

\*\*\*\*\*

## FreeNAS tutorial ::

<http://freenas.2trux.com/>

<https://doc.freenas.org/9.10/intro.html>

\*\*\*\*\*

## ssmtp config ::

The screenshot shows the FreeNAS web interface in a Mozilla Firefox browser. The page is titled "FreeNAS" and "iXsystems". The left sidebar contains a navigation menu with options like Account, System, Tasks, Network, Storage, Directory Service, Sharing, Services, Plugins, Jails, Reporting, Wizard, Display System Processes, Shell, Log Out, Reboot, and Shutdown. The main content area is titled "System" and has tabs for Information, General, Boot, Advanced, Email, System Dataset, Tunables, Update, CAs, Certificates, and Support. The "Email" tab is selected, showing the SMTP configuration form. The form includes fields for "From email:" (bizruntimetest@gmail.com), "Outgoing mail server:" (smtp.gmail.com), "Port to connect to:" (465), "TLS/SSL:" (SSL), "Use SMTP Authentication:" (checked), "Username:" (bizruntimetest), "Password:" (masked), and "Password confirmation:" (masked). There are "Save" and "Send Test Mail" buttons at the bottom. A hint at the bottom states: "HINT: Test e-mails are sent to root user. To configure it use Account -> Users -> View Users -> root -> Change E-mail".

## ssl certs creation ::

### 1) create ca

The screenshot shows the FreeNAS web interface in a Mozilla Firefox browser. The page is titled "FreeNAS" and "iXsystems". The left sidebar contains a navigation menu with options like Account, System, Tasks, Network, Storage, Directory Service, Sharing, Services, Plugins, Jails, Reporting, Wizard, Display System Processes, Shell, Log Out, Reboot, and Shutdown. The main content area is titled "System" and has tabs for Information, General, Boot, Advanced, Email, System Dataset, Tunables, Update, CAs, Certificates, and Support. The "CAs" tab is selected, showing the CA configuration page. The page has buttons for "Import CA", "Create Internal CA", and "Create Intermediate CA". Below these buttons is a table with the following data:

Name	Internal	Issuer	Certificates	Distinguished Name	From	Until
freenas-ca	YES	self-signed	1	/C=IN/ST=karnataka /L=bangalore/O=biz /CN=192.168.1.46 /emailAddress=no	Thu Oct 27 11:40:19 2016	Sun Oct 25 11:40:19 2026

## 2) create ssl key and certs using ca

The screenshot shows the FreeNAS web interface in a Mozilla Firefox browser. The address bar displays `https://192.168.1.35`. The interface has a top navigation bar with icons for Account, System, Tasks, Network, Storage, Directory, Sharing, Services, Plugins, Jails, Reporting, Wizard, Support, Guide, and Alert. A left sidebar contains a tree view of system components. The main content area is titled 'System' and includes tabs for Information, General, Boot, Advanced, Email, System Dataset, Tunables, Update, CAs, Certificates, and Support. The 'Certificates' tab is active, showing buttons for 'Import Certificate', 'Create Internal Certificate', and 'Create Certificate Signing Request'. Below these buttons is a table listing certificates:

Name	Issuer	Distinguished Name	From	Until
server	external	/C=IN/ST=KARNATAKA /L=KARNATAKA/O=BIZRUNTIME /OU=INFRA/CN=192.168.1.200 /emailAddress=akhlirajmailbox@gmail.com	Wed Jul 27 11:25:13 2016	Thu Jul 27 11:25:13 2017
biz-new	freenas-ca	/C=IN/ST=KARNATAKA /L=KARNATAKA/O=BIZRUNTIME /CN=192.168.1.46 /emailAddress=akhlirajmailbox@gmail.com	Thu Oct 27 11:47:07 2016	Sun Oct 25 11:47:07 2026

## ldap configuration ::

The screenshot shows the FreeNAS web interface with the 'Directory Service' tab selected. The 'LDAP' sub-tab is active. A red notice states: 'Notice: samba extensions not detected. CIFS authentication to LDAP disabled.' The configuration fields are as follows:

- Hostname: 192.168.1.234
- Base DN: dc=biz,dc=com
- Bind DN: cn=admin,dc=biz,dc=com
- Bind password: (empty field)
- Enable: ☒

Buttons at the bottom include 'Save', 'Advanced Mode', and 'Rebuild Directory Service Cache'.

users listed in share configuration windows only,

## attaching volume in vmware ::

<https://forums.freenas.org/index.php?threads/freenas-8-on-vmware-4-1-no-member-disks.1230/>

\*\*\*\*\*

## *s3 bucket mounting in freenas*

\*\*\*\*\*

Run freenas os in a server, then go to web GUI and go inside the shell (working inside the shell is not recommended because the data will not persist inside the server after reboot, so use jail with same version of freenas server).

Edit /usr/local/etc/pkg/repos/FreeBSD.conf “no” to “yes”

*# nano /usr/local/etc/pkg/repos/FreeBSD.conf*  
*change no to yes*

*# pkg update*            *# if it doesnt work, go through the following steps*

*# rm /var/db/pkg/repo-\*.sqlite*  
*# pkg update*

*# pkg install fusefs-s3fs*

to start it at booting

*# kldload fuse*

*# nano /etc/rc.conf*    >>    *fusefs\_enable="YES"*

after this create a directory for mounting

*# mkdir /mnt/mys3bucket*

Now create a file in /etc/ called passwd-s3fs and set its perms to 640. In that file add your S3 access-key and secret key as follows:

*# nano /etc/passwd-s3fs*

*accessKeyId:secretAccessKey*

*# /usr/local/etc/rc.d/fusefs start*

mount the s3 bucket to that directory

*# s3fs <bucket-name> /mnt -ouse\_cache=/tmp,allow\_other*

*# s3fs freenas-test-02 /mnt/mys3bucket*

\*\*\*\*\*

links::

installation in ubuntu >>

<https://github.com/s3fs-fuse/s3fs-fuse/wiki/Installation%20Notes>

<https://ports.markheppner.com/sysutils/fusefs-s3fs>

remote sync >>

<http://www.inetpub.dk/index.php/widgetkit/just-going-through-the-motions/60-remote-synchronization-from-freenas-to-amazon-s3>

jail setup >>

<https://forums.freenas.org/index.php?threads/virtualbox-in-a-jail-in-freenas.20185/>

error inside jail and solutions >>

<https://forums.freebsd.org/threads/57203/>

<https://forums.freebsd.org/threads/25920/>

<https://forums.freebsd.org/threads/44181/>

<http://unix.stackexchange.com/questions/301640/how-to-pkg-upgrade-on-freenas-freebsd>

<https://forums.freebsd.org/threads/15961/>

mounting s3 >>

<http://superuser.com/questions/327661/how-to-mount-amazon-s3-bucket-to-a-directory-on-freebsd>

\*\*\*\*\*