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Backing Up The FreeNAS Configuration File Nightly Using A Cron Job

This is entirely optional.

It is recommended that you have email notifications setup on the FreeNAS server before embarking on this subsection.

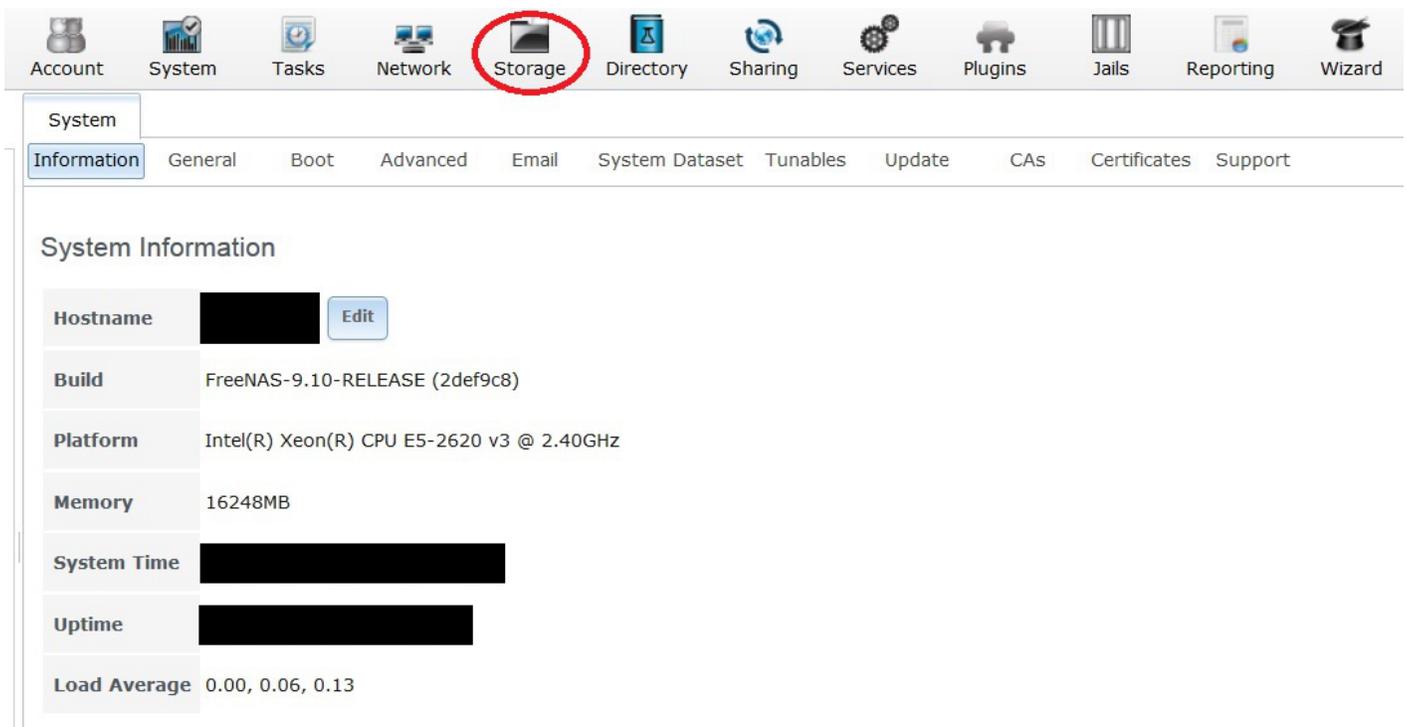
This is a guide for creating a Cron job to back-up the FreeNAS configuration file each night.

This file can be used for recovery purposes should your FreeNAS server encounter a problem of some sort (bloody ferrets!), so this is well worth doing.

Creating the Dataset

The first thing to do is to create a dataset within which we can store the nightly backup of the FreeNAS configuration file. This will keep things neat and tidy.

Go to the “Storage” page.



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 'Storage' icon is circled in red. Below this is a sub-menu for 'System' with tabs for Information, General, Boot, Advanced, Email, System Dataset, Tunables, Update, CAs, Certificates, and Support. The 'Information' tab is selected, showing 'System Information' with fields for Hostname, Build, Platform, Memory, System Time, Uptime, and Load Average.

System Information	Value
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

Select “Tank1” or whatever you called the volume (1) by clicking on it (it should turn blue when selected).

A series of buttons should appear on the bottom of the screen.

From these buttons click on one that creates a dataset (2).

The screenshot shows the 'Storage' interface with the 'Volumes' tab selected. Below the navigation tabs are buttons for 'Volume Manager', 'Import Disk', 'Import Volume', and 'View Disks'. A table lists datasets with columns for Name, Used, and Available. The second row, 'Tank1', is highlighted with a red border and has a red '1' next to it. Below the table, a 'Create Dataset' button is circled in red with a red '2' above it. At the bottom, a toolbar contains several icons, with the 'Add Dataset' icon (a grid with a plus sign) circled in red.

Name	Used	Available
▲ Tank1	1.9 GiB (0%)	29.0 TiB
▲ Tank1	1.4 GiB (0%)	20.0 TiB
Media	33.4 MiB (0%)	20.0 TiB
TestShare	33.4 MiB (0%)	20.0 TiB
▲ jails	1013.3 MiB (0%)	20.0 TiB
jails/.warden-template-pluginjail	605.6 MiB (0%)	20.0 TiB
jails/plexmediaserver_1	407.4 MiB (0%)	20.0 TiB

A new smaller window will pop up for creating the dataset.

- In the “Dataset Name:” text box (1) give the share a name (because this is a backup dataset, Fester used **NightlyBackup**).
- Leave the “Compression level:” drop down selection box (2) set to lz4.
- Set the “Share type:” to whatever suits the type of clients on your network (Fester has mainly Windows machines so I set this to **Windows**).
- Leave the “Case Sensitivity:” drop down selection box and “Enable atime:” at their default settings as shown (4).
- “ZFS Deduplication:” should be set to **off** in the drop down selection box (5) unless you understand this and you have plenty of memory.
- Now click the “Add Dataset” button (6).

Create Dataset

Create ZFS dataset in Tank1

1 Dataset Name:

2 Compression level:

3 Share type:

Case Sensitivity:

4 Enable atime: Inherit (on)
 On
 Off

ZFS Deduplication: Enabling dedup may have drastic performance implications, as well as impact your ability to access your data. Consider using compression instead.

5

6

The dataset will now be created and you should see something like this.

Storage

Volumes Periodic Snapshot Tasks Replication Tasks Scrubs Snapshots VMware-Snapshot

Volume Manager Import Disk Import Volume View Disks

Name	Used	Available
▲ Tank1	1.9 GiB (0%)	29.0 TiB
▲ Tank1	1.4 GiB (0%)	20.0 TiB
Media	33.4 MiB (0%)	20.0 TiB
NightlyBackup	204.8 KiB (0%)	20.0 TiB
TestShare	33.4 MiB (0%)	20.0 TiB
▲ jails	1013.3 MiB (0%)	20.0 TiB
jails/.warden-template-pluginjail	605.6 MiB (0%)	20.0 TiB
jails/plexmediaserver_1	407.5 MiB (0%)	20.0 TiB

Remain on this screen and select the newly created dataset (1) if it is not selected already (in Fester's case this was NightlyBackup).

Now click on the change permissions button (2).

Storage

Volumes Periodic Snapshot Tasks Replication Tasks Scrubs Snapshots VMware-Snapshot

Volume Manager Import Disk Import Volume View Disks

Name	Used	Available
▲ Tank1	1.9 GiB (0%)	29.0 TiB
▲ Tank1	1.4 GiB (0%)	20.0 TiB
Media 1	33.4 MiB (0%)	20.0 TiB
NightlyBackup	204.8 KiB (0%)	20.0 TiB
TestShare	33.4 MiB (0%)	20.0 TiB
▲ jails	1013.3 MiB (0%)	20.0 TiB
jails/.warden-template-pluginjail	605.6 MiB (0%)	20.0 TiB
jails/plexmediaserver_1	407.5 MiB (0%)	20.0 TiB

2

Change Permissions



A new window will pop up for changing the permissions of the new dataset.

I did not need to change any of the settings from their default value (1).

Now click the “Change” button (2).

Do not set the user and group to any of those you use for shares. This would be unwise. Only the **root** user and **wheel** group should be allowed to access this particular share.

Change permission

Change permission on /mnt/Tank1/NightlyBackup to:

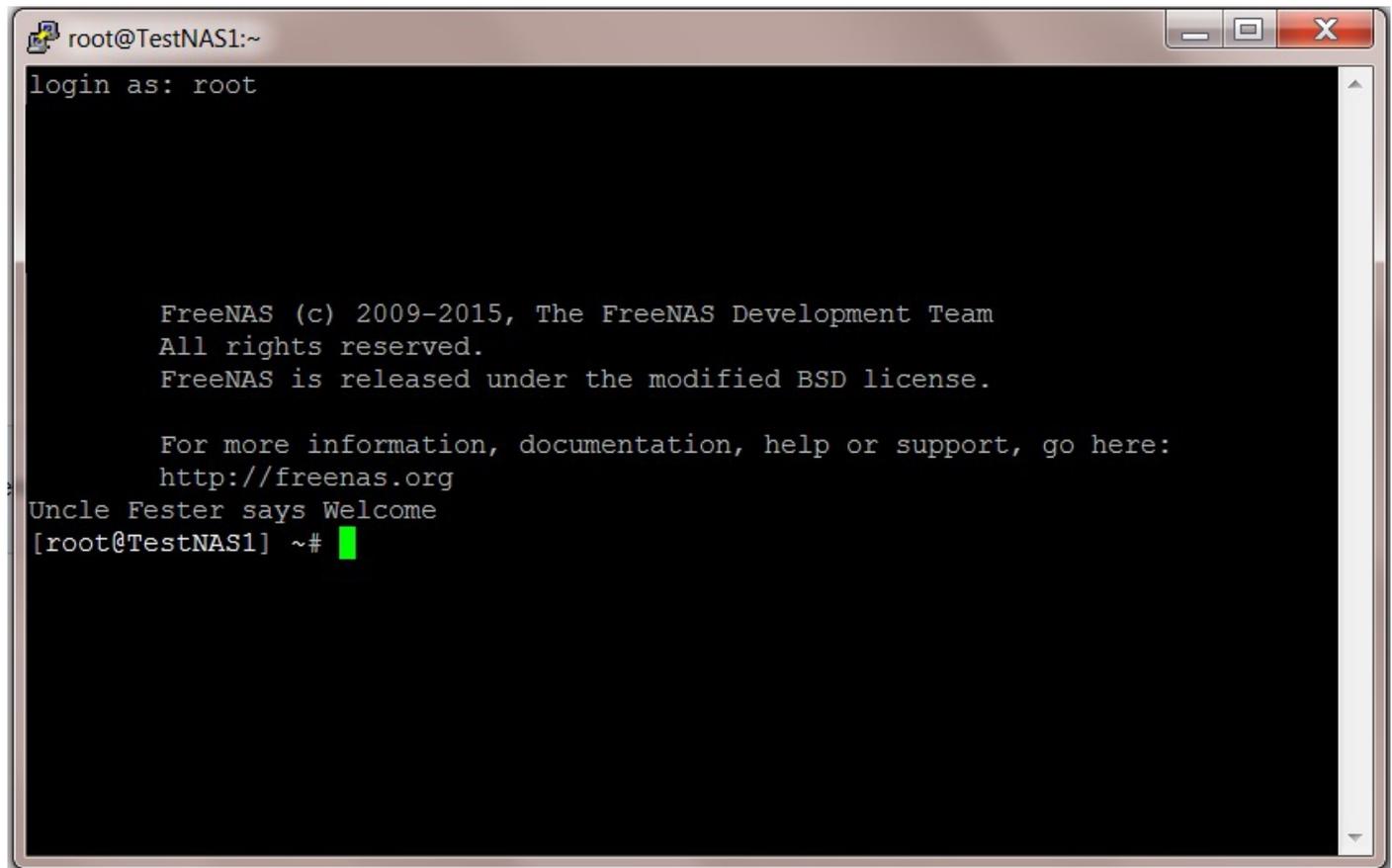
Apply Owner (user):	<input checked="" type="checkbox"/>																
Owner (user):	root																
Apply Owner (group):	<input checked="" type="checkbox"/>																
Owner (group):	wheel																
Apply Mode:	<input checked="" type="checkbox"/>																
Mode:	1																
Permission Type:	<table border="0"><thead><tr><th></th><th>Owner</th><th>Group</th><th>Other</th></tr></thead><tbody><tr><td>Read</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Write</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Execute</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr></tbody></table> <ul style="list-style-type: none"><input type="radio"/> Unix<input type="radio"/> Mac<input checked="" type="radio"/> Windows		Owner	Group	Other	Read	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Write	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Execute	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Owner	Group	Other														
Read	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
Write	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>														
Execute	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
Set permission recursively:	<input type="checkbox"/>																

2

Creating the Script

We now need to create a file in the volume directory (in Fester's case this is Tank1).

Open up an SSH session in PuTTY and log in as the root user. You should see a screen something like this.

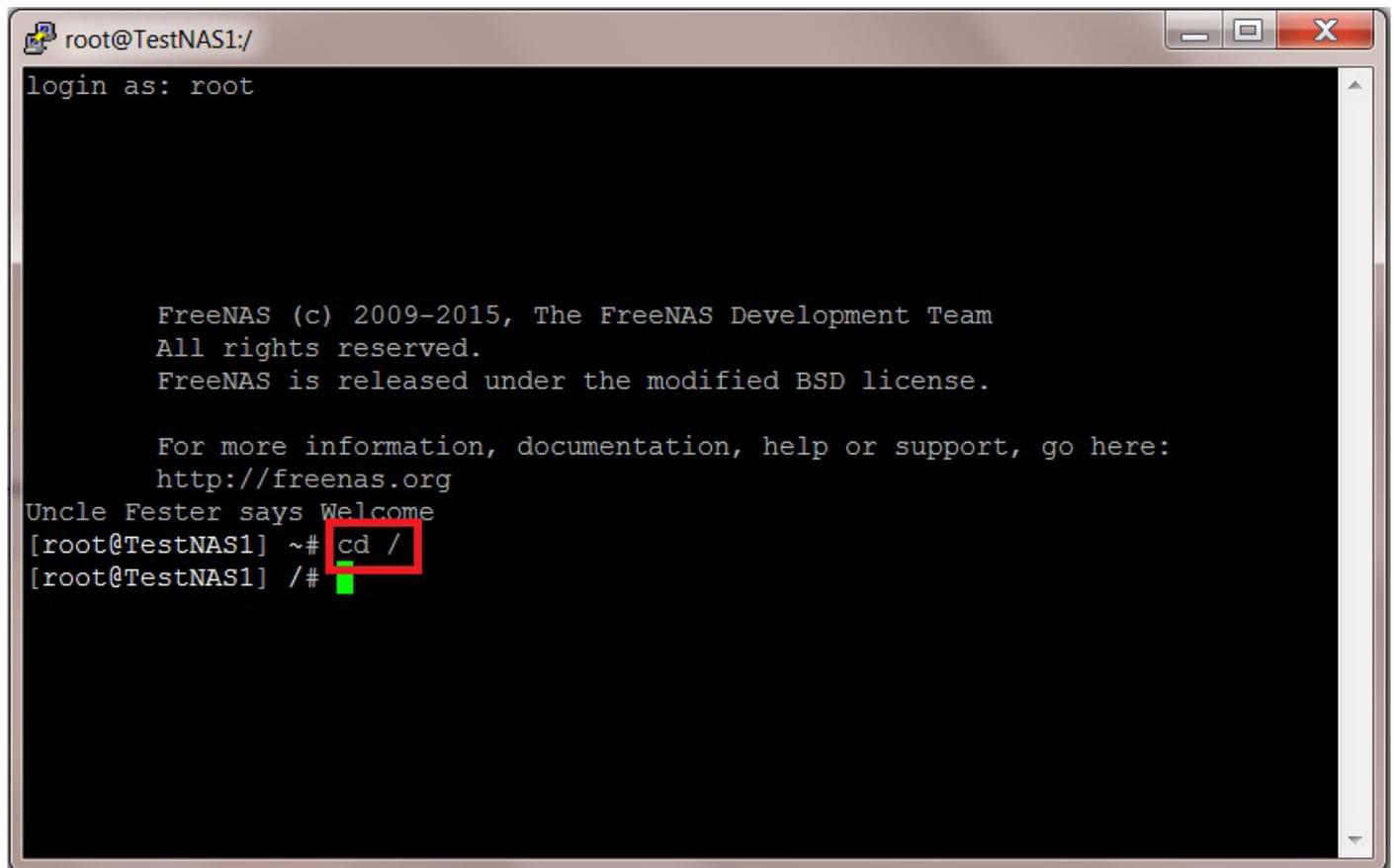
A terminal window titled 'root@TestNAS1:~' with standard window controls. The terminal output shows a login prompt 'login as: root', followed by the FreeNAS copyright notice: 'FreeNAS (c) 2009-2015, The FreeNAS Development Team. All rights reserved. FreeNAS is released under the modified BSD license.' Below this is a welcome message: 'For more information, documentation, help or support, go here: http://freenas.org. Uncle Fester says Welcome'. The prompt '[root@TestNAS1] ~#' is followed by a green cursor.

```
root@TestNAS1:~  
login as: root  
  
FreeNAS (c) 2009-2015, The FreeNAS Development Team  
All rights reserved.  
FreeNAS is released under the modified BSD license.  
  
For more information, documentation, help or support, go here:  
http://freenas.org  
Uncle Fester says Welcome  
[root@TestNAS1] ~# █
```

We now need to navigate to the volume directory by typing in the following command into the command prompt. Don't forget to hit the "Return/Enter" key to execute the command.

```
cd /
```

You should now see a screen something like this.

A terminal window titled 'root@TestNAS1:/' with standard window controls. The terminal output shows a login prompt 'login as: root' followed by a welcome message for FreeNAS (c) 2009-2015, The FreeNAS Development Team. The message includes copyright information, license details, and a link to the FreeNAS website. Below this, it says 'Uncle Fester says Welcome'. The prompt then changes to '[root@TestNAS1] ~#'. The user enters the command 'cd /', which is highlighted with a red box. The prompt then changes to '[root@TestNAS1] /#', with a green cursor visible at the end of the line.

```
root@TestNAS1:/
login as: root

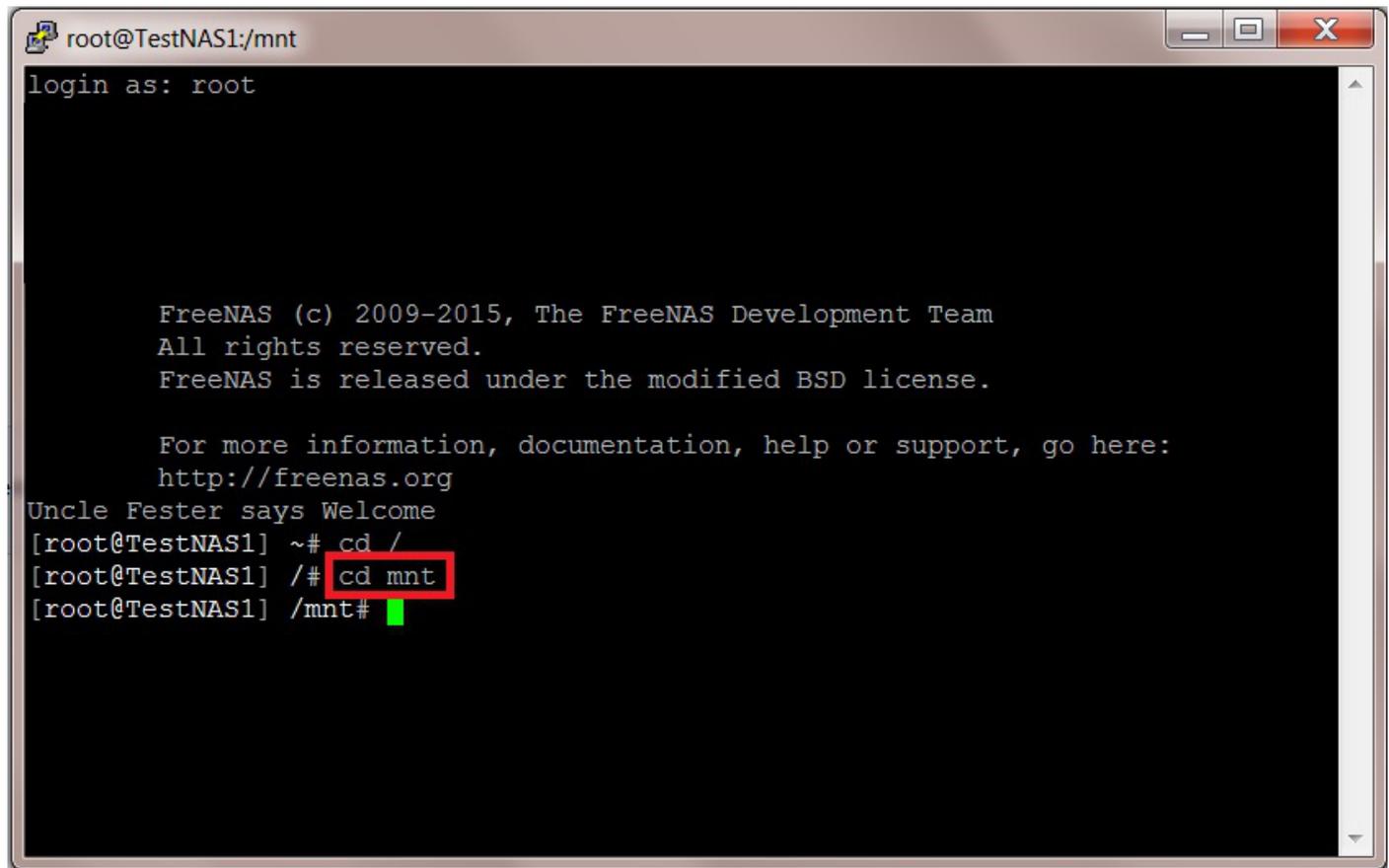
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FreeNAS is released under the modified BSD license.

For more information, documentation, help or support, go here:
http://freenas.org
Uncle Fester says Welcome
[root@TestNAS1] ~# cd /
[root@TestNAS1] /#
```

Now type into the command prompt the following command.

```
cd mnt
```

You should see a screen something like this.

A terminal window titled 'root@TestNAS1:/mnt' with standard window controls. The terminal output shows a login as root, followed by FreeNAS copyright information and a welcome message from 'Uncle Fester'. The user then enters 'cd /' and 'cd mnt', with the second command highlighted by a red box. A green cursor is visible at the end of the final prompt.

```
root@TestNAS1:/mnt
login as: root

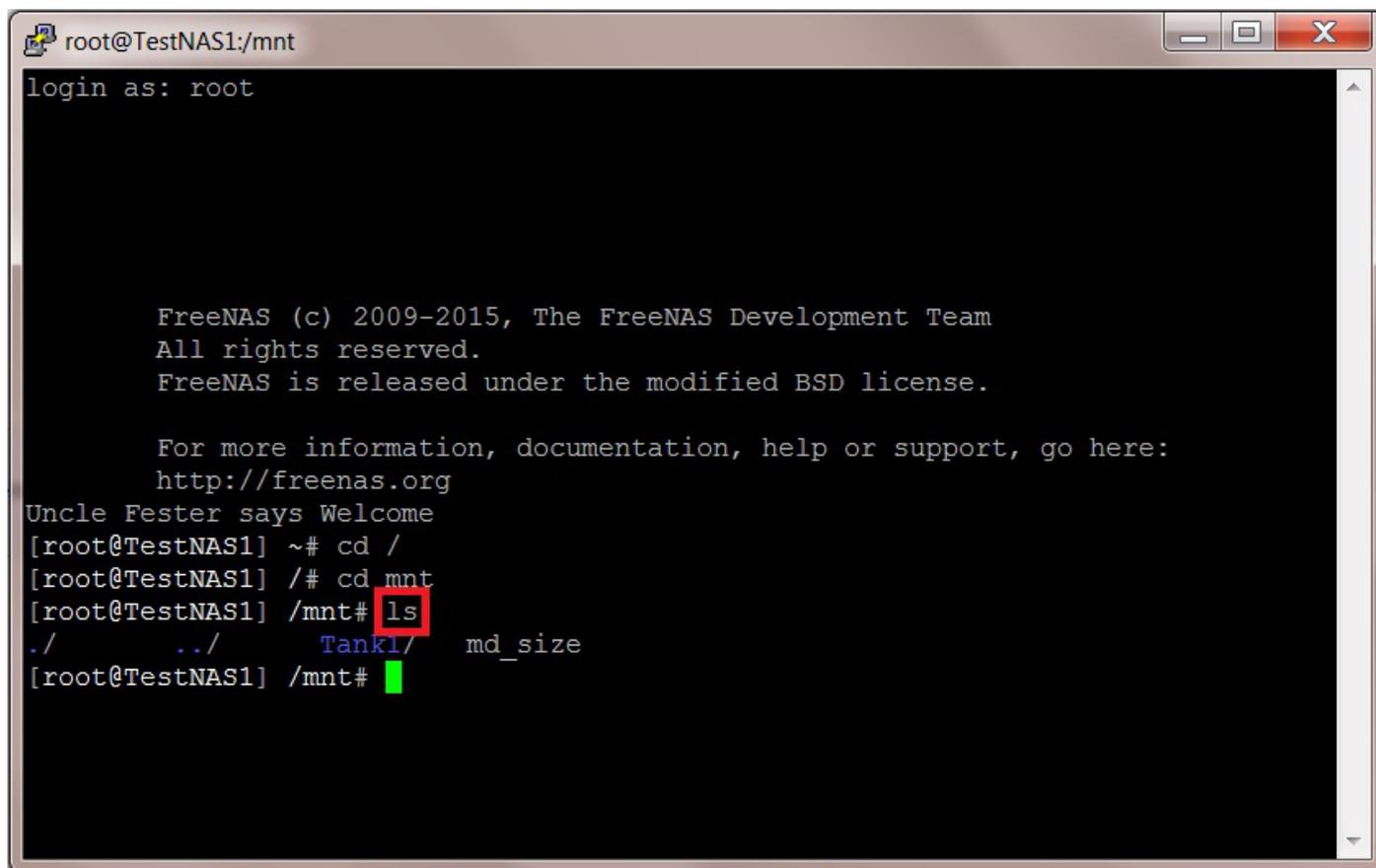
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FreeNAS is released under the modified BSD license.

For more information, documentation, help or support, go here:
http://freenas.org
Uncle Fester says Welcome
[root@TestNAS1] ~# cd /
[root@TestNAS1] /# cd mnt
[root@TestNAS1] /mnt#
```

Now type in the following command at the command prompt to see your volume's name.

```
ls
```

You should see a screen that looks something like this.



```
root@TestNAS1:/mnt
login as: root

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For more information, documentation, help or support, go here:
http://freenas.org
Uncle Fester says Welcome
[root@TestNAS1] ~# cd /
[root@TestNAS1] /# cd /mnt
[root@TestNAS1] /mnt# ls
./      ../      Tank1/  md_size
[root@TestNAS1] /mnt#
```

The name of the volume will be revealed at this point (in Fester's case it is the blue text "Tank1").

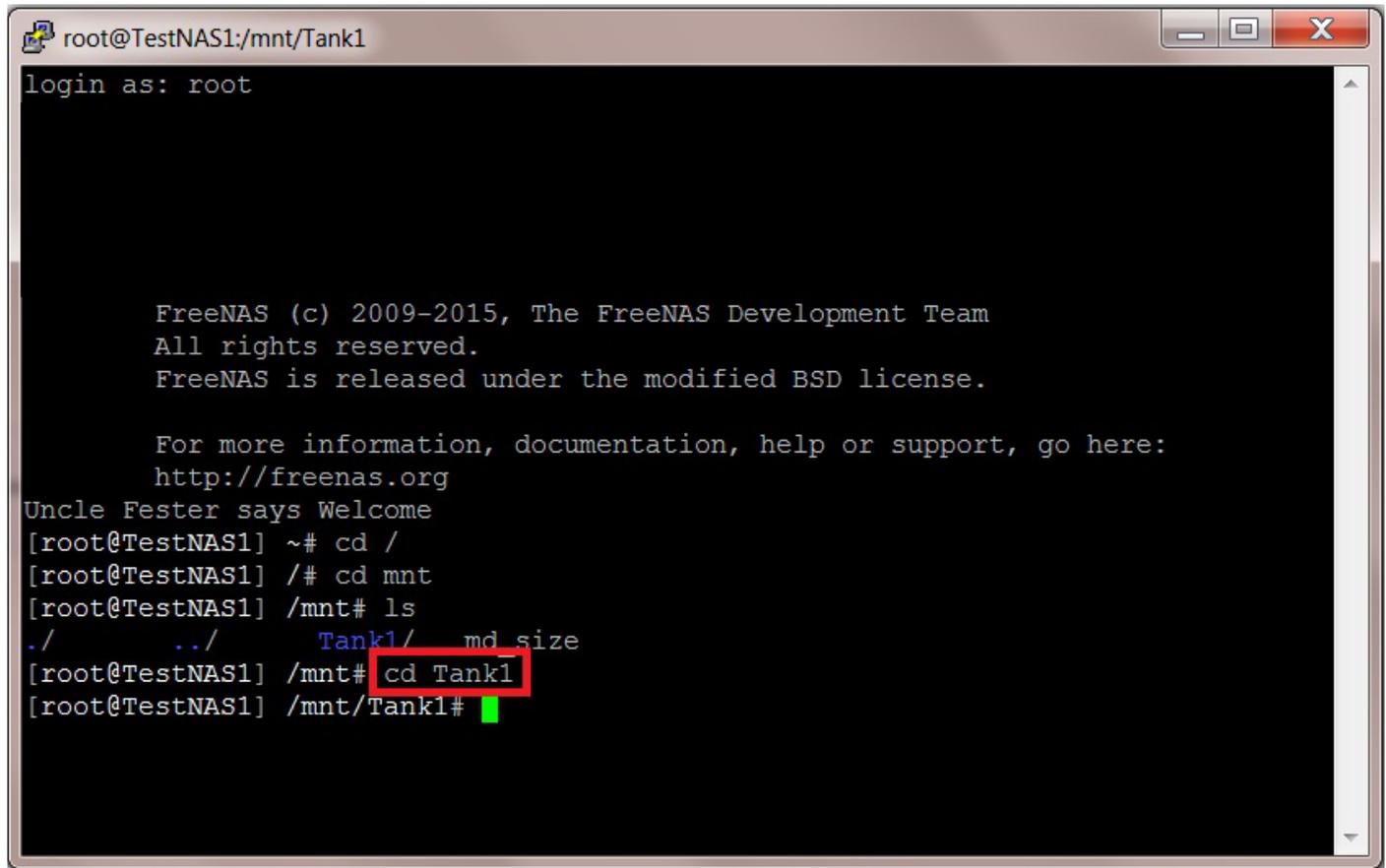
Now type into the command prompt the following command with your volume name. The volume name is case sensitive so make sure you observe this when typing in the command.

```
cd YourVolumeNameHere
```

In Fester's case the command would look like this:

```
cd Tank1
```

You should see a screen like this.

A terminal window titled 'root@TestNAS1:/mnt/Tank1' with standard window controls. The terminal output shows a login as root, followed by FreeNAS copyright information and a welcome message from 'Uncle Fester'. The user then navigates through the directory structure: from the root directory to /mnt, and finally to /mnt/Tank1. The command 'cd Tank1' is highlighted with a red box. The prompt at the end is a green cursor.

```
root@TestNAS1:/mnt/Tank1
login as: root

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http://freenas.org
Uncle Fester says Welcome
[root@TestNAS1] ~# cd /
[root@TestNAS1] /# cd mnt
[root@TestNAS1] /mnt# ls
./          ../          Tank1/      md          size
[root@TestNAS1] /mnt# cd Tank1
[root@TestNAS1] /mnt/Tank1#
```

We now need create an empty file in this directory. You can call this file anything you like but remember its name as you will need it later.

At the command prompt type the following command (1).

```
touch YourFileNameHere.sh
```

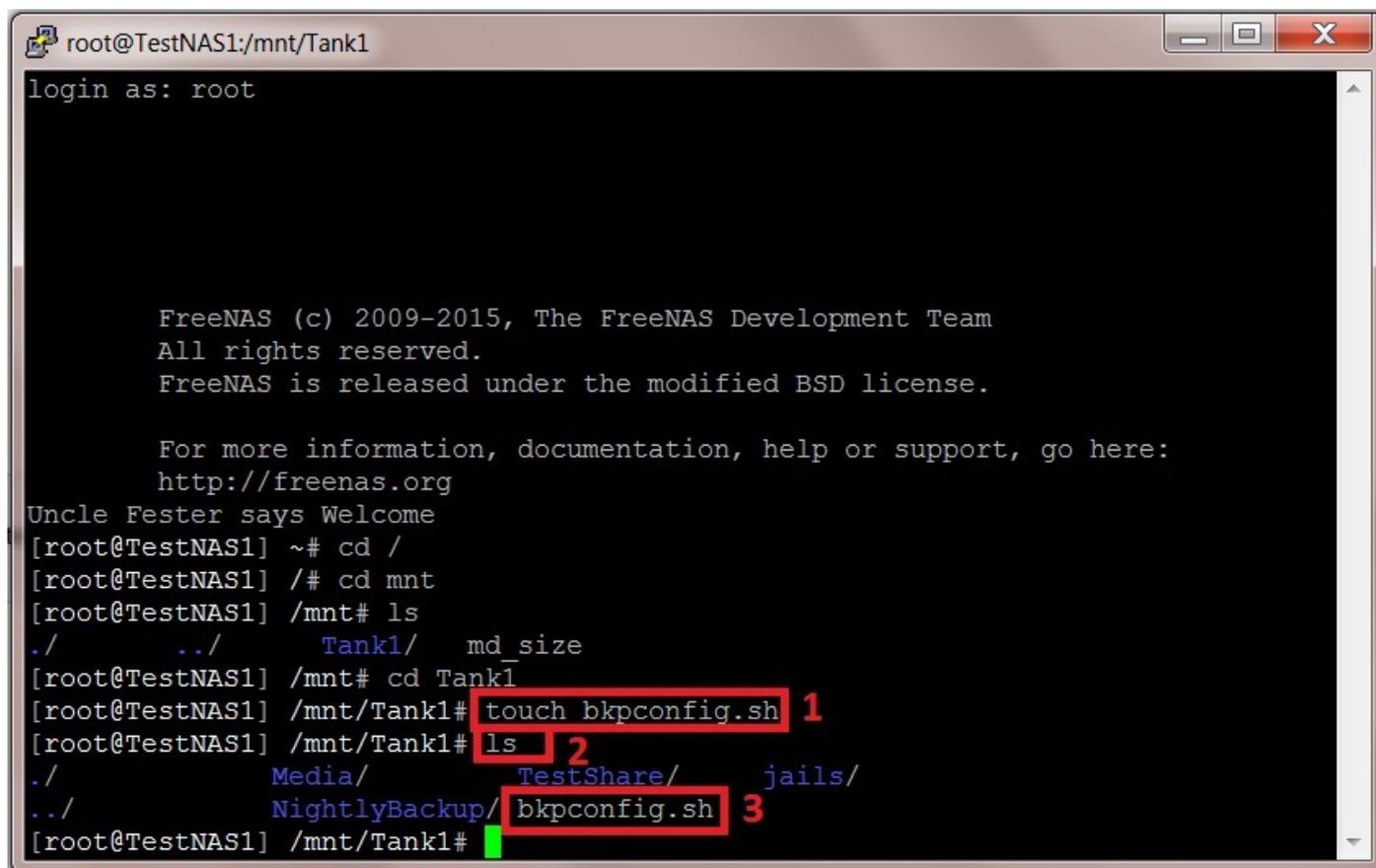
In Fester's case the command looked like this.

```
touch bkpconfig.sh
```

Now type in the following command to confirm the file was created (2).

```
ls
```

If all has gone well you should see the file listed in the SSH window (3).



```
root@TestNAS1:/mnt/Tank1
login as: root

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For more information, documentation, help or support, go here:
http://freenas.org

Uncle Fester says Welcome
[root@TestNAS1] ~# cd /
[root@TestNAS1] /# cd mnt
[root@TestNAS1] /mnt# ls
./      ../      Tank1/   md_size
[root@TestNAS1] /mnt# cd Tank1
[root@TestNAS1] /mnt/Tank1# touch bkpconfig.sh 1
[root@TestNAS1] /mnt/Tank1# ls 2
./      Media/   TestShare/  jails/
../     NightlyBackup/ bkpconfig.sh 3
[root@TestNAS1] /mnt/Tank1#
```

We now need to edit the file. At the command prompt type in the following command.

```
edit YourFileNameHere.sh
```

In Fester's case this command would look like this.

```
edit bkpconfig.sh
```

If all goes well you should see a screen like this.

```

root@TestNAS1:/mnt/Tank1
^[(escape) menu ^y search prompt ^k delete line ^p prev li ^g prev page
^o ascii code ^x search ^l undelete line ^n next li ^v next page
^u end of file ^a begin of line ^w delete word ^b back 1 char ^z next word
^t top of text ^e end of line ^r restore word ^f forward char
^c command ^d delete char ^j undelete char ESC-Enter: exit
====line 1 col 0 lines from top 1====
file "bkpconfig.sh", 1 lines

```

We now need to put in the text line that will run each evening when the Cron Job is activated.

Type into the edit window the following line of text (this is all one line).

```
cp /data/freenas-v1.db /mnt/YourVolumeNameHere/YourDatasetNameHere/`date +%Y%m%d`.db
```

So in Fester's case this command would look like this.

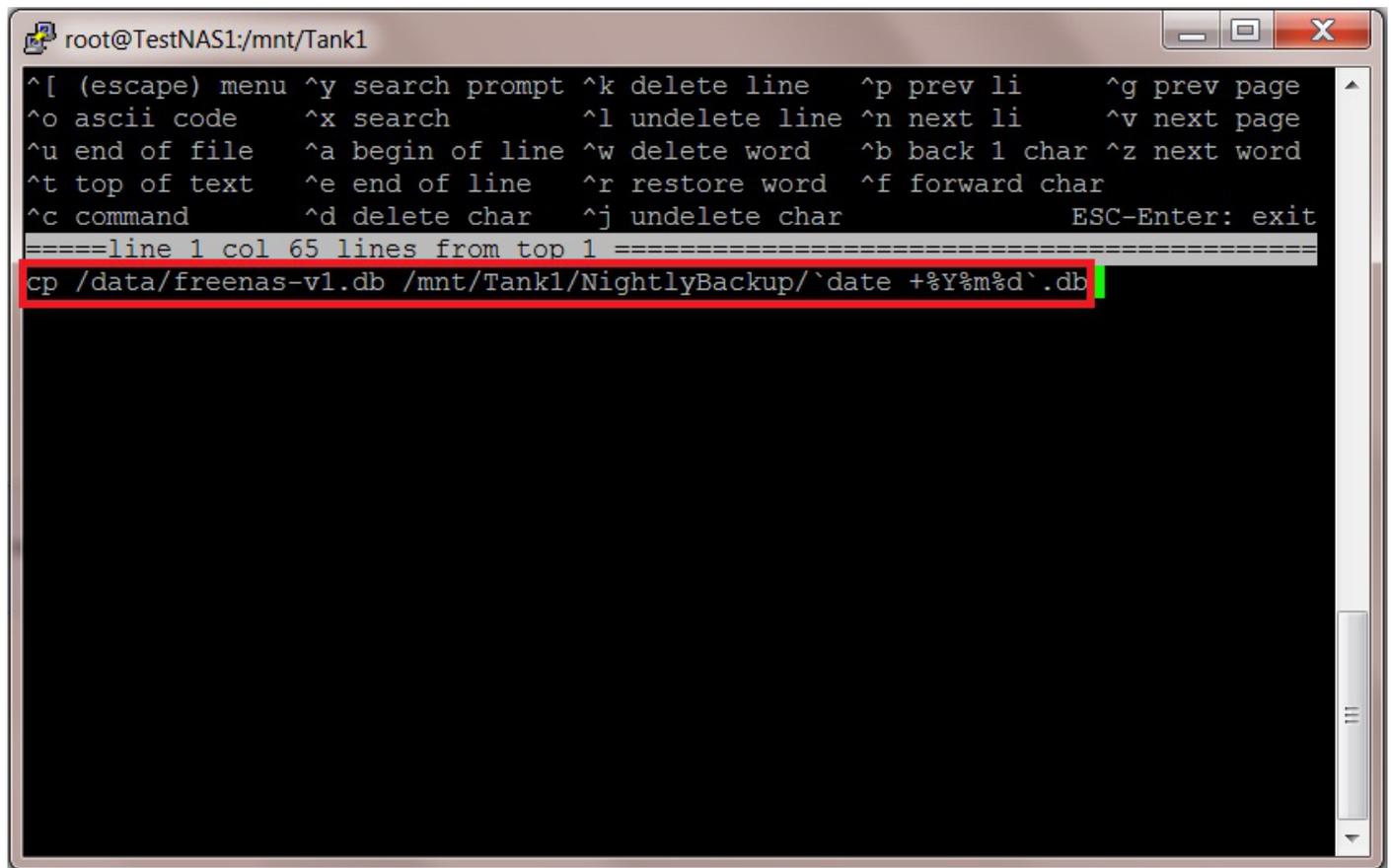
```
cp /data/freenas-v1.db /mnt/Tank1/NightlyBackup/`date +%Y%m%d`.db
```

If you want the FreeNAS version tagged on to the backup file names then use this command instead. This is all one one line; do not press the Enter key to insert a line break:

```
cp /data/freenas-v1.db /mnt/YourVolumeNameHere/YourDatasetNameHere
/.scripts/ConfigBackups/`date +%Y%m%d`_`cat /etc/version | cut -d'-' -f2`_`cat
/etc/version | cut -d'-' -f4`.db
```

(Please note the “`” character is not an apostrophe. This character on my keyboard is found at the top left hand side under the “Esc” key. Your keyboard may be different.)

When you are done the edit screen should look something like this.

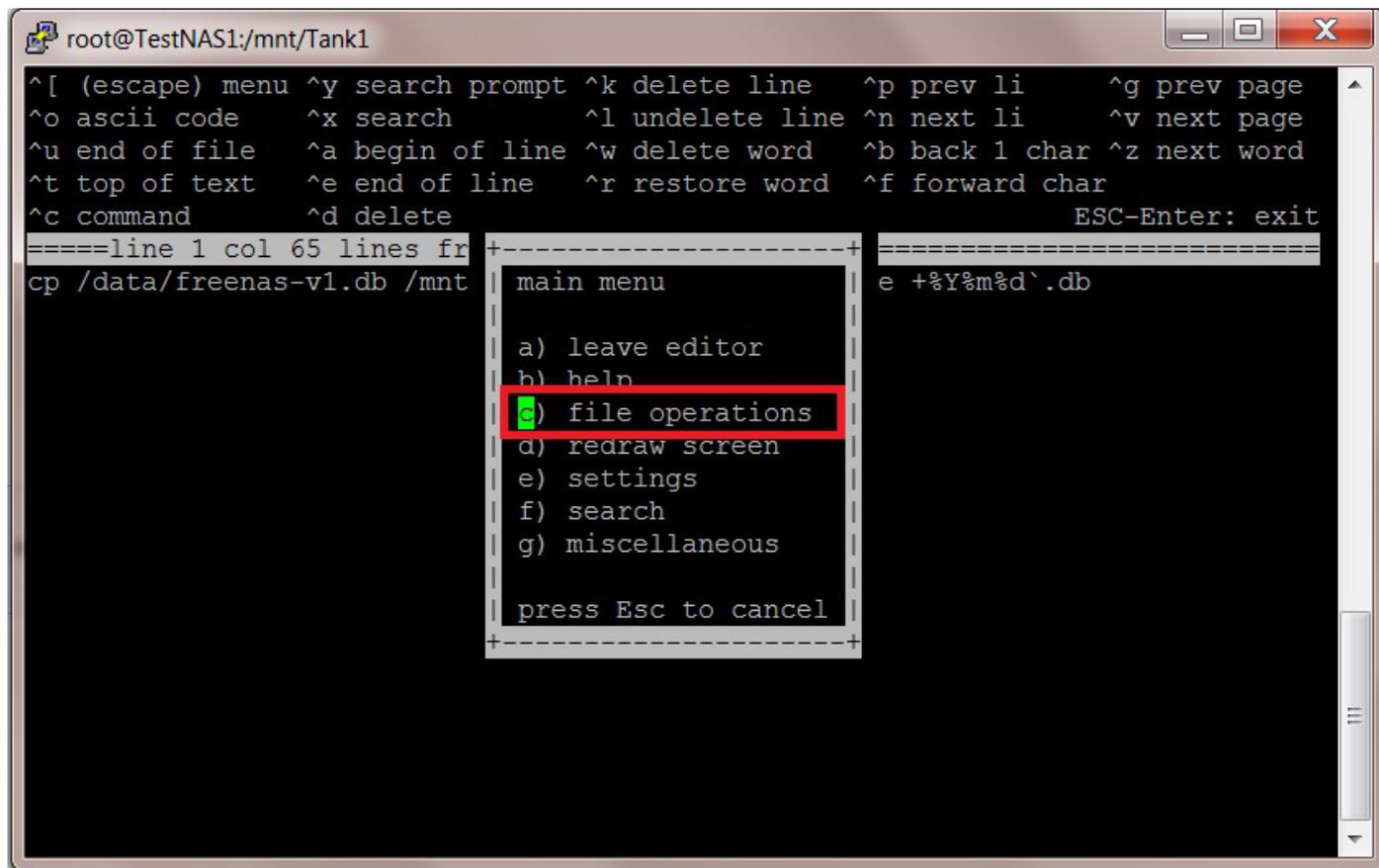


```
root@TestNAS1:/mnt/Tank1
^[] (escape) menu ^y search prompt ^k delete line ^p prev li ^g prev page
^o ascii code ^x search ^l undelete line ^n next li ^v next page
^u end of file ^a begin of line ^w delete word ^b back 1 char ^z next word
^t top of text ^e end of line ^r restore word ^f forward char
^c command ^d delete char ^j undelete char ESC-Enter: exit
=====line 1 col 65 lines from top 1 =====
cp /data/freenas-v1.db /mnt/Tank1/NightlyBackup/`date +%Y%m%d`.db
```

Now hit the “Esc” key.

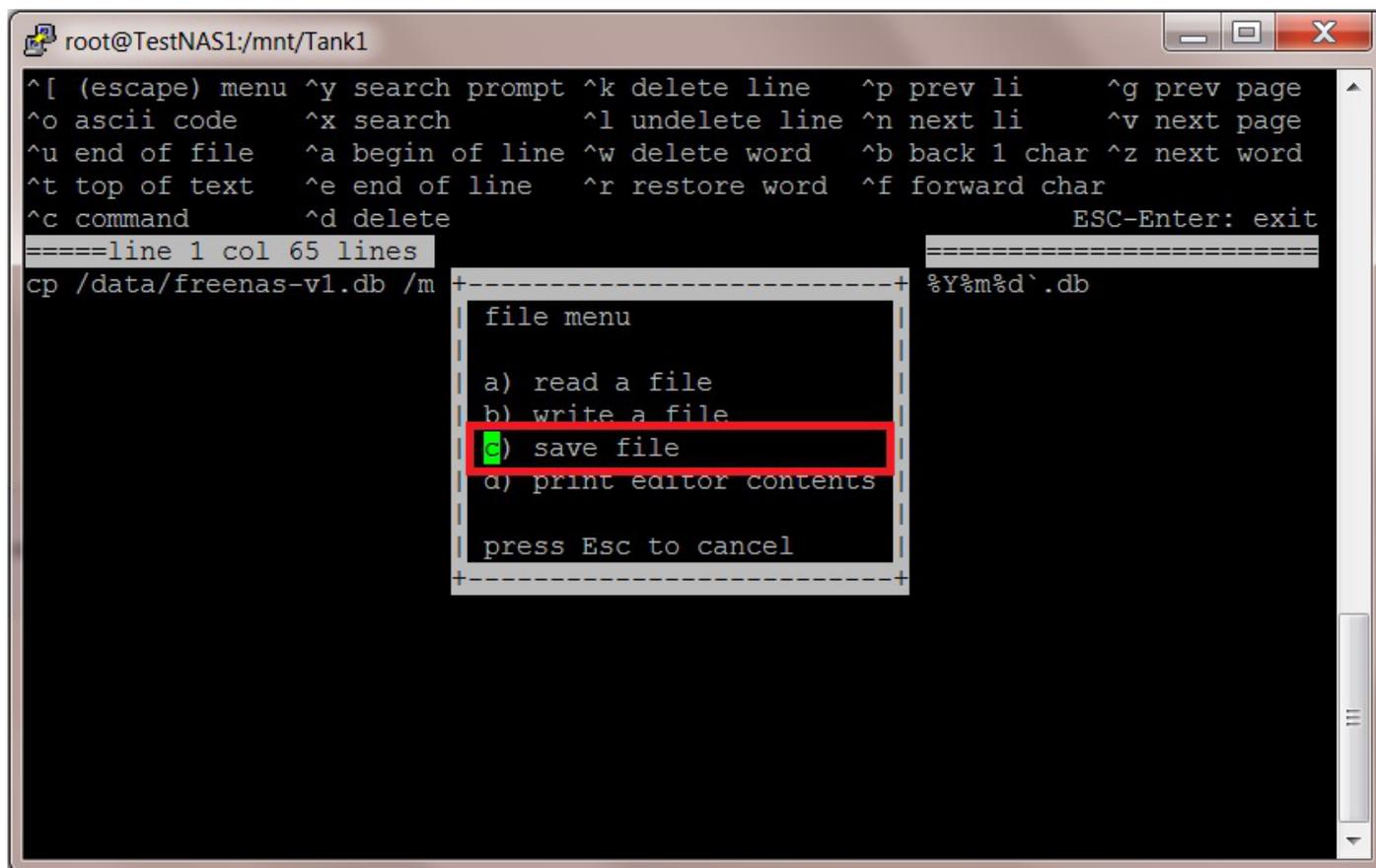
You should be presented with a series of options at this point.

Press the “c” key or navigate to the c option using the “↑ ↓” keys and press the “Return/Enter” key.



```
root@TestNAS1:/mnt/Tank1
^[(escape) menu ^y search prompt ^k delete line ^p prev li ^g prev page
^o ascii code ^x search ^l undelete line ^n next li ^v next page
^u end of file ^a begin of line ^w delete word ^b back 1 char ^z next word
^t top of text ^e end of line ^r restore word ^f forward char
^c command ^d delete ESC-Enter: exit
=====line 1 col 65 lines fr
cp /data/freenas-v1.db /mnt
main menu
a) leave editor
b) help
c) file operations
d) redraw screen
e) settings
f) search
g) miscellaneous
press Esc to cancel
e +%Y%m%d`.db
```

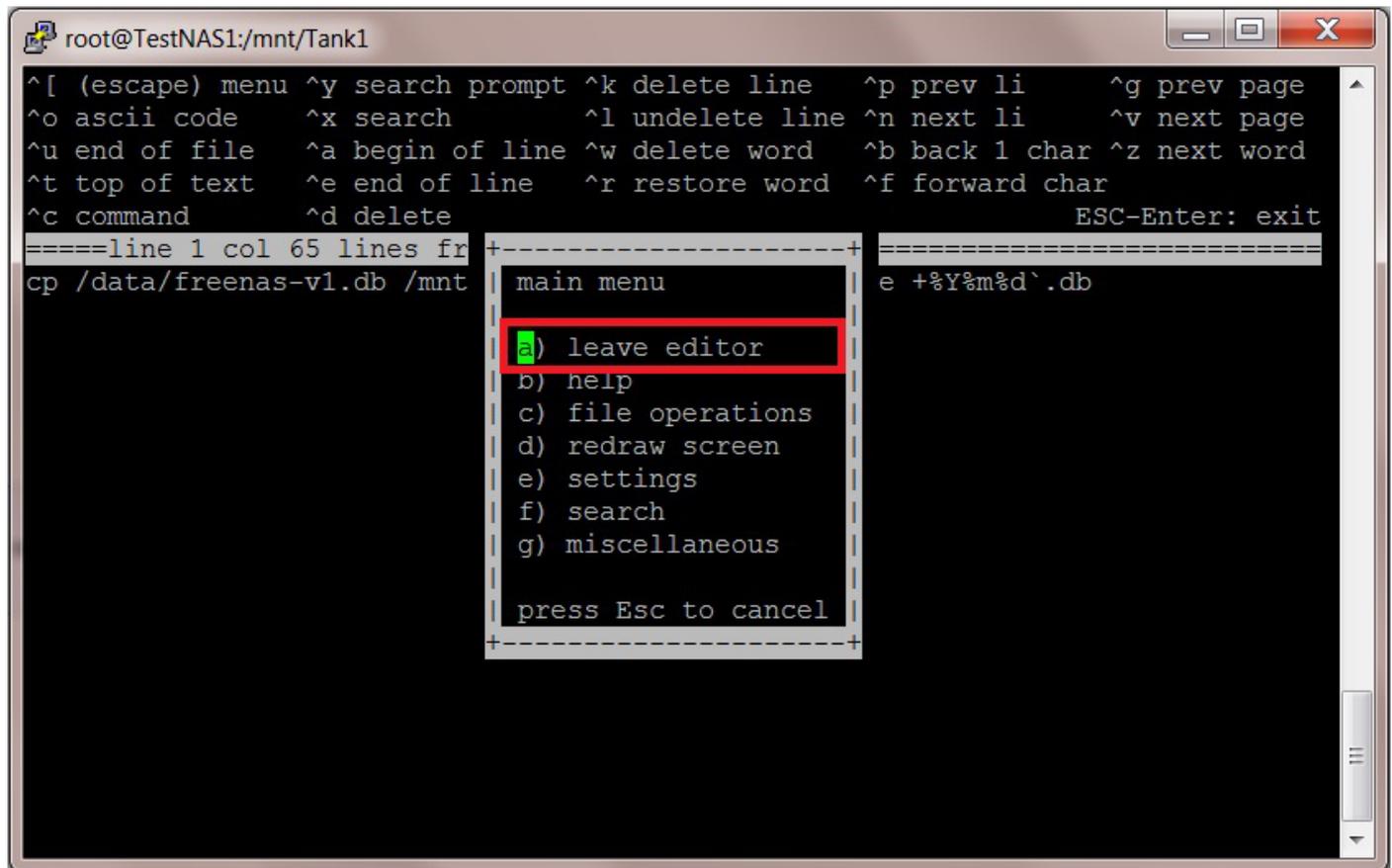
Now press the “c” key again or navigate to the c option using the “↑↓” keys and press the “Return/Enter” key.



The text line in the editor will now be saved to the file.

Press the “Esc” key again.

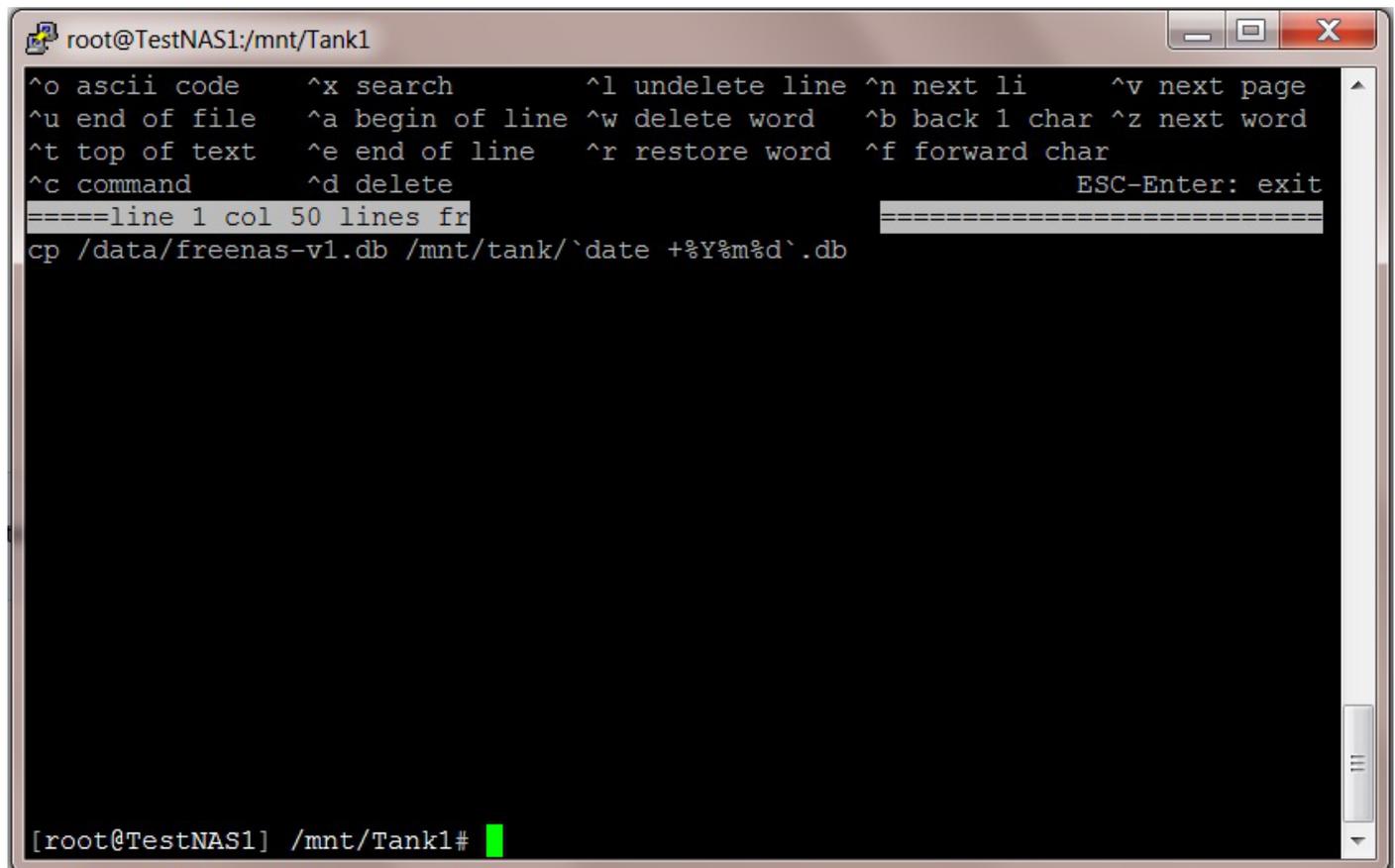
Now press the “a” key or navigate to the a option and press the “Return/Enter” key.

A terminal window titled 'root@TestNAS1:/mnt/Tank1' is shown. The terminal displays a list of keyboard shortcuts at the top, followed by a command prompt 'cp /data/freenas-v1.db /mnt'. A menu box is overlaid on the terminal, titled 'main menu'. The menu items are: 'a) leave editor' (highlighted with a red box), 'b) help', 'c) file operations', 'd) redraw screen', 'e) settings', 'f) search', and 'g) miscellaneous'. At the bottom of the menu box, it says 'press Esc to cancel'. The terminal background shows the command prompt and some text from the previous command.

```
root@TestNAS1:/mnt/Tank1
^[ (escape) menu ^y search prompt ^k delete line ^p prev li ^g prev page
^o ascii code ^x search ^l undelete line ^n next li ^v next page
^u end of file ^a begin of line ^w delete word ^b back 1 char ^z next word
^t top of text ^e end of line ^r restore word ^f forward char
^c command ^d delete ESC-Enter: exit
=====line 1 col 65 lines fr
cp /data/freenas-v1.db /mnt
main menu
a) leave editor
b) help
c) file operations
d) redraw screen
e) settings
f) search
g) miscellaneous
press Esc to cancel
e +%Y%m%d`.db
```

This will take you out of the editor and return the command prompt.

You should see a screen something like this.



```
root@TestNAS1:/mnt/Tank1
^o ascii code      ^x search          ^l undelete line  ^n next li        ^v next page
^u end of file     ^a begin of line  ^w delete word    ^b back 1 char   ^z next word
^t top of text     ^e end of line    ^r restore word   ^f forward char
^c command         ^d delete
                                     ESC-Enter: exit
====line 1 col 50 lines fr
cp /data/freenas-v1.db /mnt/tank/`date +%Y%m%d`.db

[root@TestNAS1] /mnt/Tank1#
```

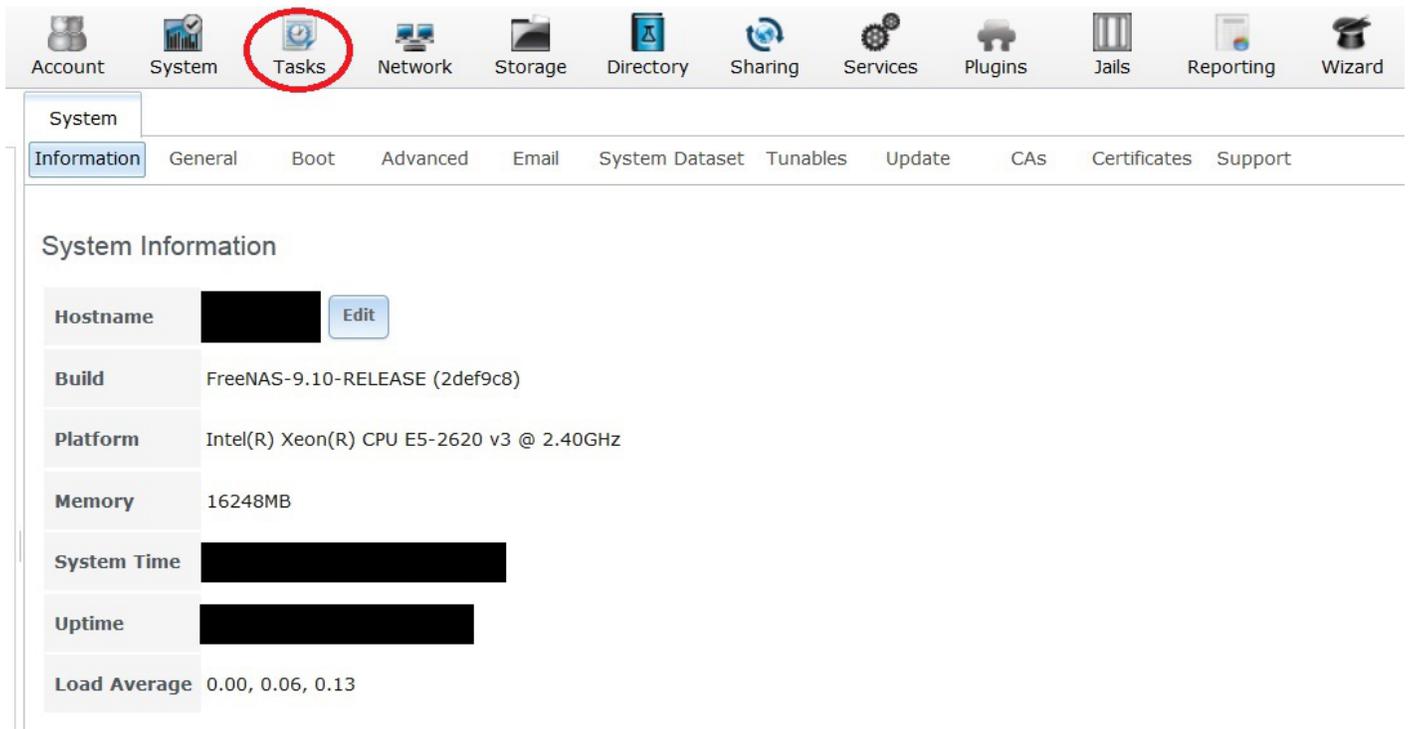
Now type the following command to leave the SSH console.

```
exit
```

Creating the Cron Job

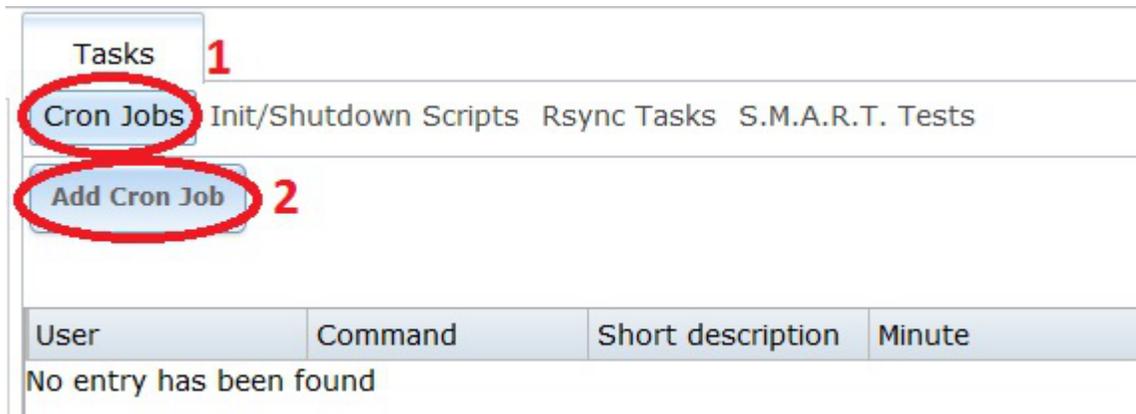
Now go to the FreeNAS GUI and log in if needed.

Go to the “Tasks” page.



Click on the “Cron Jobs” button (1) if it is not selected already.

Now click on the “Add Cron Job” button (2).



A new window will pop up that should allow you to configure the Cron job.

In the “User:” drop down selection box (1) chose root as the user.

In the “Command:” text box (2) type in the following command.

```
sh /mnt/YourVolumeNameHere/bkpconfig.sh
```

So in Fester’s case this would look like this.

```
sh /mnt/Tank1/bkpconfig.sh
```

In the “Short description:” text box (3) give the Cron job a meaningful name.

Fester wants this Cron job to run every day, of every month at midnight (if you run this Cron job at midnight while repeating a special incantation that only certain SysAdmin's know it will give your FreeNAS system the ability emulate a Sinclair ZX Spectrum when there is a full moon!).

To run the Cron job every day at midnight set the "Each selected minute" setting of the "Minute:" section to 00 (4).

Set the "Each selected hour" of the "Hour:" section to 00 (5).

The screenshot shows a cron job configuration interface with the following fields and settings:

- User:** root
- Command:** sh /mnt/Tank1/bkpconfig.sh
- Short description:** Nightly backup of config file.
- Minute:** "Each selected minute" is selected. A grid of minutes from 00 to 53 is shown, with 00 highlighted in red.
- Hour:** "Each selected hour" is selected. A grid of hours from 00 to 23 is shown, with 00 highlighted in red.

Now scroll down.

In the "Every N day of month" setting of the "Day of month:" section set this to 1 (6).

Put a tick next to every month in the "Month:" section (7).

The screenshot shows a configuration window for a cron job. The 'Day of month' section has two radio buttons: 'Every N day of month' (selected) and 'Each selected day of month'. Below these is a horizontal slider with a dropdown arrow on the left and a right-pointing arrow on the right. The number '6' is positioned to the left of the slider, and the number '1' is inside the slider's range, highlighted with a red square. The 'Month:' section is below, with a red '7' to its left. A red rectangle highlights a list of months, each with a checked checkbox: January, February, March, April, May, June, July, August, September, October, November, and December.

Now scroll down.

Put a tick next to every day in the "Day of week:" section (8).

Fester leaves the "Redirect Stdout:" and "Redirect Stderr:" at their default values as I don't know what they do. The "Enabled:" tick box needs to be ticked (9).

Now click the "OK" button (10).

Month:

- May
- June
- July
- August
- September
- October
- November
- December

Day of week: 8

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday
- Sunday

Redirect Stdout: *i*

Redirect Stderr: 9 *i*

Enabled: 10

If all goes well you should see an entry for the newly created Cron job. It should look something like this.

Tasks

Cron Jobs [Init/Shutdown Scripts](#) [Rsync Tasks](#) [S.M.A.R.T. Tests](#)

[Add Cron Job](#)

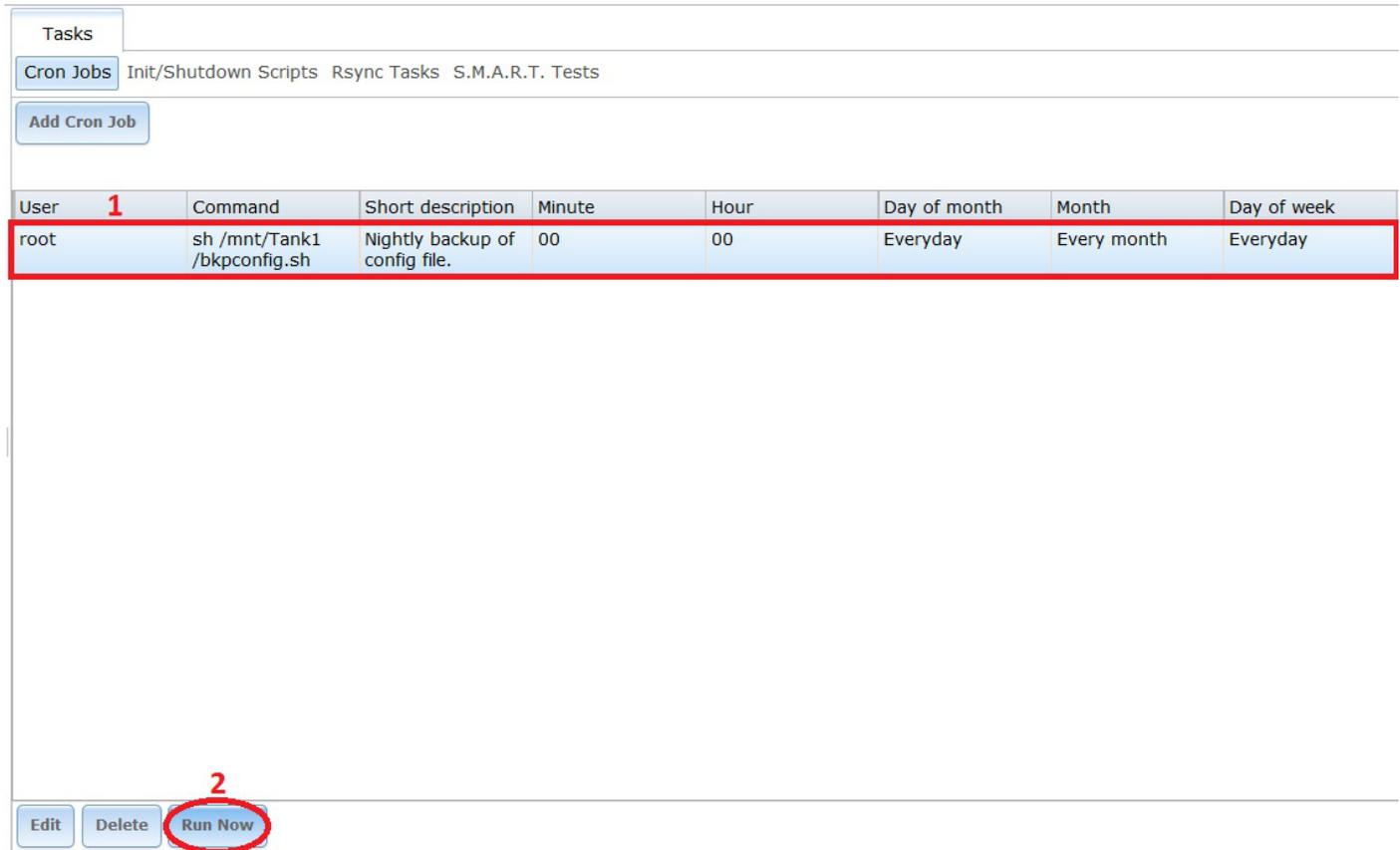
User	Command	Short description	Minute	Hour	Day of month	Month	Day of week
root	sh /mnt/Tank1 /bkpconfig.sh	Nightly backup of config file.	00	00	Everyday	Every month	Everyday

Testing the Cron Job

We now need to test that the Cron job actually works.

Select the newly created Cron job by clicking on it (it will turn blue when selected) (1).

Now click the “Run Now” button (2).



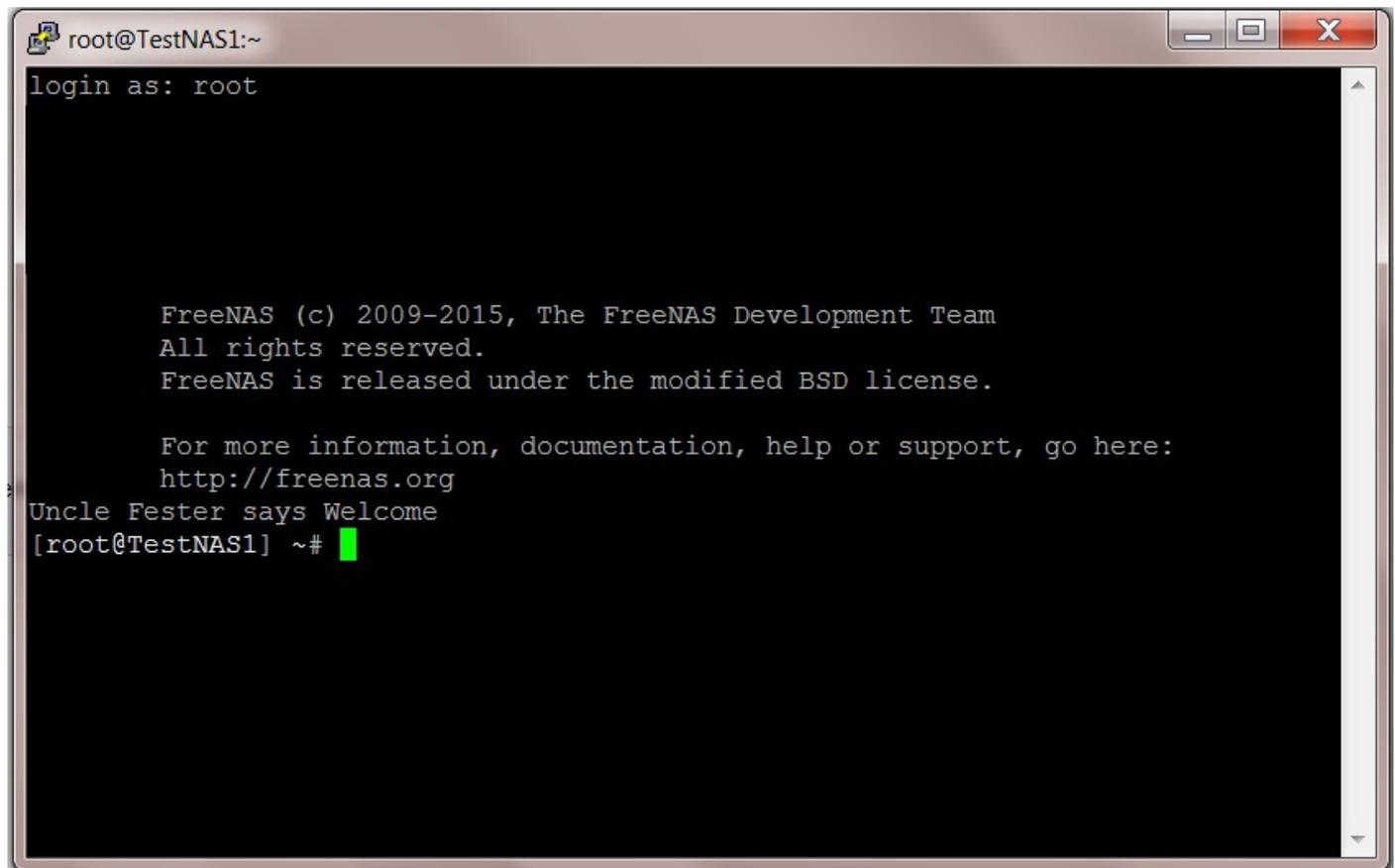
The screenshot shows the FreeNAS Cron Jobs management interface. At the top, there are tabs for 'Tasks', 'Cron Jobs', 'Init/Shutdown Scripts', 'Rsync Tasks', and 'S.M.A.R.T. Tests'. Below the tabs is an 'Add Cron Job' button. The main area contains a table with the following data:

User	Command	Short description	Minute	Hour	Day of month	Month	Day of week
root	sh /mnt/Tank1 /bkpconfig.sh	Nightly backup of config file.	00	00	Everyday	Every month	Everyday

At the bottom of the table, there are three buttons: 'Edit', 'Delete', and 'Run Now'. The 'Run Now' button is circled in red, and a red '2' is placed above it.

If this worked then a file should have been created in the dataset you made for this (in Fester’s case this was the “NightlyBackup” data set). We now need to go and check the file was created.

Open up an SSH session in PuTTY and log in as the root user. You should see a screen something like this.

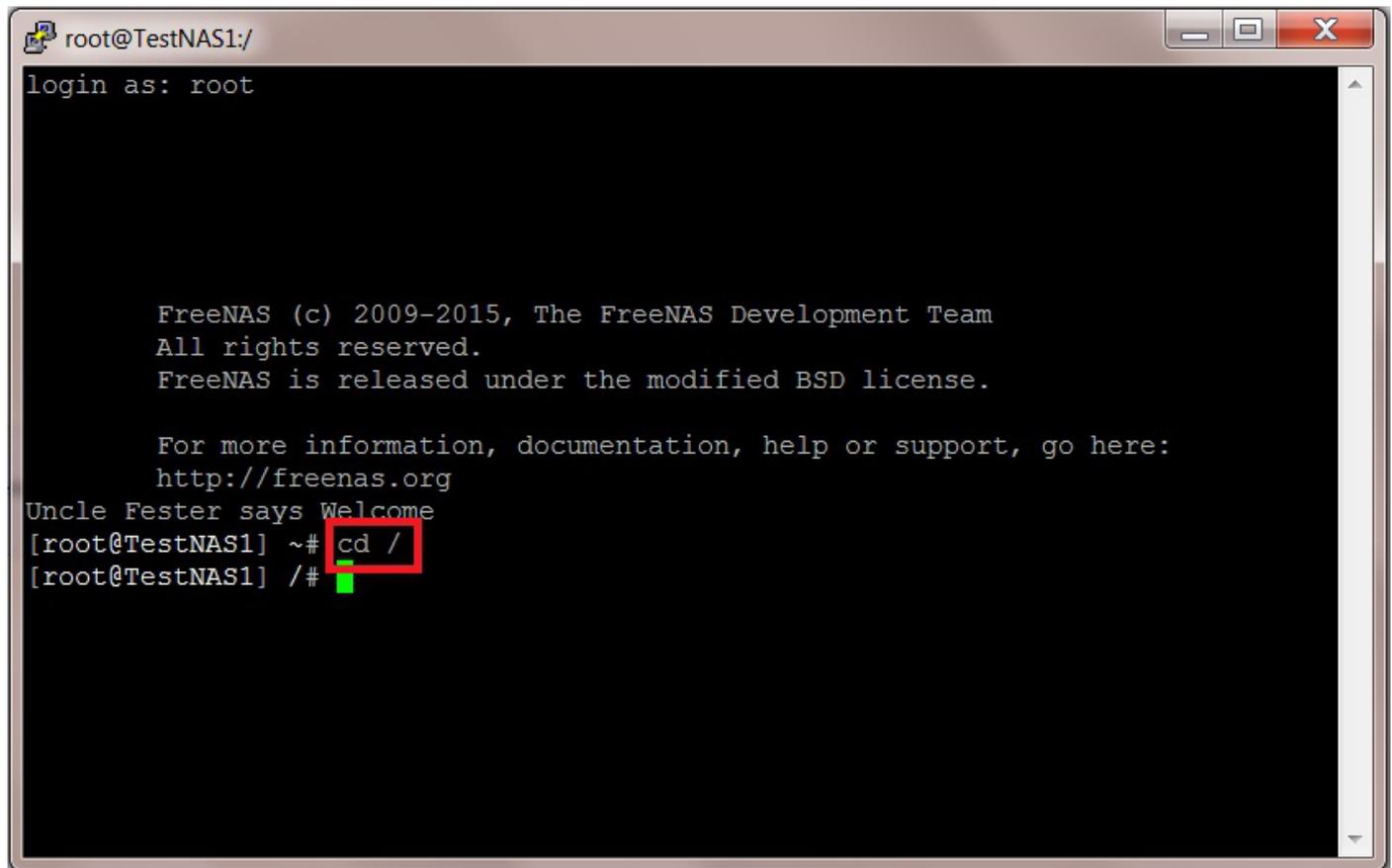
A terminal window titled 'root@TestNAS1:~' with standard window controls. The terminal output shows a login prompt 'login as: root', followed by a blank line, then the FreeNAS copyright notice: 'FreeNAS (c) 2009-2015, The FreeNAS Development Team', 'All rights reserved.', and 'FreeNAS is released under the modified BSD license.'. Below this is a message: 'For more information, documentation, help or support, go here:', followed by the URL 'http://freenas.org'. The next line says 'Uncle Fester says Welcome'. The final line is the shell prompt '[root@TestNAS1] ~#' with a green cursor block.

```
root@TestNAS1:~  
login as: root  
  
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For more information, documentation, help or support, go here:  
http://freenas.org  
Uncle Fester says Welcome  
[root@TestNAS1] ~# █
```

We now need to navigate to the dataset you created to hold the nightly backups by typing in the following command into the command prompt. Don't forget to hit the "Return/Enter" key to execute the command.

```
cd /
```

You should now see a screen something like this.

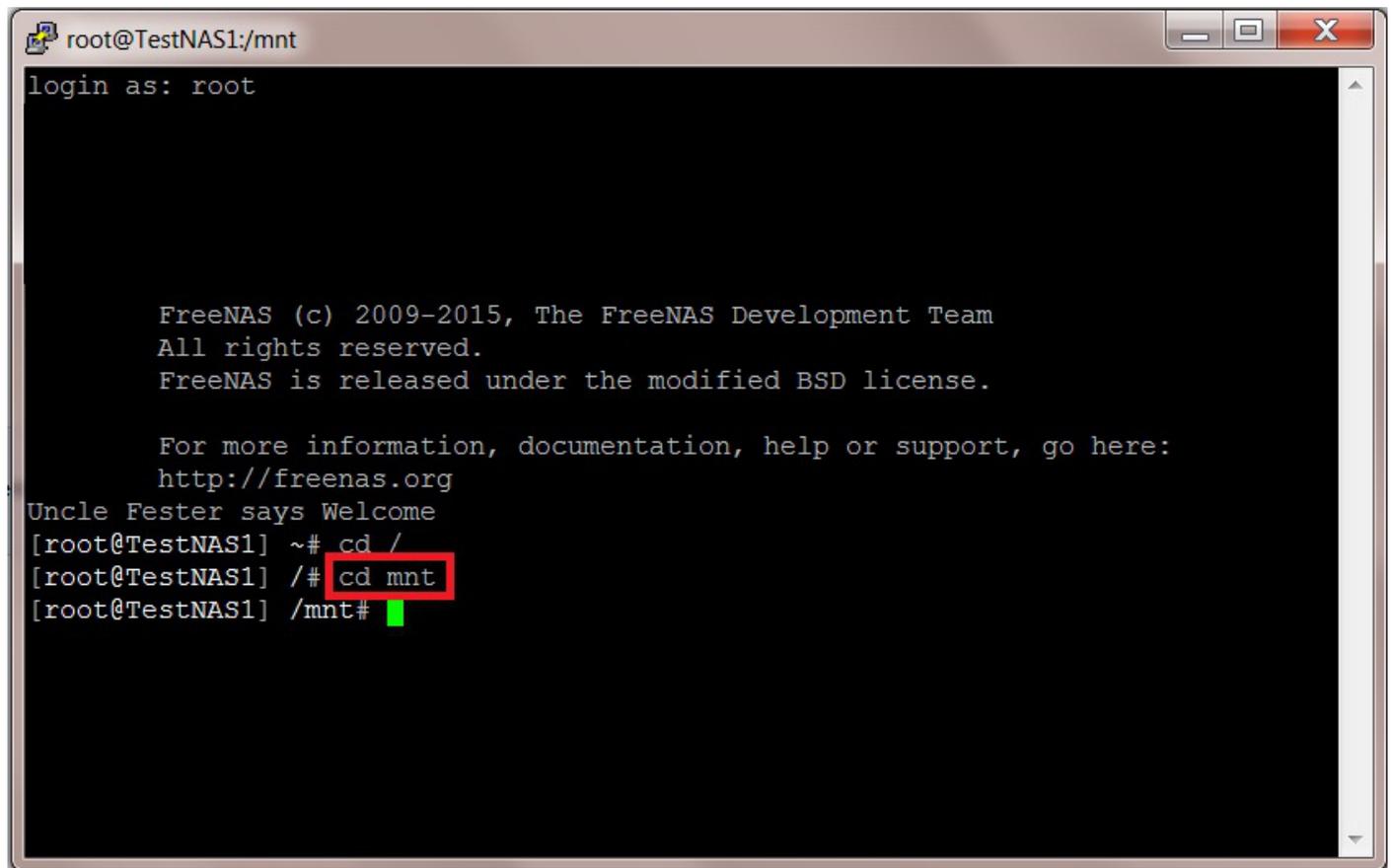
A terminal window titled 'root@TestNAS1:/' with standard window controls. The terminal shows a login prompt 'login as: root' followed by a blank line. Then, it displays the FreeNAS copyright notice: 'FreeNAS (c) 2009-2015, The FreeNAS Development Team', 'All rights reserved.', and 'FreeNAS is released under the modified BSD license.' Below this is a message: 'For more information, documentation, help or support, go here: http://freenas.org' and 'Uncle Fester says Welcome'. The prompt '[root@TestNAS1] ~#' is followed by the command 'cd /' which is highlighted with a red box. The next line shows the prompt '[root@TestNAS1] /#' with a green cursor.

```
root@TestNAS1:/  
login as: root  
  
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For more information, documentation, help or support, go here:  
http://freenas.org  
Uncle Fester says Welcome  
[root@TestNAS1] ~# cd /  
[root@TestNAS1] /#
```

Now type into the command prompt the following command.

```
cd mnt
```

You should see a screen something like this.



```
root@TestNAS1:/mnt
login as: root

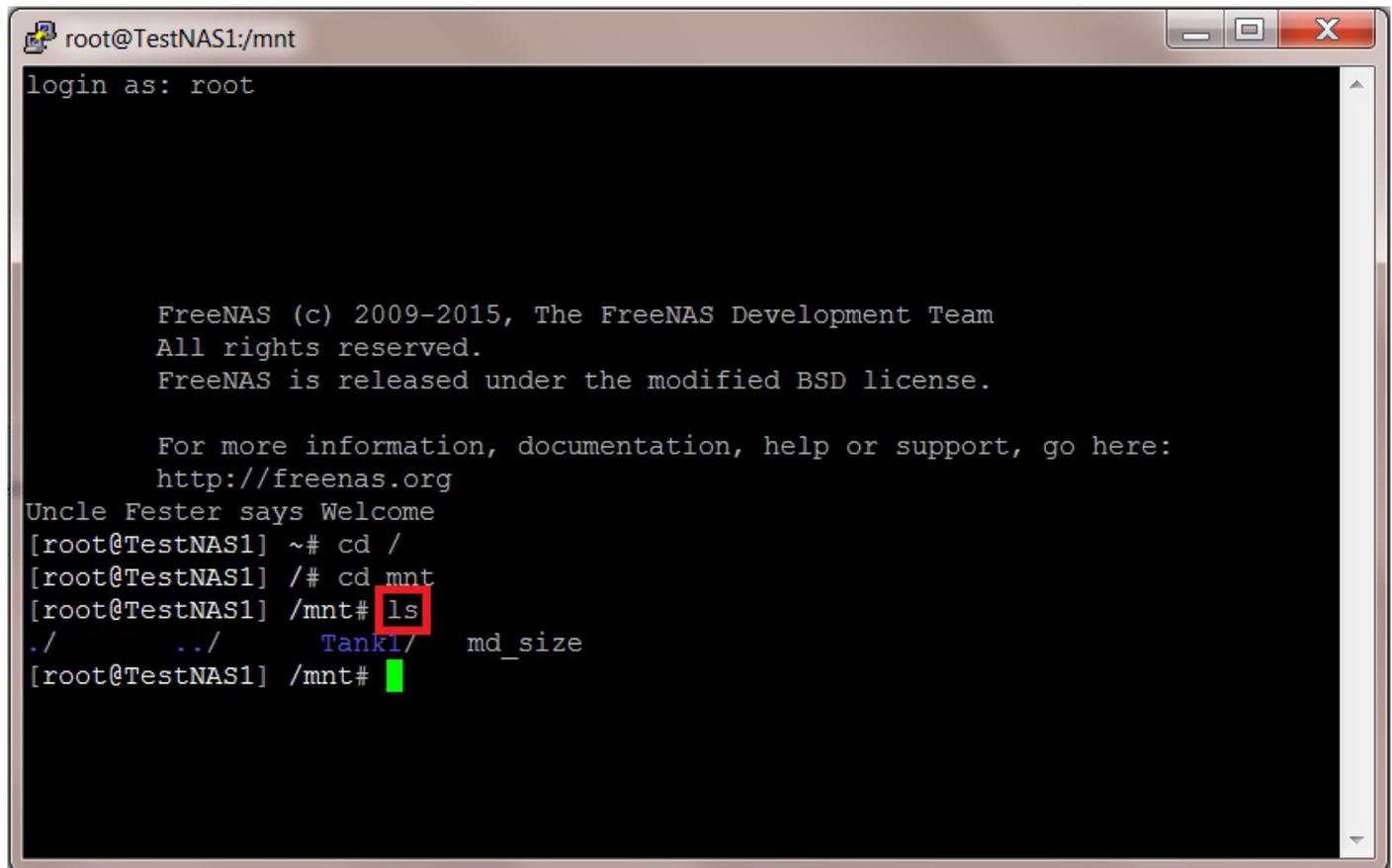
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Uncle Fester says Welcome
[root@TestNAS1] ~# cd /
[root@TestNAS1] /# cd mnt
[root@TestNAS1] /mnt#
```

Now type in the following command at the command prompt to see your volume's name.

```
ls
```

You should see a screen that looks something like this.

A terminal window titled 'root@TestNAS1:/mnt' with standard window controls. The terminal output shows a login as 'root', followed by FreeNAS copyright information and a welcome message from 'Uncle Fester'. The user navigates to the root directory and then to the '/mnt' directory. The 'ls' command is executed, showing a directory named 'Tank1' in blue text. The terminal prompt returns to '/mnt#'.

```
root@TestNAS1:/mnt
login as: root

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Uncle Fester says Welcome
[root@TestNAS1] ~# cd /
[root@TestNAS1] /# cd /mnt
[root@TestNAS1] /mnt# ls
./          ../          Tank1/      md_size
[root@TestNAS1] /mnt#
```

The name of the volume will be revealed at this point (in Fester's case it is the blue text "Tank1").

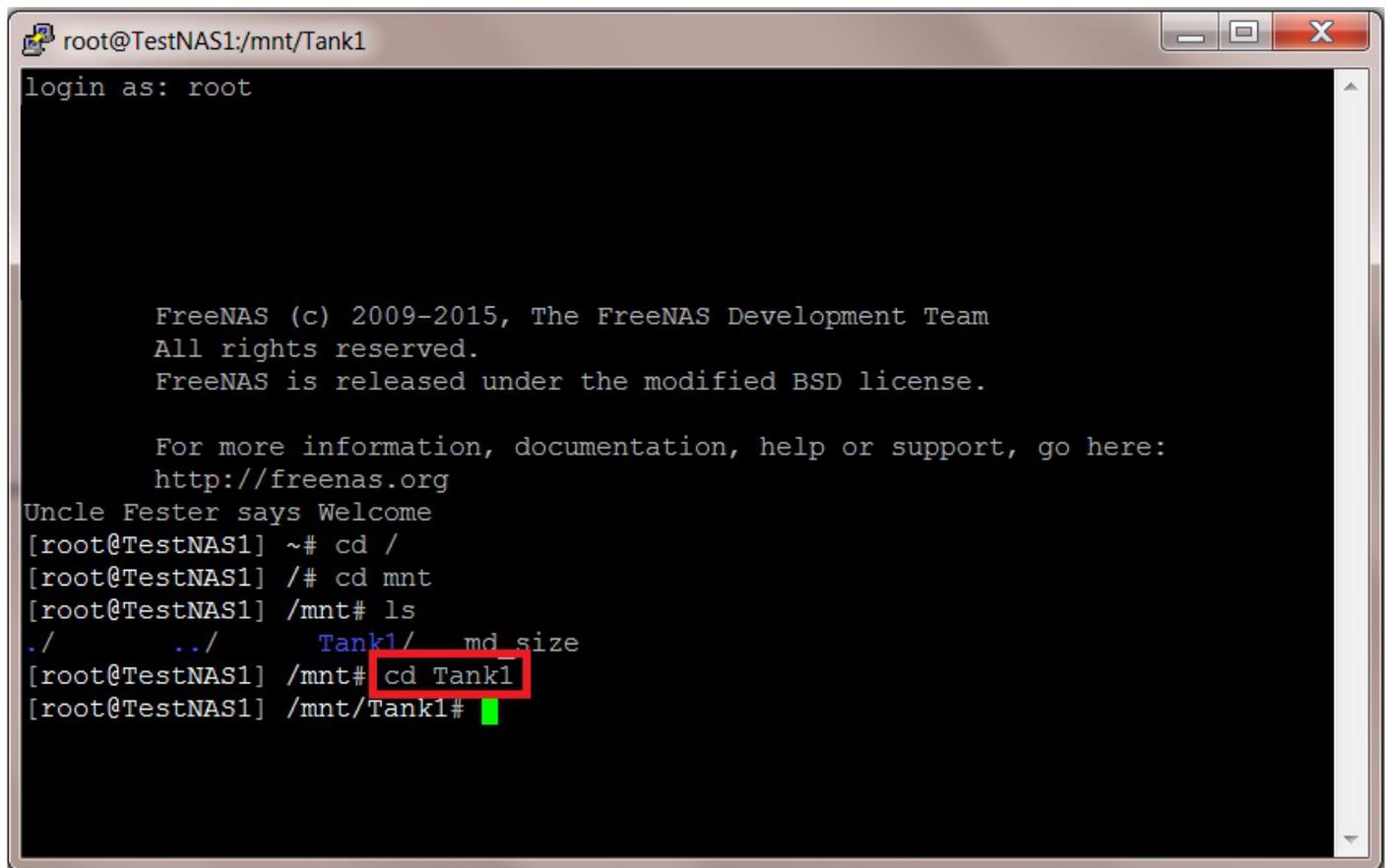
Now type into the command prompt the following command with your volume name. The volume name is case sensitive so make sure you observe this when typing in the command.

```
cd YourVolumeNameHere
```

In Fester's case the command would look like this.

```
cd Tank1
```

You should see a screen like this.



```
root@TestNAS1:/mnt/Tank1
login as: root

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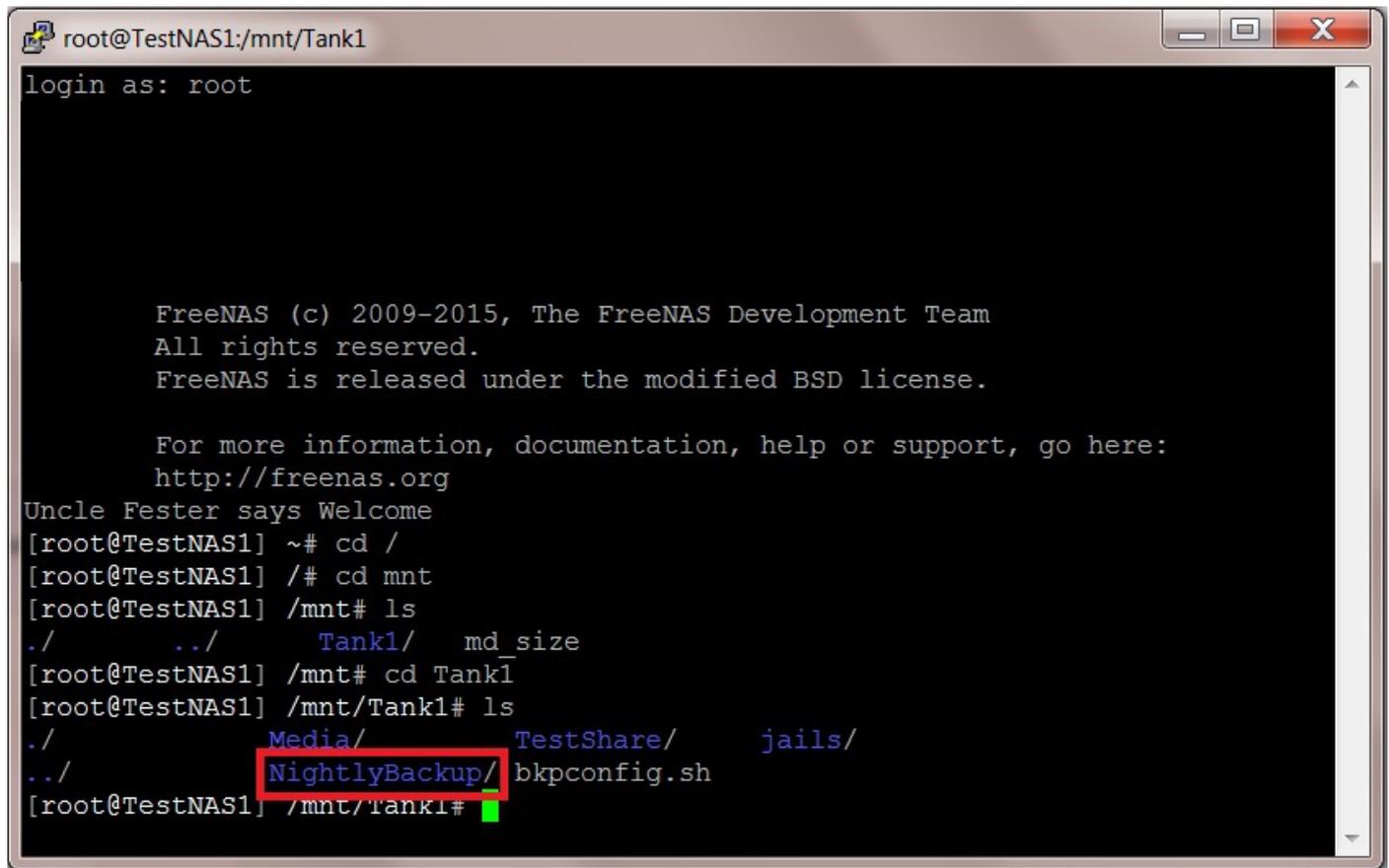
For more information, documentation, help or support, go here:
http://freenas.org

Uncle Fester says Welcome
[root@TestNAS1] ~# cd /
[root@TestNAS1] /# cd /mnt
[root@TestNAS1] /mnt# ls
./          ../          Tank1/      md_size
[root@TestNAS1] /mnt# cd Tank1
[root@TestNAS1] /mnt/Tank1#
```

Now type in the following command at the command prompt to see your dataset's name.

```
ls
```

You should see a screen that looks something like this.

A terminal window titled 'root@TestNAS1:/mnt/Tank1' with standard window controls. The terminal output shows a login as root, followed by FreeNAS copyright information and a welcome message from 'Uncle Fester'. The user navigates through the directory structure: from the root directory to /mnt, then to /mnt/Tank1. A red box highlights the 'NightlyBackup/' directory in the ls output. The prompt ends with a green cursor.

```
root@TestNAS1:/mnt/Tank1
login as: root

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Uncle Fester says Welcome
[root@TestNAS1] ~# cd /
[root@TestNAS1] /# cd /mnt
[root@TestNAS1] /mnt# ls
./      ../      Tank1/  md      size
[root@TestNAS1] /mnt# cd Tank1
[root@TestNAS1] /mnt/Tank1# ls
./      Media/  TestShare/  jails/
../     NightlyBackup/  bkpconfig.sh
[root@TestNAS1] /mnt/Tank1#
```

The name of the dataset will be revealed at this point (in Fester's case it is the blue text "NightlyBackup").

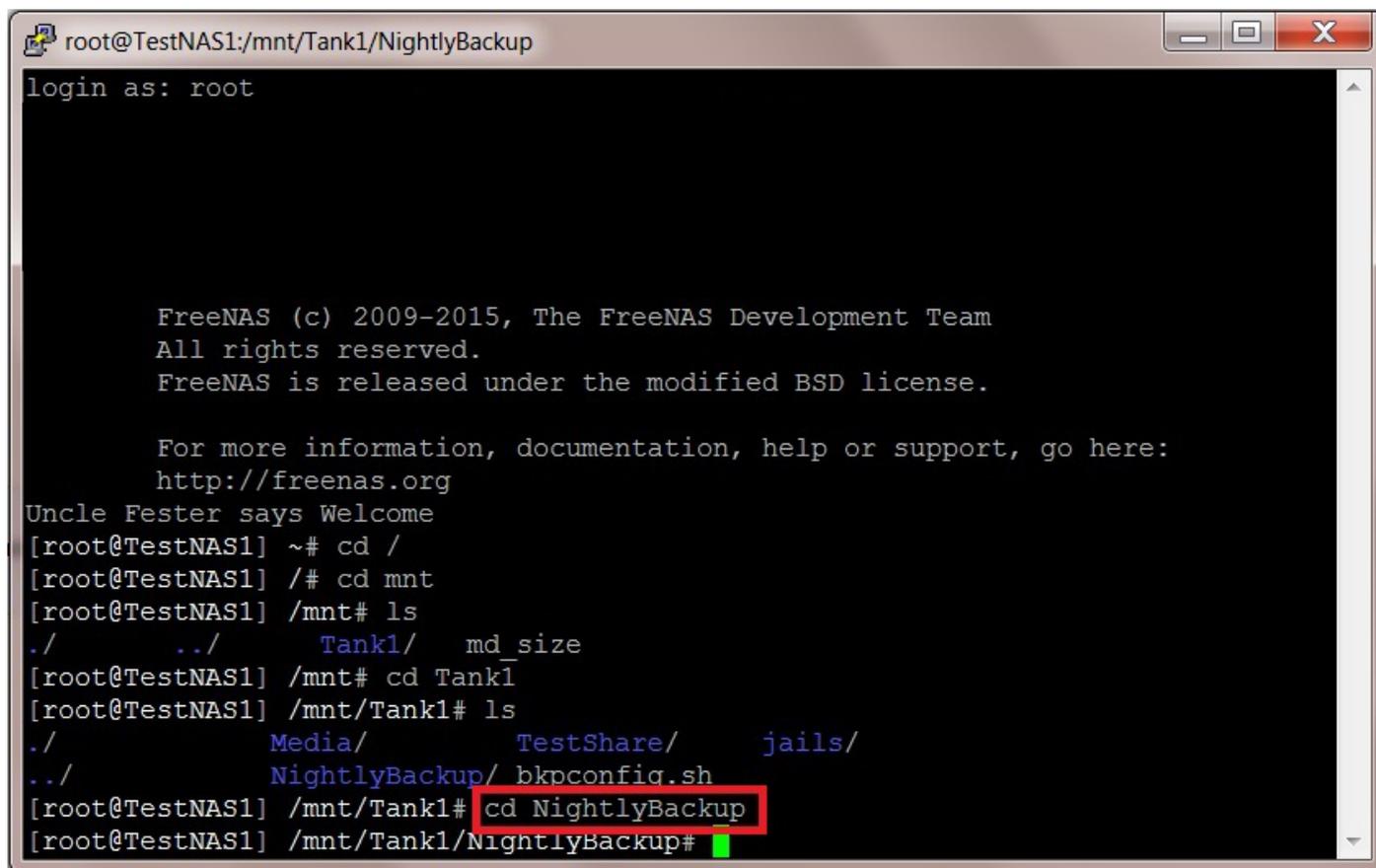
Now type into the command prompt the following command with your dataset name. The dataset name is case sensitive so make sure you observe this when typing in the command.

```
cd YourDatasetNameHere
```

In Fester's case the command would look like this.

```
cd NightlyBackup
```

You should see a screen like this.

A terminal window titled 'root@TestNAS1:/mnt/Tank1/NightlyBackup'. The window shows a series of commands and their outputs. The user logs in as root, receives a welcome message from 'Uncle Fester', and navigates through the directory structure: from the root directory to /mnt, then to /mnt/Tank1, and finally to /mnt/Tank1/NightlyBackup. The command 'cd NightlyBackup' is highlighted with a red box. A green cursor is visible at the end of the final prompt.

```
root@TestNAS1:/mnt/Tank1/NightlyBackup
login as: root

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http://freenas.org

Uncle Fester says Welcome
[root@TestNAS1] ~# cd /
[root@TestNAS1] /# cd mnt
[root@TestNAS1] /mnt# ls
./      ../      Tank1/   md_size
[root@TestNAS1] /mnt# cd Tank1
[root@TestNAS1] /mnt/Tank1# ls
./      Media/   TestShare/  jails/
../     NightlyBackup/ bkpconfig.sh
[root@TestNAS1] /mnt/Tank1# cd NightlyBackup
[root@TestNAS1] /mnt/Tank1/NightlyBackup#
```

Now type in the following command at the command prompt.

```
ls
```

You should see a screen showing a file with the date for its name starting with the year, then the month and then the day. If you get something that resembles the following then it has worked.

```
root@TestNAS1:/mnt/Tank1/NightlyBackup

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Uncle Fester says Welcome
[root@TestNAS1] ~# cd /
[root@TestNAS1] /# cd mnt
[root@TestNAS1] /mnt# ls
./      ../      Tank1/   md_size
[root@TestNAS1] /mnt# cd Tank1
[root@TestNAS1] /mnt/Tank1# ls
./      Media/   TestShare/  jails/
../     NightlyBackup/ bkpconfig.sh
[root@TestNAS1] /mnt/Tank1# cd NightlyBackup
[root@TestNAS1] /mnt/Tank1/NightlyBackup# ls
./      ../      .windows  20160517.db*
[root@TestNAS1] /mnt/Tank1/NightlyBackup#
```

So the “20160517.db” file in the screen shot was created on the 17/05/2016.

That’s the nightly backup of the FreeNAS configuration file done.

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