Configure BMC interface (SG6000)

StorageGRID

NetApp
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The user interface for the baseboard management controller (BMC) on the SG6000-CN controller provides status information about the hardware and allows you to configure SNMP settings and other options for the SG6000-CN controller.

Change root password for BMC interface

For security, you must change the password for the BMC's root user.

What you'll need

- The management client is using a supported web browser.

About this task

When you first install the appliance, the BMC uses a default password for the root user (`root/calvin`). You must change the password for the root user to secure your system.

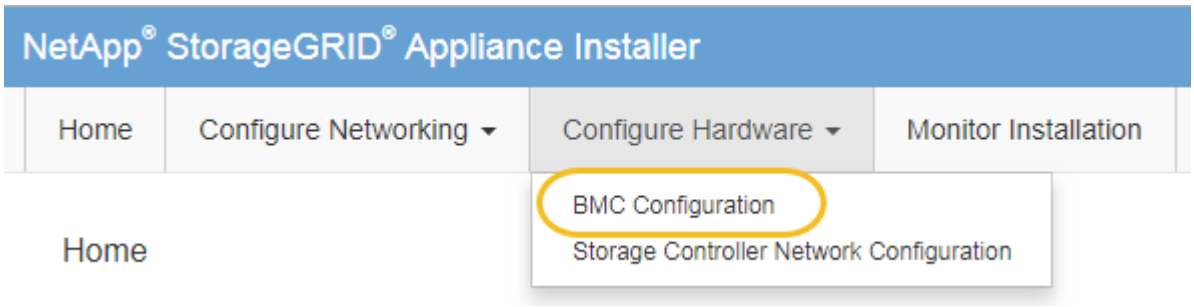
Steps

1. From the client, enter the URL for the StorageGRID Appliance Installer:
   `https://Appliance_Controller_IP:8443`

   For *`Appliance_Controller_IP`*, use the IP address for the appliance on any StorageGRID network.

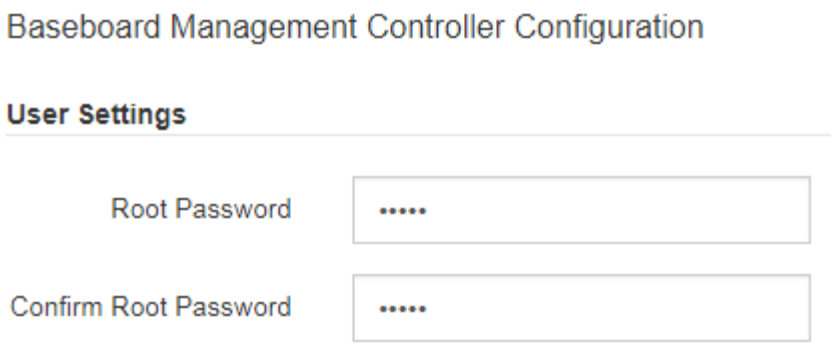
   The StorageGRID Appliance Installer Home page appears.

2. Select **Configure Hardware** > **BMC Configuration**.



   The Baseboard Management Controller Configuration page appears.

3. Enter a new password for the root account in the two fields provided.



4. Click **Save**.

Set IP address for BMC management port

Before you can access the BMC interface, you must configure the IP address for the BMC management port on the SG6000-CN controller.

What you'll need

- The management client is using a supported web browser.
- You are using any management client that can connect to a StorageGRID network.
- The BMC management port is connected to the management network you plan to use.

About this task

For support purposes, the BMC management port allows low-level hardware access.

> You should only connect this port to a secure, trusted, internal management network. If no such network is available, leave the BMC port unconnected or blocked, unless a BMC connection is requested by technical support.

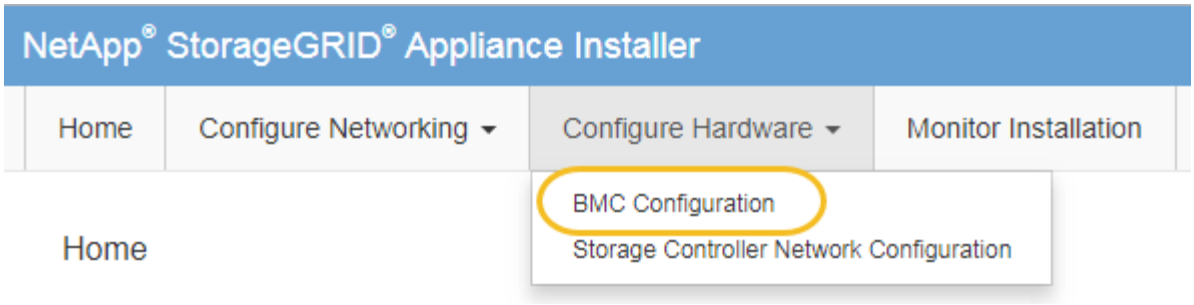
Steps

1. From the client, enter the URL for the StorageGRID Appliance Installer:
   `https://SG6000-CN_Controller_IP:8443`

   For `SG6000-CN_Controller_IP`, use the IP address for the appliance on any StorageGRID network.

   The StorageGRID Appliance Installer Home page appears.

2. Select **Configure Hardware** > **BMC Configuration**.

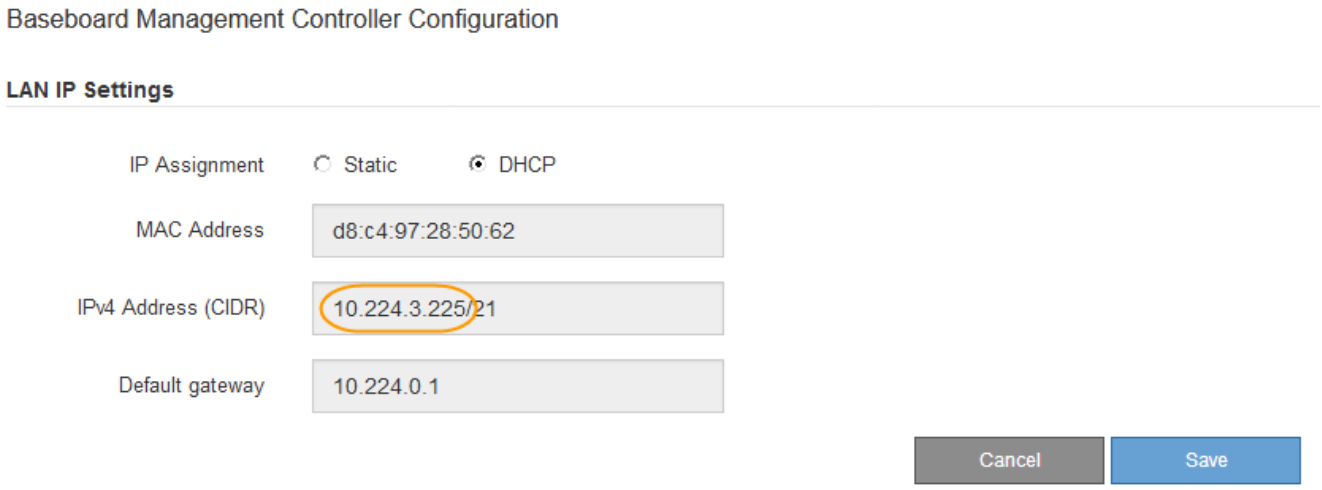


The Baseboard Management Controller Configuration page appears.

3. Make a note of the IPv4 address that is automatically displayed.

   DHCP is the default method for assigning an IP address to this port.

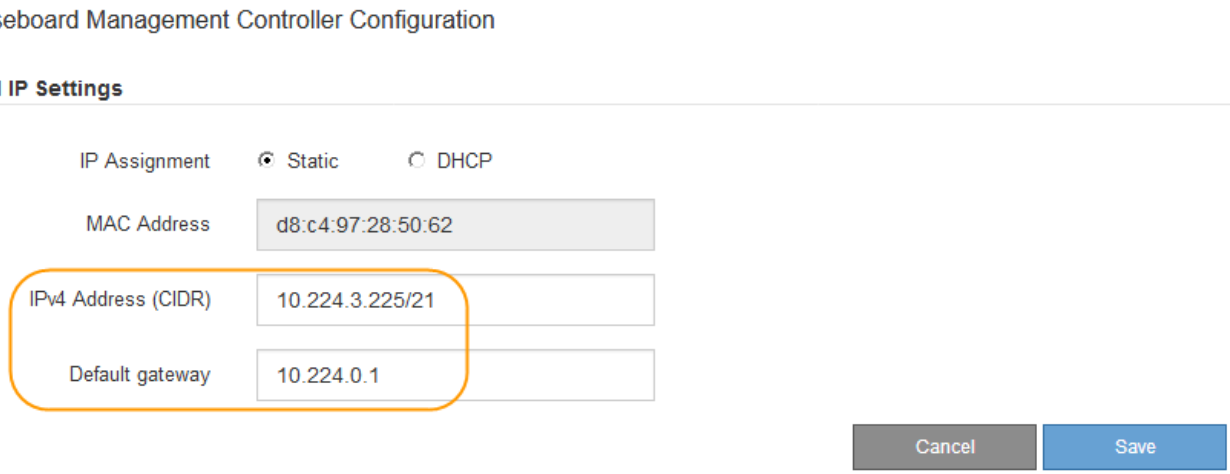
   It might take a few minutes for the DHCP values to appear.



4. Optionally, set a static IP address for the BMC management port.

   You should either assign a static IP for the BMC management port or assign a permanent lease for the address on the DHCP server.

   a. Select **Static**.
   b. Enter the IPv4 address, using CIDR notation.
   c. Enter the default gateway.



d. Click **Save**.

It might take a few minutes for your changes to be applied.

Access BMC interface

You can access the BMC interface on the SG6000-CN controller using the DHCP or static IP address for the BMC management port.

What you'll need

- The BMC management port on the SG6000-CN controller is connected to the management network you plan to use.

- The management client is using a supported web browser.

Steps

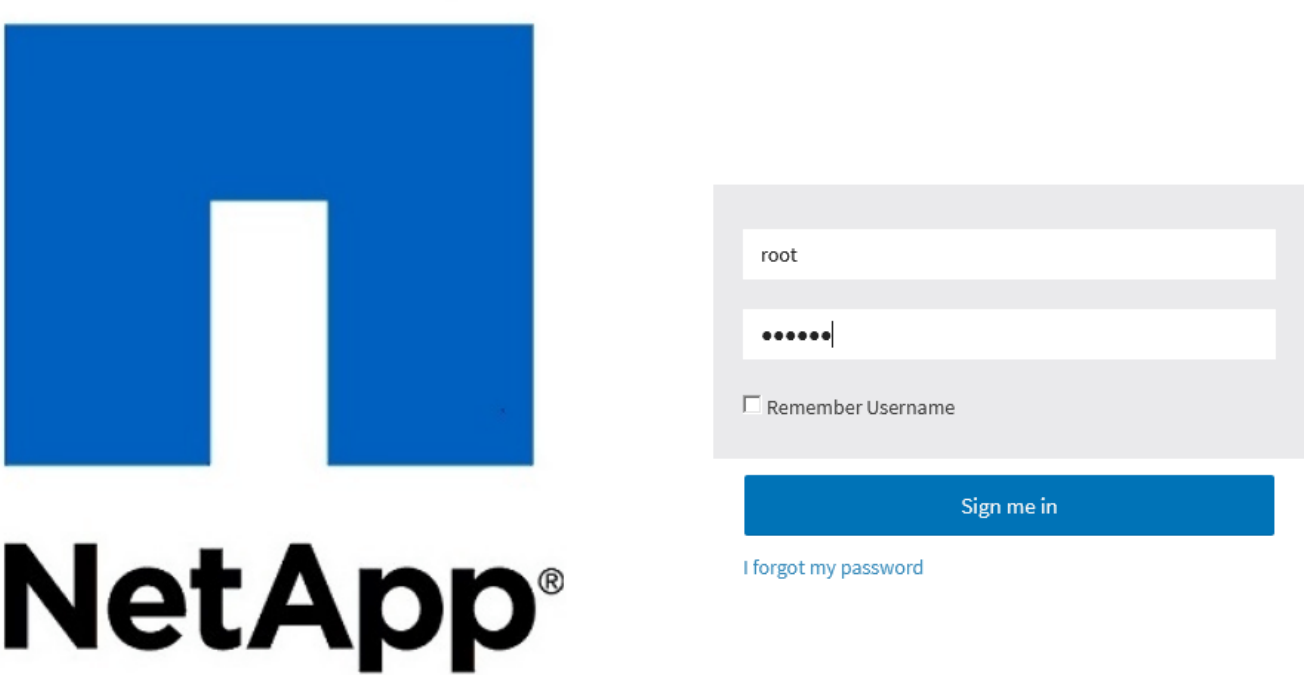
1. Enter the URL for the BMC interface:
   `https://BMC_Port_IP`

   For *`BMC_Port_IP`*, use the DHCP or static IP address for the BMC management port.

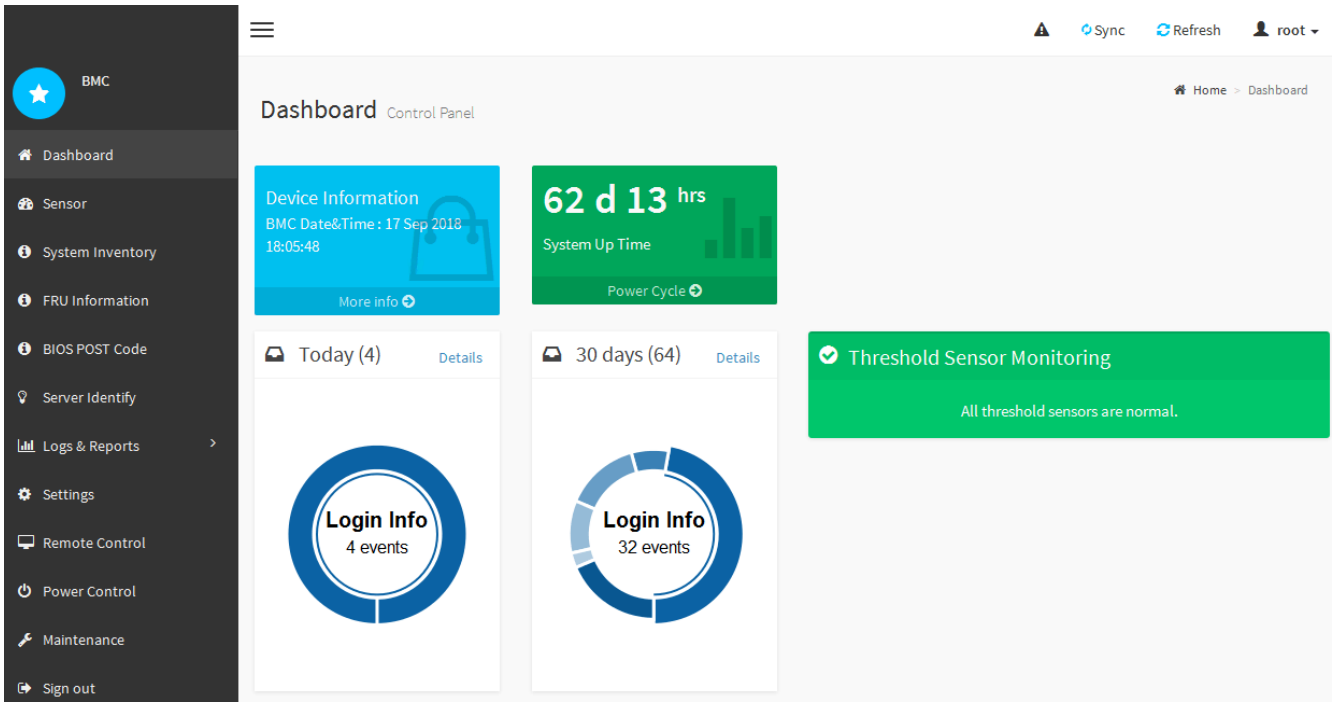
   The BMC sign-in page appears.

If you haven't yet configured `BMC_Port_IP`, follow the instructions in Configure BMC interface (SG6000). If you are unable to follow that procedure due to a hardware problem, and have not yet configured a BMC IP address, you might still be able to access the BMC. By default, the BMC obtains an IP address using DHCP. If DHCP is enabled on the BMC network, your network administrator can provide the IP address assigned to the BMC MAC, which is printed on the label on the front of the SG6000-CN controller. If DHCP is not enabled on the BMC network, the BMC will not respond after a few minutes and assign itself the default static IP `192.168.0.120`. You might need to connect your laptop directly to the BMC port, and change the networking setting to assign your laptop an IP such as `192.168.0.200/24`, in order to browse to `192.168.0.120`.

2. Enter the root username and password, using the password you set when you changed the default root password:



3. Select **Sign me in**.



4. Optionally, create additional users by selecting **Settings** > **User Management** and clicking on any "disabled" user.

> When users sign in for the first time, they might be prompted to change their password for increased security.

Configure SNMP settings for SG6000-CN controller

If you are familiar with configuring SNMP for hardware, you can use the BMC interface to configure the SNMP settings for the SG6000-CN controller. You can provide secure community strings, enable SNMP Trap, and specify up to five SNMP destinations.

What you'll need

- You know how to access the BMC dashboard.
- You have experience in configuring SNMP settings for SNMPv1-v2c equipment.

> BMC settings made by this procedure might not be preserved if the SG6000-CN fails and has to be replaced. Make sure you have a record of all settings you have applied, so they can be easily reapplied after a hardware replacement if necessary.

Steps

1. From the BMC dashboard, select **Settings** > **SNMP Settings**.
2. On the SNMP Settings page, select **Enable SNMP V1/V2**, and then provide a Read-Only Community String and a Read-Write Community String.

   The Read-Only Community String is like a user ID or password. You should change this value to prevent intruders from getting information about your network setup. The Read-Write Community String protects the device against unauthorized changes.

3. Optionally, select **Enable Trap**, and enter the required information.

   Enter the Destination IP for each SNMP trap using an IP address. Fully qualified domain names are not supported.

   Enable traps if you want the SG6000-CN controller to send immediate notifications to an SNMP console when it is in an unusual state. Traps might indicate hardware failures of various components or temperature thresholds being exceeded.

4. Optionally, click **Send Test Trap** to test your settings.
5. If the settings are correct, click **Save**.

Set up email notifications for alerts

If you want email notifications to be sent when alerts occur, you must use the BMC interface to configure SMTP settings, users, LAN destinations, alert policies, and event filters.

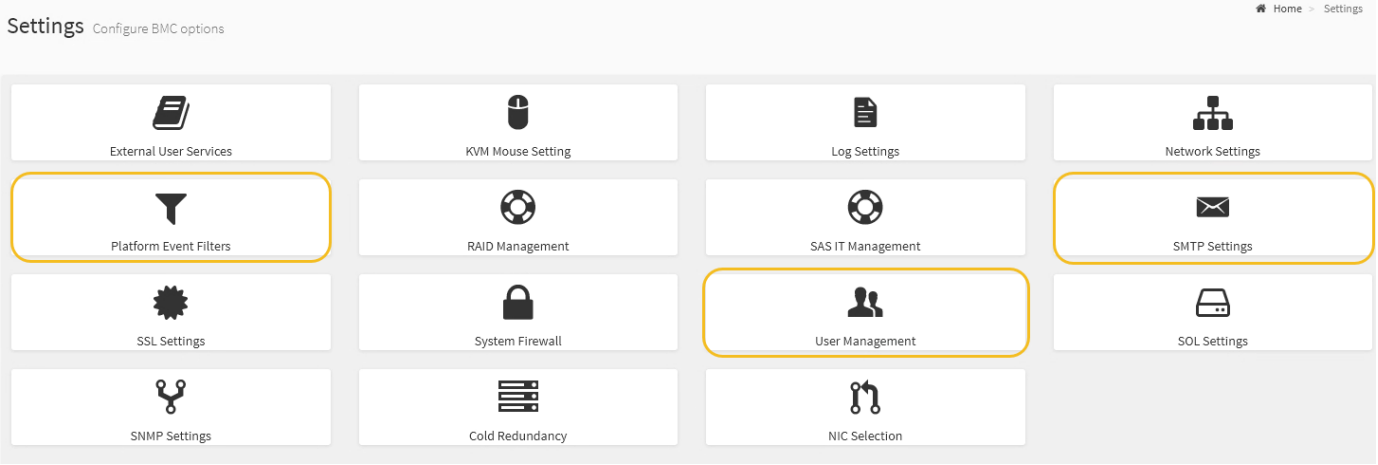
BMC settings made by this procedure might not be preserved if the SG6000-CN fails and has to be replaced. Make sure you have a record of all settings you have applied, so they can be easily reapplied after a hardware replacement if necessary.

What you'll need

You know how to access the BMC dashboard.

About this task

In the BMC interface, you use the **SMTP Settings**, **User Management**, and **Platform Event Filters** options on the Settings page to configure email notifications.



Steps

1. Configure the SMTP settings.
   a. Select **Settings** > **SMTP Settings**.
   b. For Sender Email ID, enter a valid email address.

      This email address is provided as the From address when the BMC sends email.

2. Set up users to receive alerts.
    a. From the BMC dashboard, select **Settings** > **User Management**.
    b. Add at least one user to receive alert notifications.

        The email address you configure for a user is the address the BMC sends alert notifications to. For example, you could add a generic user, such as “notification-user,” and use the email address of a technical support team email distribution list.

3. Configure the LAN destination for alerts.
    a. Select **Settings** > **Platform Event Filters** > **LAN Destinations**.
    b. Configure at least one LAN destination.
        - Select **Email** as the Destination Type.
        - For BMC Username, select a user name that you added earlier.
        - If you added multiple users and want all of them to receive notification emails, you must add a LAN Destination for each user.
    c. Send a test alert.
4. Configure alert policies so you can define when and where the BMC sends alerts.
    a. Select **Settings** > **Platform Event Filters** > **Alert Policies**.
    b. Configure at least one alert policy for each LAN destination.
        - For Policy Group Number, select **1**.
        - For Policy Action, select **Always send alert to this destination**.
        - For LAN Channel, select **1**.
        - In the Destination Selector, select the LAN destination for the policy.
5. Configure event filters to direct alerts for different event types to the appropriate users.
    a. Select **Settings** > **Platform Event Filters** > **Event Filters**.
    b. For Alert Policy Group Number, enter **1**.
    c. Create filters for every event you want the Alert Policy Group to be notified about.
        - You can create event filters for power actions, specific sensor events, or all events.
        - If you are uncertain which events to monitor, select **All Sensors** for Sensor Type and **All Events** for Event Options. If you receive unwanted notifications, you can change your selections later.