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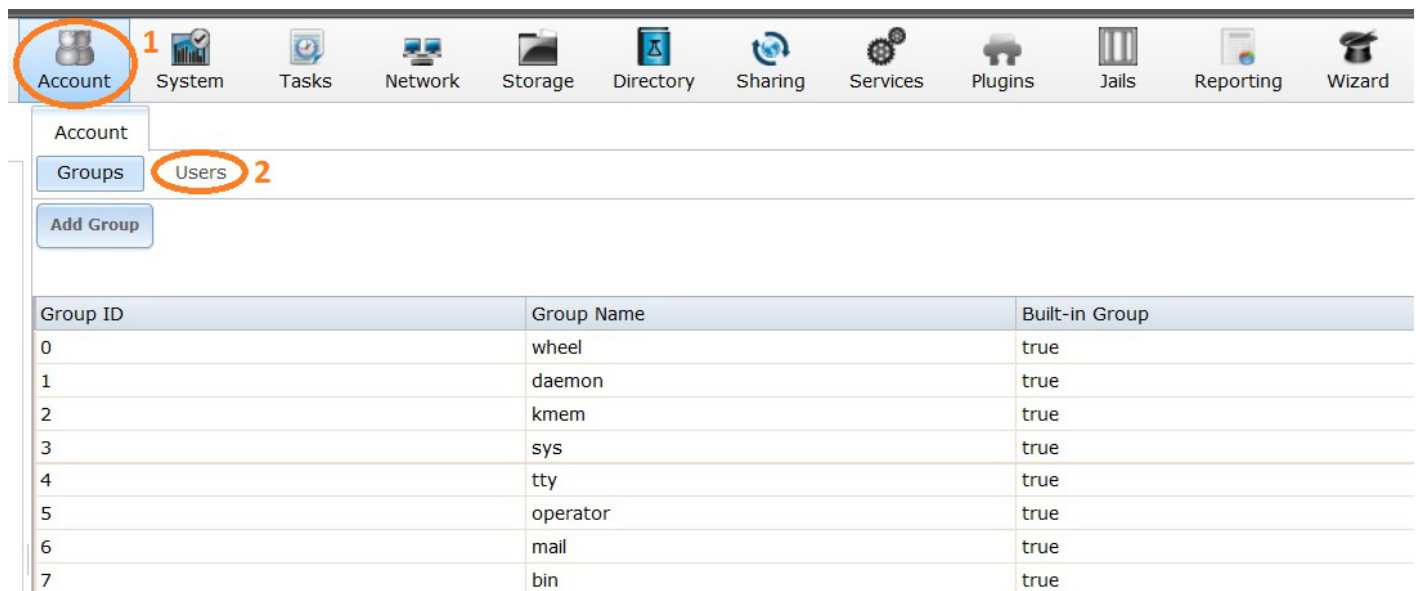
# Email Notifications

The FreeNAS OS and the IPMI monitor (I think, but I have not figured this out yet) can give you warnings and other types of useful information delivered straight to your email account. This is an incredibly useful feature (not to mention important to the security of your data-it's how the system will warn you of problems) and does not take long to setup.

## Setting Up Email Notifications From The FreeNAS Web GUI

Start by deciding which User from the “Accounts” → “Users” page you wish to use for this facility. Incidentally, you do not need to restrict yourself to just one user you can utilise as many as you like.

Fester uses the **root** account for this so go to the “Accounts” page (1) and click on the “Users” button (2).



The screenshot shows the FreeNAS Web GUI interface. At the top, there is a navigation bar with icons for various system functions: Account, System, Tasks, Network, Storage, Directory, Sharing, Services, Plugins, Jails, Reporting, and Wizard. The 'Account' icon is circled in orange and labeled with a red '1'. Below the navigation bar, on the left, there is a sidebar with buttons for 'Account', 'Groups', and 'Add Group'. The 'Users' button is circled in orange and labeled with a red '2'. Below the sidebar, there is a table with three columns: 'Group ID', 'Group Name', and 'Built-in Group'. The table contains the following data:

| Group ID | Group Name | Built-in Group |
|----------|------------|----------------|
| 0        | wheel      | true           |
| 1        | daemon     | true           |
| 2        | kmem       | true           |
| 3        | sys        | true           |
| 4        | tty        | true           |
| 5        | operator   | true           |
| 6        | mail       | true           |
| 7        | bin        | true           |

Now select the “root” account (1) by clicking on it (it should turn blue when you do) and then click on the “Modify User” button (2).

Account
System
Tasks
Network
Storage
Directory
Sharing
Services
Plugins
Jails
Reporting
Wizard

Account
Groups
Users



Add User

| User ID | Username | Primary Group ID | Home Directory | Shell             | Full Name                      | Built-in User | E-mail | Disable password |
|---------|----------|------------------|----------------|-------------------|--------------------------------|---------------|--------|------------------|
| 0       | root     | 0                | /root          | /bin/csh          | root                           | true          |        | false            |
| 1       | daemon   | 1                | /root          | /usr/sbin/nologin | Owner of many system processes | true          |        | false            |
| 2       | operator | 5                | /              | /usr/sbin/nologin | System &                       | true          |        | false            |
| 3       | bin      | 7                | /              | /usr/sbin/nologin | Binaries Commands and Source   | true          |        | false            |
| 4       | tty      | 65533            | /              | /usr/sbin/nologin | Tty Sandbox                    | true          |        | false            |
| 5       | kmem     | 2                | /              | /usr/sbin/nologin | KMem Sandbox                   | true          |        | false            |
| 7       | games    | 13               | /              | /usr/sbin/nologin | Games pseudo-user              | true          |        | false            |
| 8       | news     | 8                | /              | /usr/sbin/nologin | News Subsystem                 | true          |        | false            |
| 9       | man      | 9                | /usr/share/man | /usr/sbin/nologin | Mister Man Pages               | true          |        | false            |
| 14      | ftp      | 14               | /nonexistent   | /bin/csh          |                                | true          |        | false            |
| 22      | sshd     | 22               | /var/empty     | /usr/sbin         | Secure Shell                   | true          |        | false            |

Modify User
Change E-mail


In the "E-mail:" text box type in the email account you want to use to receive the messages from your server (Fester uses a Gmail account for this e.g. [Festerservermail@gmail.com](mailto:Festerservermail@gmail.com)).

**Modify User**

|                                |                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>User ID:</b>                | <input type="text" value="0"/>                                                                               |
| <b>Username:</b>               | <input type="text" value="root"/>                                                                            |
| <b>Primary Group:</b>          | <input type="text" value="wheel"/>                                                                           |
| <b>Home Directory:</b>         | <input type="text" value="/root"/> <input type="button" value="Browse"/>                                     |
| <b>Shell:</b>                  | <input type="text" value="csh"/>                                                                             |
| <b>Full Name:</b>              | <input type="text" value="root"/>                                                                            |
| <b>E-mail:</b>                 | <input type="text" value="your_email_address_here__"/>                                                       |
| <b>Password:</b>               | <input type="password"/>                                                                                     |
| <b>Password confirmation:</b>  | <input type="password"/>  |
| <b>Disable password login:</b> | <input type="checkbox"/>  |
| <b>Lock user:</b>              | <input type="checkbox"/>                                                                                     |

Now scroll down this window and click on the “OK” button.

**Confirmation:**

**Disable password login:** ☐ 

**Lock user:** ☐

**Permit Sudo:** ☐

**Microsoft Account:** ☐

**SSH Public Key:**

**Home Directory Mode:**

|         | Owner                               | Group                               | Other                               |
|---------|-------------------------------------|-------------------------------------|-------------------------------------|
| Read    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Write   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Execute | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

**Auxiliary groups:**

| Available |    | Selected |
|-----------|----|----------|
| sys       | << |          |
| tty       |    |          |
| uucp      | >> |          |
| webdav    |    |          |
| wheel     |    |          |
| www       |    |          |

**OK** **Cancel**

Now go to the "System" page (1) and click on the "Email" button (2).

The screenshot shows the FreeNAS web interface. At the top, there is a navigation bar with icons for Account, System, Tasks, Network, Storage, Directory, Sharing, Services, Plugins, Jails, Reporting, and Wizard. The 'System' icon is circled in red with a red '1' next to it. Below this, there is a sub-menu bar with tabs for Information, General, Boot, Advanced, Email, System Dataset, Tunables, Update, CAs, Certificates, and Support. The 'Email' tab is circled in red with a red '2' next to it. The main content area is titled 'System Information' and displays various system details in a table-like format:

|              |                                           |                      |
|--------------|-------------------------------------------|----------------------|
| Hostname     | [REDACTED]                                | <a href="#">Edit</a> |
| Build        | FreeNAS-9.10-RELEASE (2def9c8)            |                      |
| Platform     | Intel(R) Xeon(R) CPU E5-2620 v3 @ 2.40GHz |                      |
| Memory       | 16248MB                                   |                      |
| System Time  | [REDACTED]                                |                      |
| Uptime       | [REDACTED]                                |                      |
| Load Average | 0.00, 0.06, 0.13                          |                      |

To setup email notifications we must use an email address for one of the user accounts on the FreeNAS server (not your actual external email address e.g. Festerservermail@gmail.com). This is an internal email address (i.e. for the server only) and it follows a specific syntax. Here is how it works.

**user@hostname.local**

The hostname of your server can be found in the "System" → "Information" page and looks something like this.

Account System Tasks Network Storage Direct

System Information General Boot Advanced Email System

**System Information**

|              |                                           |      |
|--------------|-------------------------------------------|------|
| Hostname     | [Redacted]                                | Edit |
| Build        | FreeNAS-9.10-RELEASE (2def9c8)            |      |
| Platform     | Intel(R) Xeon(R) CPU E5-2620 v3 @ 2.40GHz |      |
| Memory       | 16248MB                                   |      |
| System Time  | [Redacted]                                |      |
| Uptime       | [Redacted]                                |      |
| Load Average | 0.00, 0.06, 0.13                          |      |

Here is an example hostname.

Hostname TestNAS1.local Edit

So in Fester's case the internal email address would take this form.

**root@TestNAS1.local**

So armed with this information we can now go ahead and start configuring the "Email" page.

In the "From email:" text box (1) type the internal email address you want (Fester's is root@TestNAS1.local).

In the "Outgoing mail server:" text box (2) type in the mail server of the email service you use. If you don't know it you can usually get it from looking on the mail service provider's website (Fester uses Gmail so this would be set to **smtp.gmail.com**).



The Gmail service uses port 25 for plain text email, port 465 for SSL encrypted email and port 587 for TLS encrypted email.

In the "Port to connect to:" text box (3) type in the port you need, again if you don't know it you can usually get it from the mail service provider's website (Fester uses SSL encryption therefore the port number is 465).

In the "TLS/SSL:" drop down selection box (4) chose if you want encryption or not, and which type (your mail service provider must support your choices).

Put a tick in the "Use SMTP Authentication:" tick box (5) if this is required.

In the "Username:" text box (6) type in the user name only (not the complete email address) of the external email address you want to use for notifications (in Fester's case this is **Festerservermail**).

Next type in the password for your external email account (not the internal server user account) in the "Password:" text box and then retype your password again to confirm it in the "Password confirmation:" text box (7).

Now click the "Save" button (8).

Do not click on the "Send Test Mail" button (9) yet as there is a little more work to be done.

System

Information General Boot Advanced **Email** System Dataset Tunables Update CAs Certificate

**From email:** 1 root@TestNAS1.local ⓘ

**Outgoing mail server:** 2 smtp.gmail.com ⓘ

**Port to connect to:** 3 465 ⓘ

**TLS/SSL:** 4 SSL ⓘ

**Use SMTP Authentication:** 5 ☒

**Username:** 6 Festerservermail ⓘ

**Password:** 7 ..... ⓘ

**Password confirmation:** 8 ..... ⓘ

HINT: Test e-mails are sent to root user. To configure it use Account -> Users -> View Users -> root -> Change E-mail

8 **Save** **Send Test Mail** 9

The next part applies specifically to Gmail. If you are using a different mail service provider I can't help you.

Log into your external email account (in Fester's case this was Fesrterservermail@gmail.com) and navigate to the "My Account" page.

Go to "Connected Apps & Sites" and turn on "Allow less secure apps".

If you do not do this then Gmail will prevent the server from accessing your external email account and you may receive an email entitled "Sign-in attempt Prevented" or something to that effect in your Gmail inbox.

(Fester does not have screen shots for this. If anyone would like to provide some copyright free ones I would be happy to include them in the guide or you could replace this or any section with your own?)

Now go back to the "System" → "Email" page in FreeNAS and click on the "Send Test Mail:" button (9). If all goes well you should receive an email from your server momentarily.

If you are using 2 step verification with your Gmail account then you will not receive the email. You must go into your Gmail account and do a little more configuration.

## Configuration Of A Gmail Account With 2 Step Verification

Unfortunately Fester cannot help you because he doesn't know how.

If anyone would like to provide the information with some copyright free screen shots I will try to include them in the guide or you could replace this or any section with your own?

## Setting Up Email Notifications From The IPMI Web GUI

I don't know how to do this or if it is even possible to get IPMI to email notifications direct to a Gmail account.

If anyone knows how to do this would you pass on the information and I will try to include it in the guide so everyone can benefit from your knowledge or you could replace this or any section with your own?

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