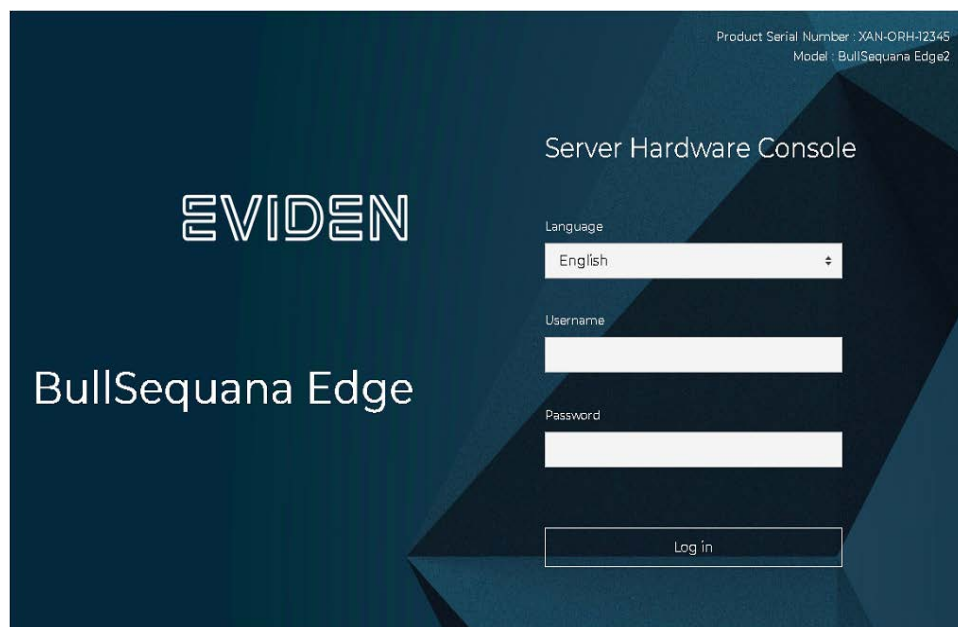
#### 1. Connect to the SHC

---

**Note** The connection to the SHC must be made using the https protocol.

---

1. Open a web browser on the laptop.
2. Enter the server IP address into the address bar, using the https secure protocol.
3. Ignore all security messages displayed, including advanced messages. The SHC authentication page opens.



#### 2. Power on the server

1. From the **Control** tab, click **Server power operations**. The **Server power operations** page opens.
2. In the **Operations** section, click **Power on**.

#### 3. Launch the remote system console

From the **Control** tab, click **KVM**. The **KVM** page opens.

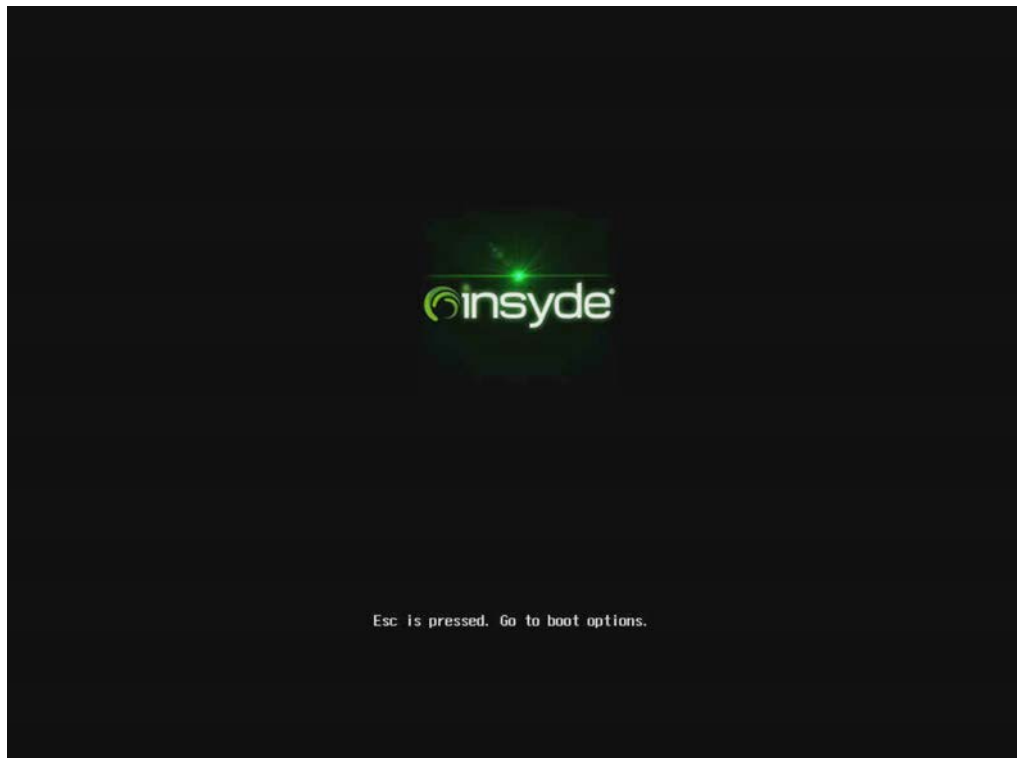
#### 4. Access the BIOS interface

1. Wait a few minutes for the following screen to be displayed.





2. Press **[ESC]** to display the BIOS interface.



3. Select **Boot Manager** from the main menu using the navigation arrows and press **[Enter]**.



## 5. Select the boot option

1. Select the entry corresponding to the OS and press [Enter] to exit setup and complete the system boot.



2. Wait until the boot completes to verify that the operating system has installed correctly.

---

## Chapter 4. Power operations

A BullSequana EX server can be powered on and off using:

- The power button at the front of the server
- The Server Hardware Console (SHC)

---

**See** The Description Guide for more information about the ports and LEDs and the SHC Reference Guide.

---

---

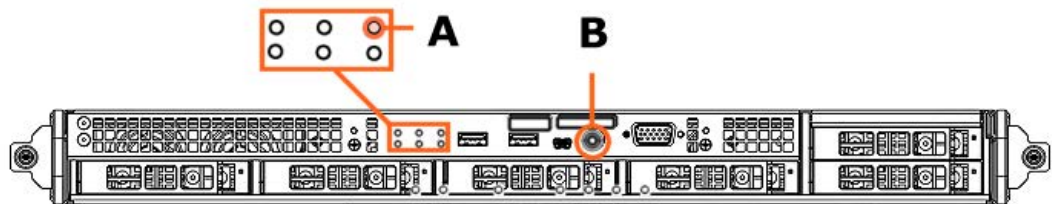
## 4.1. Powering on the server with the power button

1. Check that the power status LED (A) is blinking green to indicate that the server power status is Off.
2. Press the power button (B) for approximately two seconds.

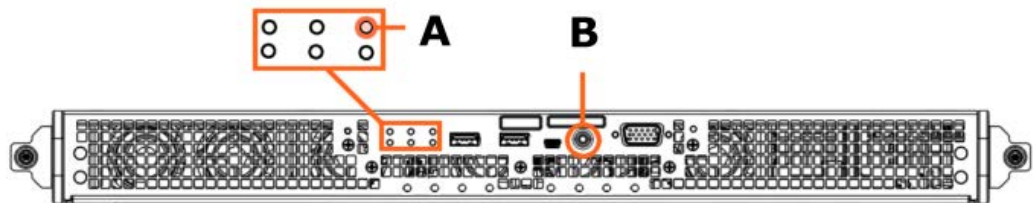
### BullSequana EXR



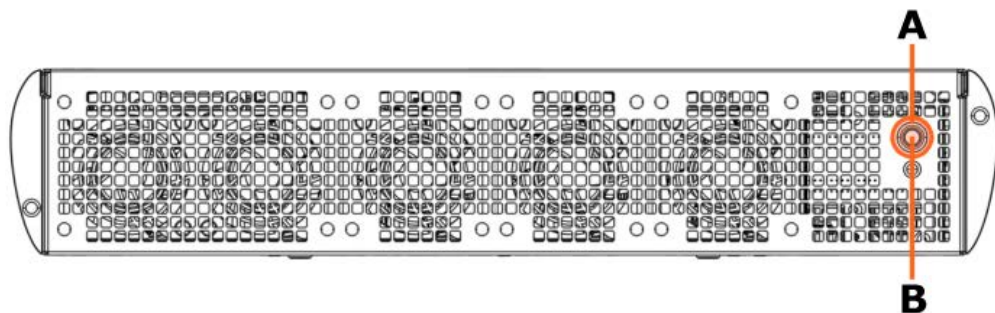
#### 2.5 inch SATA disk option



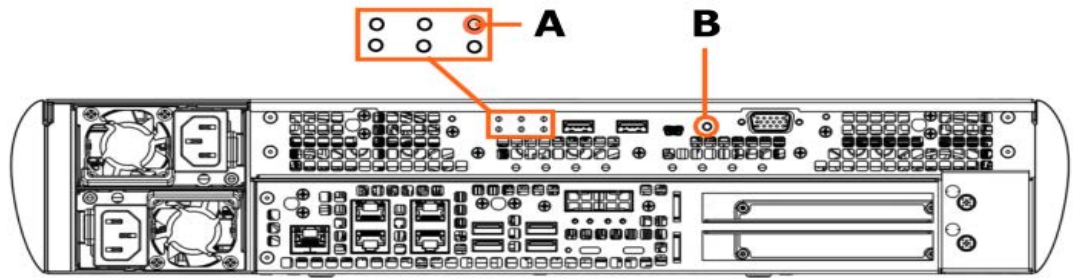
#### M.2 NVMe disk option



### BullSequana EXD



 Rear view



3. Check that the power button LED (A) is on and solid green to indicate that the server power status is Running.

---

## 4.2. Powering on from the SHC

1. From the **Control** tab, click **Server power operations**. The **Server power operations** page opens.
2. In the **Operations** section, click **Power on**.

### Server power operations

#### Current status

Host status  
Not available

Last power operation  
2023-06-08 08:32:26 UTC

Last memory size  
448 GiB

#### Host OS boot settings

Boot settings override

None

Instance 0

Enable one time boot

TPM required policy  
Enable to ensure the system only boots when the TPM is functional.

Enabled

Save

#### Operations

Power on

A message is displayed.

#### Operations

**i** There are no options to display while a power operation is in progress. When complete, power operations will be displayed here.

---

**Note** After initiating the power on of the system, there is a 30 second delay before the update of the host power status to avoid sensor fluctuation. It is therefore necessary to wait 30 seconds before refreshing the Server power operations page of the Server Hardware Console (SHC) to see the updated power status after a power on.

---

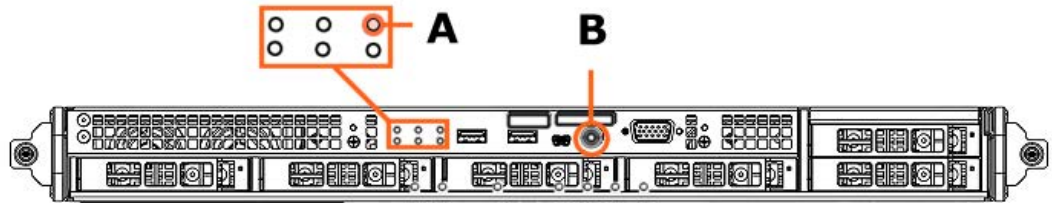
### 4.3. Powering off the server with the power button

1. Check that the power button LED (A) is on and solid green to indicate that the server power status is Running.
2. Press the power button (B) for approximately four seconds.

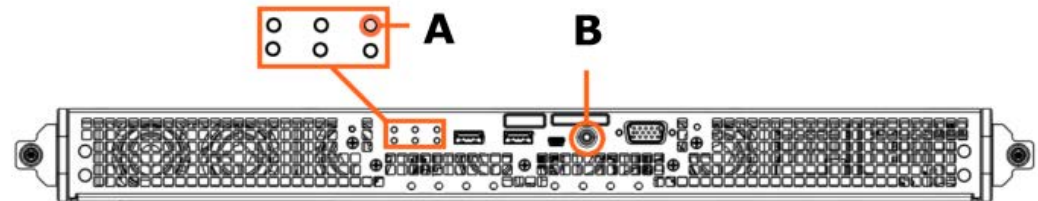
#### BullSequana EXR



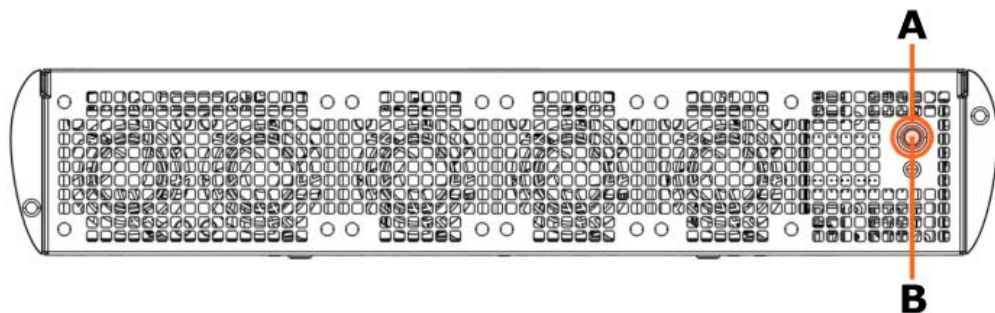
#### 2.5 inch SATA disk option



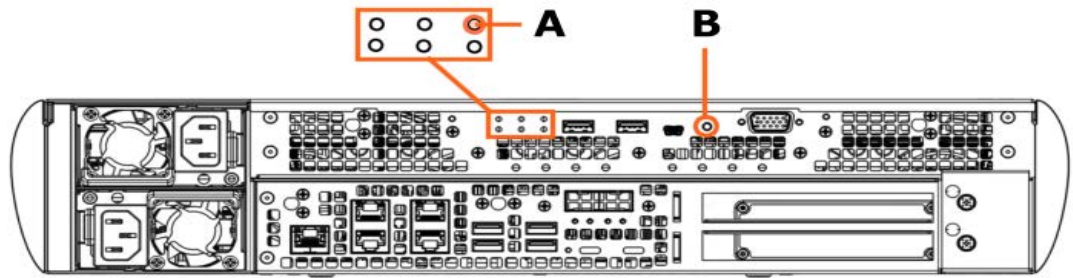
#### M.2 NVMe disk option



#### BullSequana EXD



 **Rear view**



3. Check that the power status LED (A) is blinking green to indicate that the server power status is Off.



---

## 4.4. Rebooting or shutting down from the SHC

1. From the **Control** tab, click **Server power operations**. The **Server power operations** page opens.
2. In the **Operations** section, select the mode and click **Reboot** or **Shutdown**.

### Server power operations

#### Current status

Host status

Not available

Last power operation

2023-06-08 08:32:26 UTC

Last memory size

448 GiB

#### Host OS boot settings

Boot settings override

None

Instance 0

Enable one time boot

TPM required policy

Enable to ensure the system only boots when the TPM is functional.

Enabled

Save

#### Operations

Reboot server

- Orderly - OS shuts down, then server reboots
- Immediate - Server reboots without OS shutting down; may cause data corruption

Reboot

Shutdown server

- Orderly - OS shuts down, then server shuts down
- Immediate - Server shuts down without OS shutting down; may cause data corruption

Shut down

---

## 4.5. Configuring the power restore policy

The power restore policy determines how the system starts after a power disturbance.

1. From the **Control** tab, click **Power restore policy**. The **Power restore policy** page opens.

### Power restore policy

Configure power policy to determine how the system starts after a power disturbance.

Power restore policies

- Always on - The system always powers on when power is applied.
- Always off - The system always remains powered off when power is applied.
- Restore - The system returns to its last on or off power state when power is applied.

Save settings

2. Select the policy.

Power restore policy	Description
Always On	The system always powers on when power is applied
Always Off	The system always remains powered off when power is applied
Last state	The system returns to its last power state when power is applied

3. Click **Save Settings**.

---

## 4.6. Managing power usage

---

**Note** Only users with Administrator privilege have access to this feature.

---

1. From the **Control** tab, click **Manage power usage**. The **Manage power usage** page opens.

### Manage power usage

Set a power cap to keep power consumption at or below the specified value in watts

Current power consumption  
Not available

Power cap setting

Apply power cap

Power cap value (in watts)

Value must be between 1 and 1000

Save

2. To set a power cap:
  - a. Select **Apply power cap**.
  - b. Set the power cap value in the **Power Cap Value (in watts)** box.
3. Click **Save**.

---

**Note** The power consumption and power cap value are indicated on the Overview page.

---



---

## Chapter 5. Maintenance operations

---

### 5.1. Rebooting the BMC

---

**Note** Only users with Administrator privilege have access to this feature.

---

1. From the **Control** tab, click **Reboot BMC**. The **Reboot BMC** page opens.

## Reboot BMC

Last BMC reboot  
2023-06-07 15:07:20 UTC

When you reboot the BMC, your web browser loses contact with the BMC for several minutes. When the BMC is back online, you may need to log in again.

Reboot BMC(s)

2. Click the **Reboot BMC** button and confirm.

A success message is displayed.

Reboot BMC



## 5.2. Checking event logs

### Displaying event logs

From the **Health** tab, click **Event logs**. The **Event logs** page opens.

The screenshot shows the 'Event logs' interface. At the top right is a 'Delete all event logs' button (C). Below it is a search bar (A) with 'Search logs' and '2294 items'. Underneath are 'From date' and 'To date' input fields (B) with 'YYYY-MM-DD' placeholders. A 'Filter' button (D) is on the right. The main table (E) has columns for ID, Severity, Date, and Description. Three log entries are visible, each with an export icon.

Mark	Description
A	Alphabetical search
B	Date range search
C	Log deletion
D	Severity filter
E	Export of log to a json file

### Filtering event logs

Enter one or more search criteria in the alphabetical search (A), date range (B) and severity (D) fields to filter the event logs displayed.

### Exporting event logs

Click the arrow (E) to export an event log to a json file.

### Deleting event logs

Click (C) to delete all event logs.

## 5.3. Checking the sensors

### Displaying sensors

From the **Health** tab, click **Sensors**. The **Sensors** page opens.

### Sensors

**A**  6 of 21 items

**B** Status Filter

**C** Sensor type Filter

<input type="checkbox"/>	Sensor type	Name	Status	Lower critical	Lower warning	Current value	Upper warning	Upper critical
<input type="checkbox"/>	Fan	Fan0 DIMM R	OK	5600 RPM	8000 RPM	8206 RPM	40000 RPM	41800 RPM
<input type="checkbox"/>	Fan	Fan1 CPU	OK	5600 RPM	8000 RPM	8252 RPM	40000 RPM	41800 RPM
<input type="checkbox"/>	Fan	Fan2 CPU	OK	5600 RPM	8000 RPM	8183 RPM	40000 RPM	41800 RPM
<input type="checkbox"/>	Fan	Fan3 DIMM L	OK	5600 RPM	8000 RPM	8104 RPM	40000 RPM	41800 RPM
<input type="checkbox"/>	Fan	Fan4 GPU	OK	5600 RPM	8000 RPM	8115 RPM	40000 RPM	41800 RPM
<input type="checkbox"/>	Fan	Fan5 GPU	OK	5600 RPM	8000 RPM	8241 RPM	40000 RPM	41800 RPM

Mark	Description
A	Alphabetical search
B	Status filter
C	Sensor type filter

### Filtering sensors

Enter one or more search criteria in the alphabetical search (A), date range (B) and severity (C) fields to filter the sensors displayed.

## 5.4. Collecting Logs

A log file is a collection of the logs for the connected server.

### Displaying logs

From the **Health** tab, click **Log Collect**. The **Log Collect** page opens.

The screenshot shows the 'Log Collect' interface. At the top, there is a section 'Initiate log' with a blue 'Get logs' button labeled 'A'. Below it is a light blue information box with a question mark icon and the text 'Create a log collection file for the connected module.' The main section is 'Logs available', which contains a search bar labeled 'B' with the text 'Search logs' and '1 items' to its right. Below the search bar are two date range filters labeled 'C', 'From date' and 'To date', both with 'YYYY-MM-DD' placeholders and calendar icons. Below these filters is a table with columns 'Date and time', 'ID', and 'Size'. The table contains one row with the value '2023-06-01 12:37:53 UTC', '1', and '0.376 MB'. To the right of the table row are two icons: a download icon labeled 'D' and a delete icon labeled 'E'.

Mark	Description
A	Log file creation
B	Alphabetical search
C	Data range search
D	Log file download
E	Log file deletion

### Filtering logs

Enter the search item (B) and / or the date range (C) to filter the log files displayed.



## Collecting logs

---

**Note** Due to space restrictions, it is advisable to delete the existing logs before perform a new log collect.

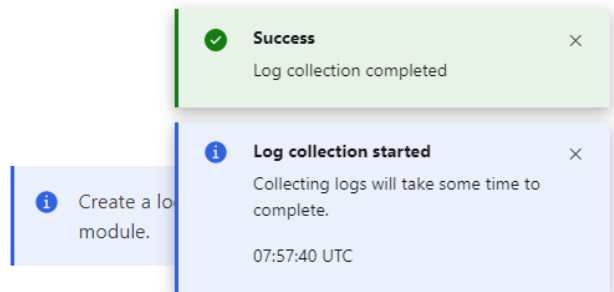
---

Click **Get logs** (A) to create a new log collection.

### Log Collect

Initiate log

Get logs



## Exporting event logs

Click the arrow (D) to download a log file.

## Deleting event logs

Click (E) to delete the log file.

---

## 5.5. Managing firmware versions

1. From the **Configuration** tab, click **Firmware**. The **Firmware** page opens.

### Firmware

#### Firmware version

Component	Version
BIOS	BIOS_SAR160.74.00.002
BMC	110.01.0000
FPGA	1.B.0.0

#### Update firmware

Image file  
Only .tar, .tar.gz files accepted

Force Update

Firmware update may take up 10 minutes due to security features

2. To update a firmware version, click **Add file** to select the firmware version file, and click **Start update**

---

#### Notes

- It is strongly recommended to power off the system before updating the BIOS and FPGA firmware.
  - Select the **Force Update** box to reinstall the same firmware version.
-



