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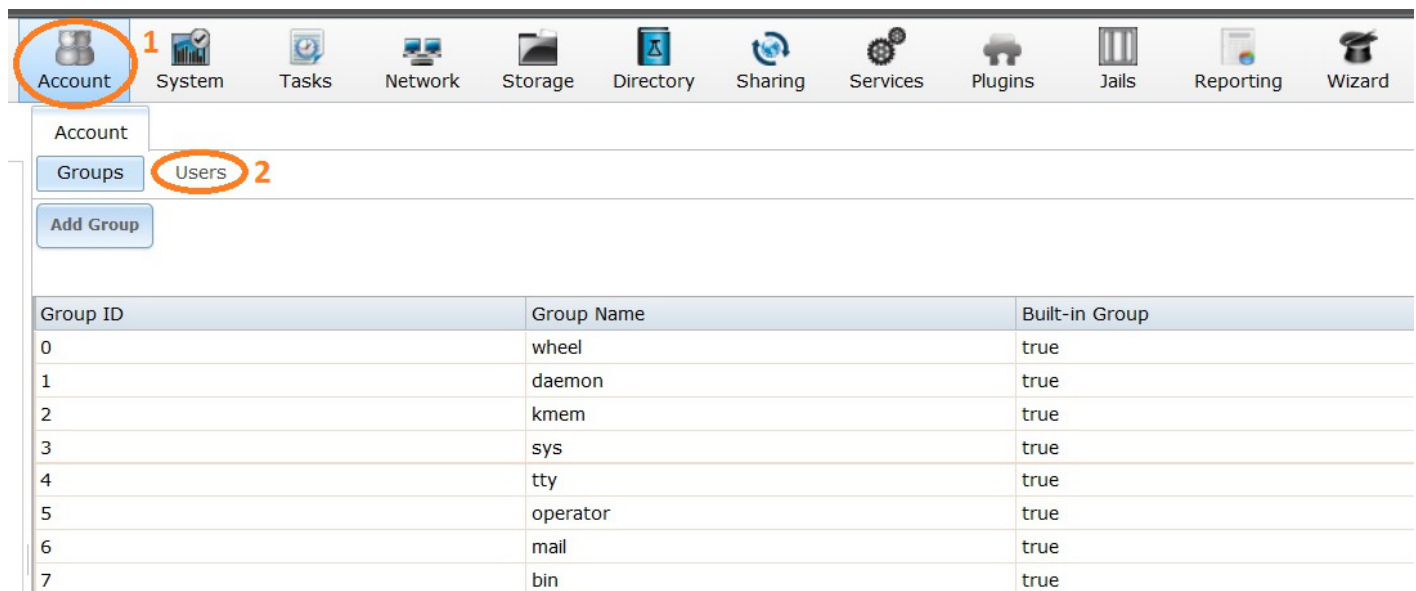
Email Notifications

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 '1'. Below the navigation bar, there is a dropdown menu with 'Account', 'Groups', and 'Users' options. The 'Users' option is circled in orange and labeled with a '2'. Below the dropdown menu, there is an 'Add Group' button. The main content area displays a table with 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).

Modify User

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

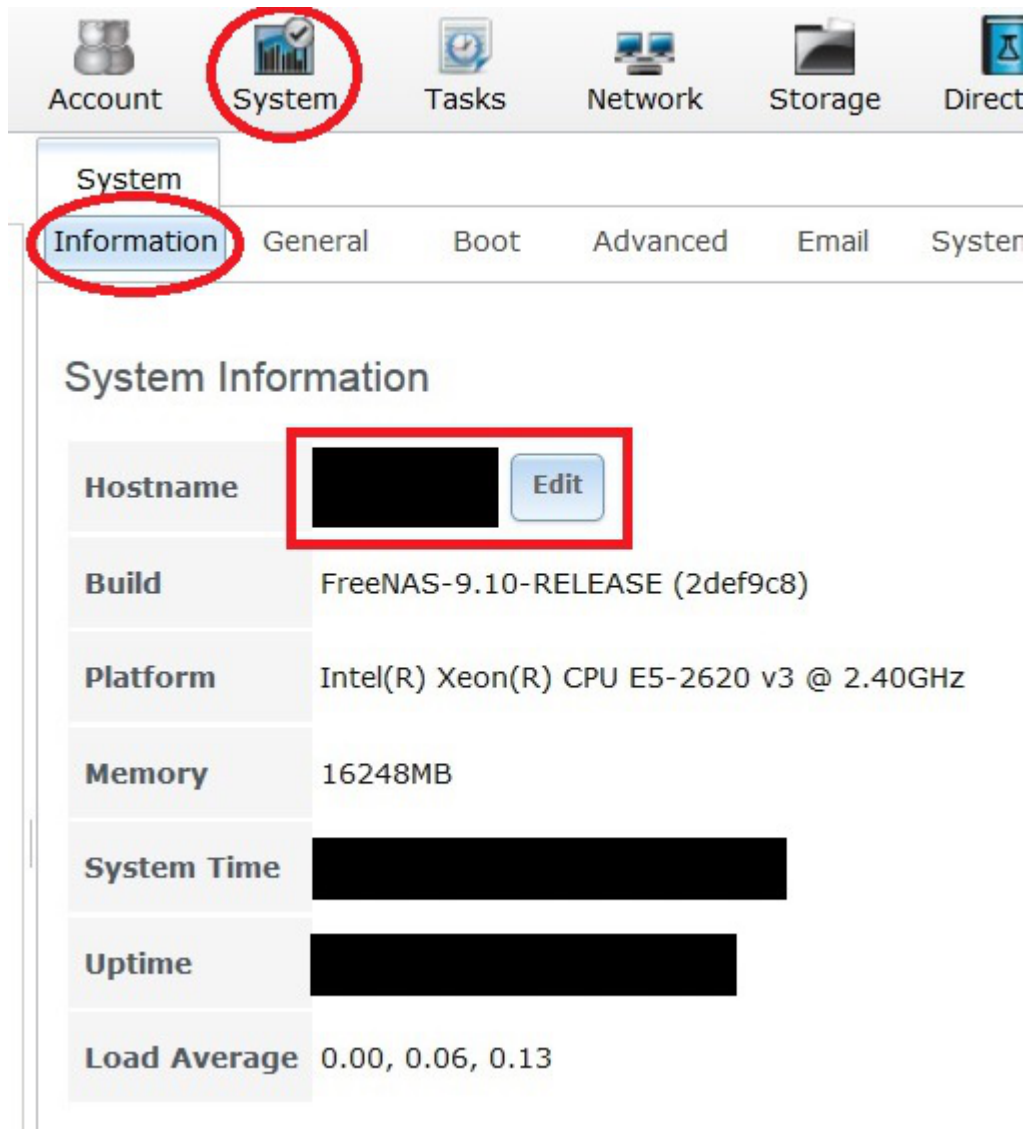
The screenshot shows the FreeNAS web interface. At the top, there is a navigation bar with icons for Account, System, Tasks, Network, Storage, Directory, Sharing, Services, Plugins, Jails, Reporting, and Wizard. The 'System' icon is circled in red with a red '1' next to it. Below this, there is a sub-menu for 'System' 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 displays 'System Information' with a table of system details:

Hostname	[REDACTED]	<input type="button" value="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	

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

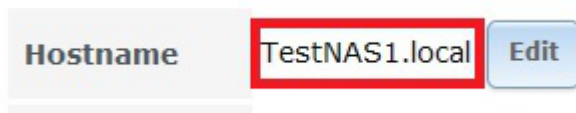
The hostname of your server can be found in the "System" → "Information" page and looks something like this.



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 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).

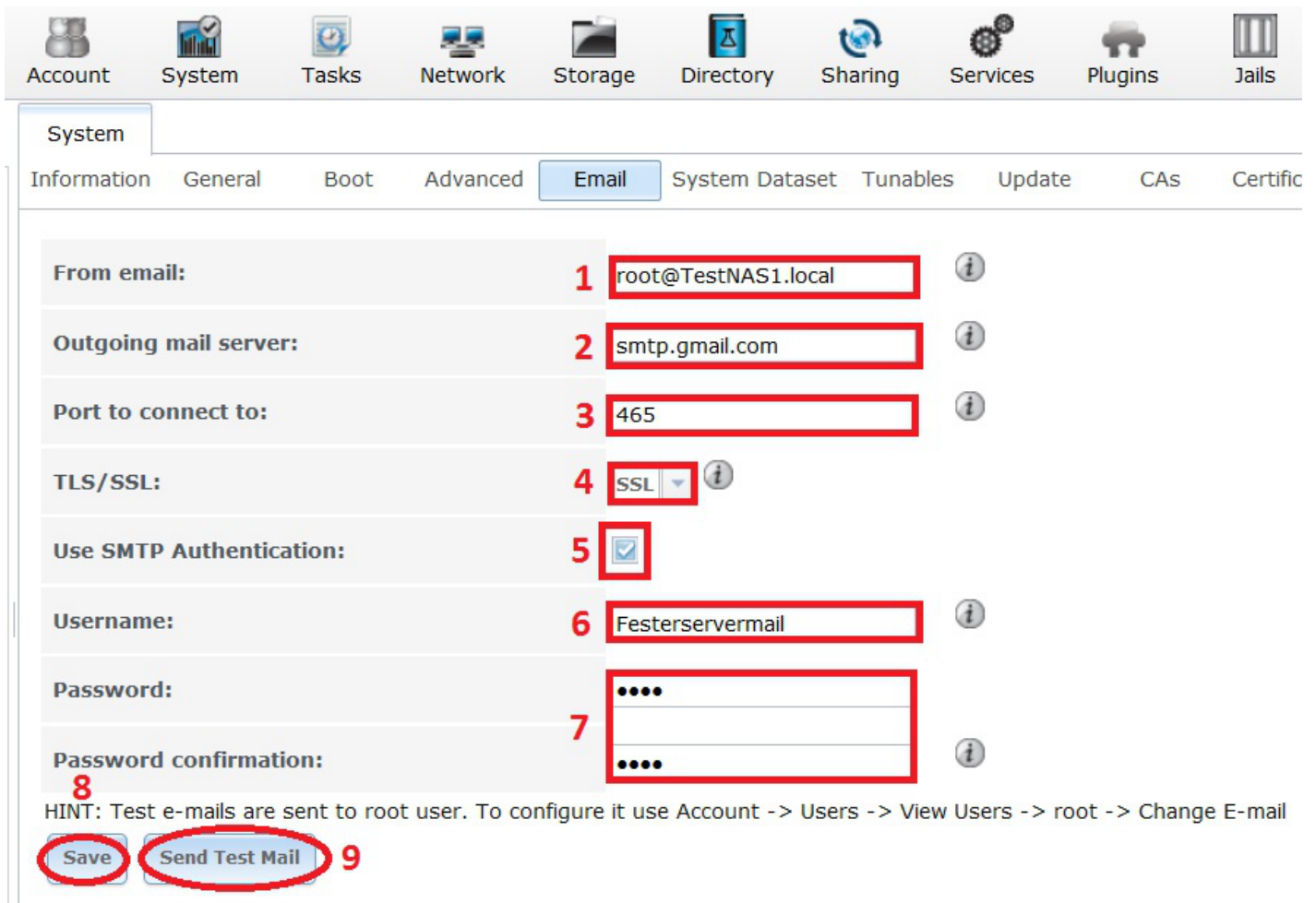
Put a tick in the "Use SMTP Authentication:" tick box (5) if this is required.

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.



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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