

<https://wiki.asterisk.org/wiki/display/AST/Installing+AsteriskNOW>



1. [Asterisk Project](#)
2. ...
3. [Installing Asterisk](#)

Installing AsteriskNOW

[Skip to end of metadata](#)

-
- Attachments:17
- Added by [malcolmd](#), last edited by [Malcolm Davenport](#) on Mar 19, 2013 ([view change](#))
- [show comment](#)

[Go to start of metadata](#)

Thank you for downloading AsteriskNOW. This Linux distribution has been carefully customized and tested with Asterisk, and installs all of the packages needed for its use. It is the officially recommended development and runtime platform for Asterisk and Digium hardware, including Digium phones.

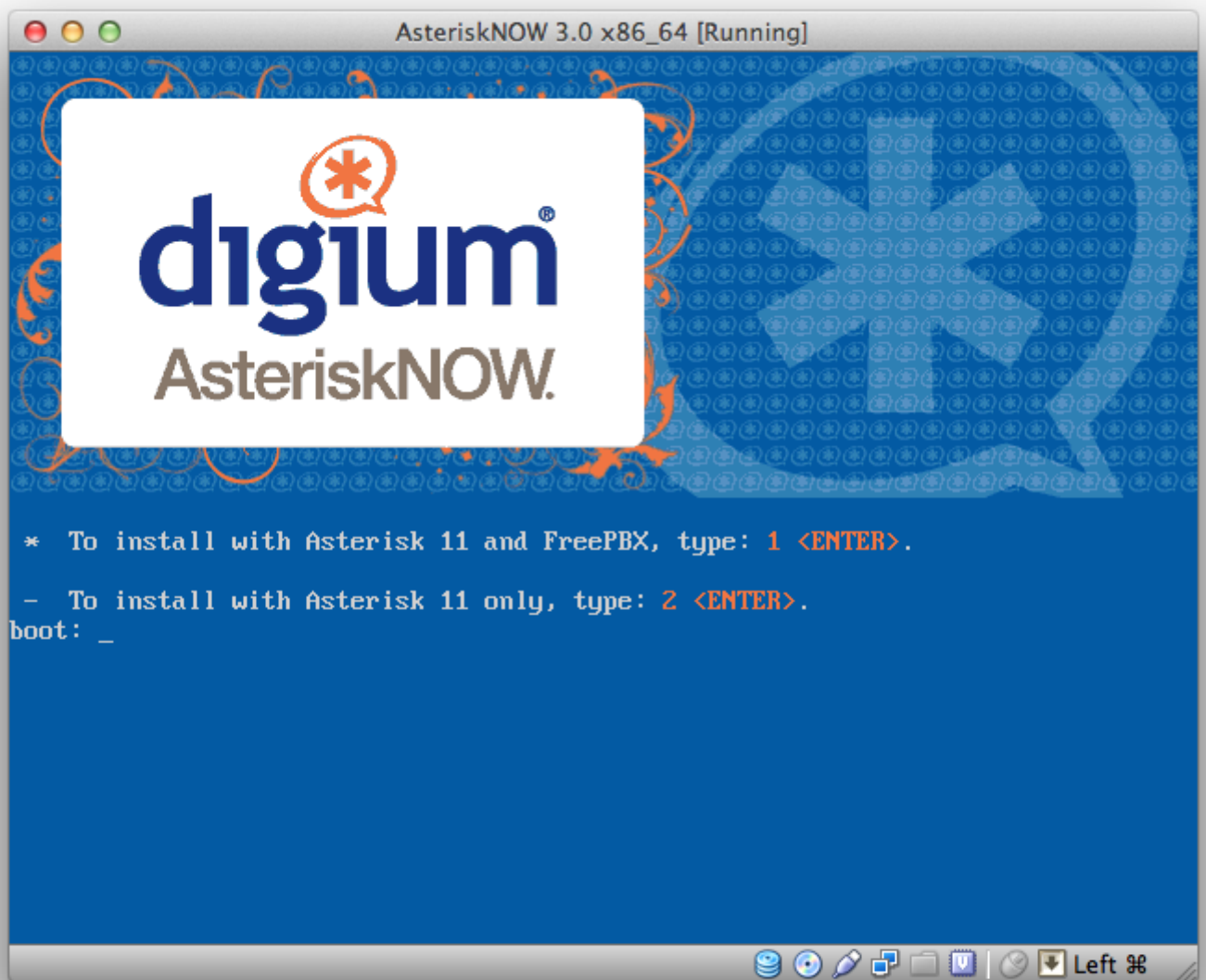
This guide provides a brief overview of installation, configuration, and maintenance of your system.

More information is available at <http://wiki.centos.org/>.

Please report any bugs at <https://issues.asterisk.org/jira>

Installation

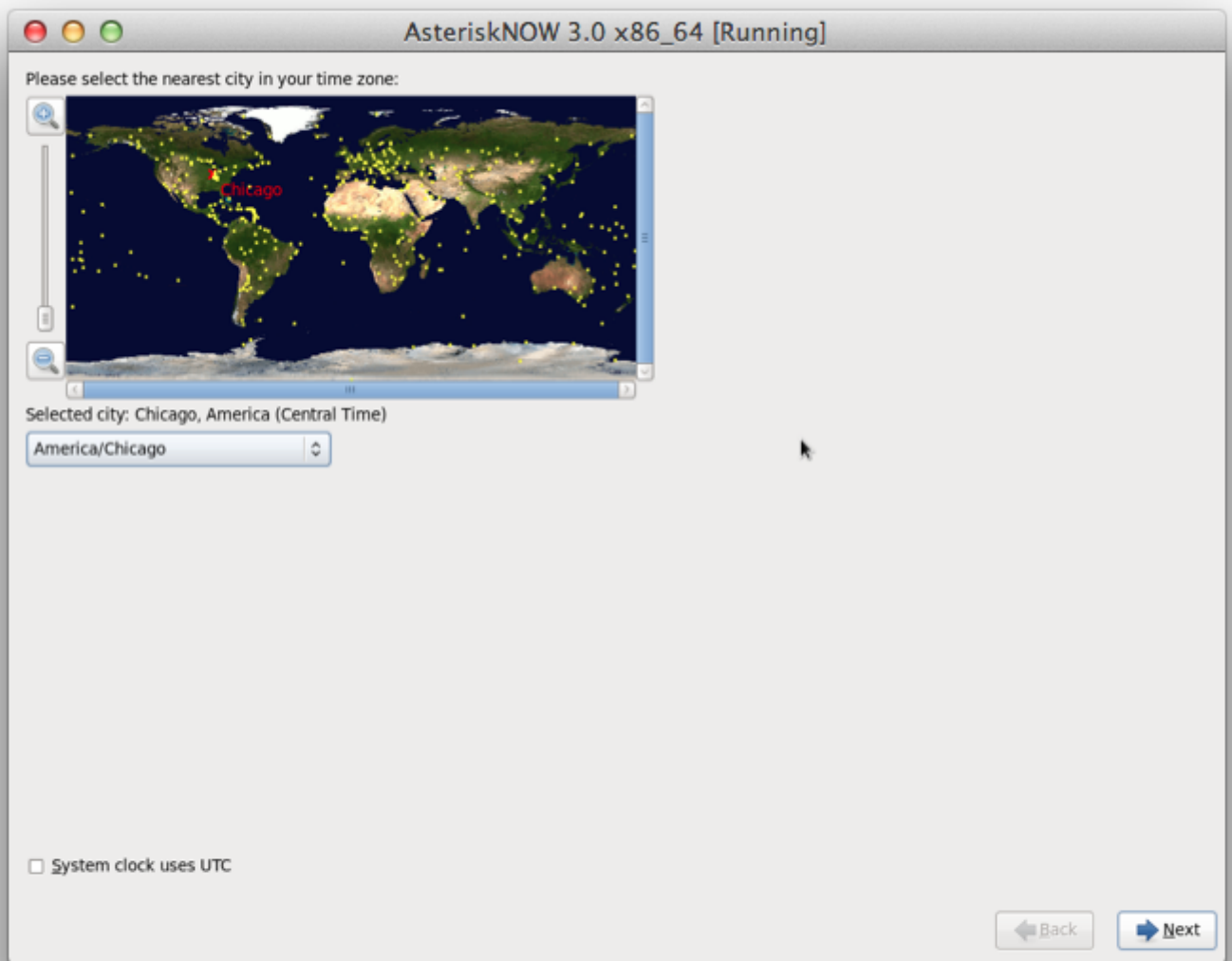
- Burn the AsteriskNOW DVD image to DVD disc and then boot from the DVD to begin the installation process.
- If you are unfamiliar with burning disc images, the Ubuntu community has a great Burning ISO Howto available at <https://help.ubuntu.com/community/BurningIsoHowto>.
- If you are unfamiliar with booting to DVD, the Ubuntu community has a wonderful Boot From DVD HOWTO available at <https://help.ubuntu.com/community/BootFromCD>.
- After booting from the AsteriskNOW DVD, you will be presented with the following screen and options for an installation with, or without the FreePBX web interface. This QuickStart assumes that the FreePBX web interface has been installed. To do this, selection option 1 and press <ENTER>:



Icon

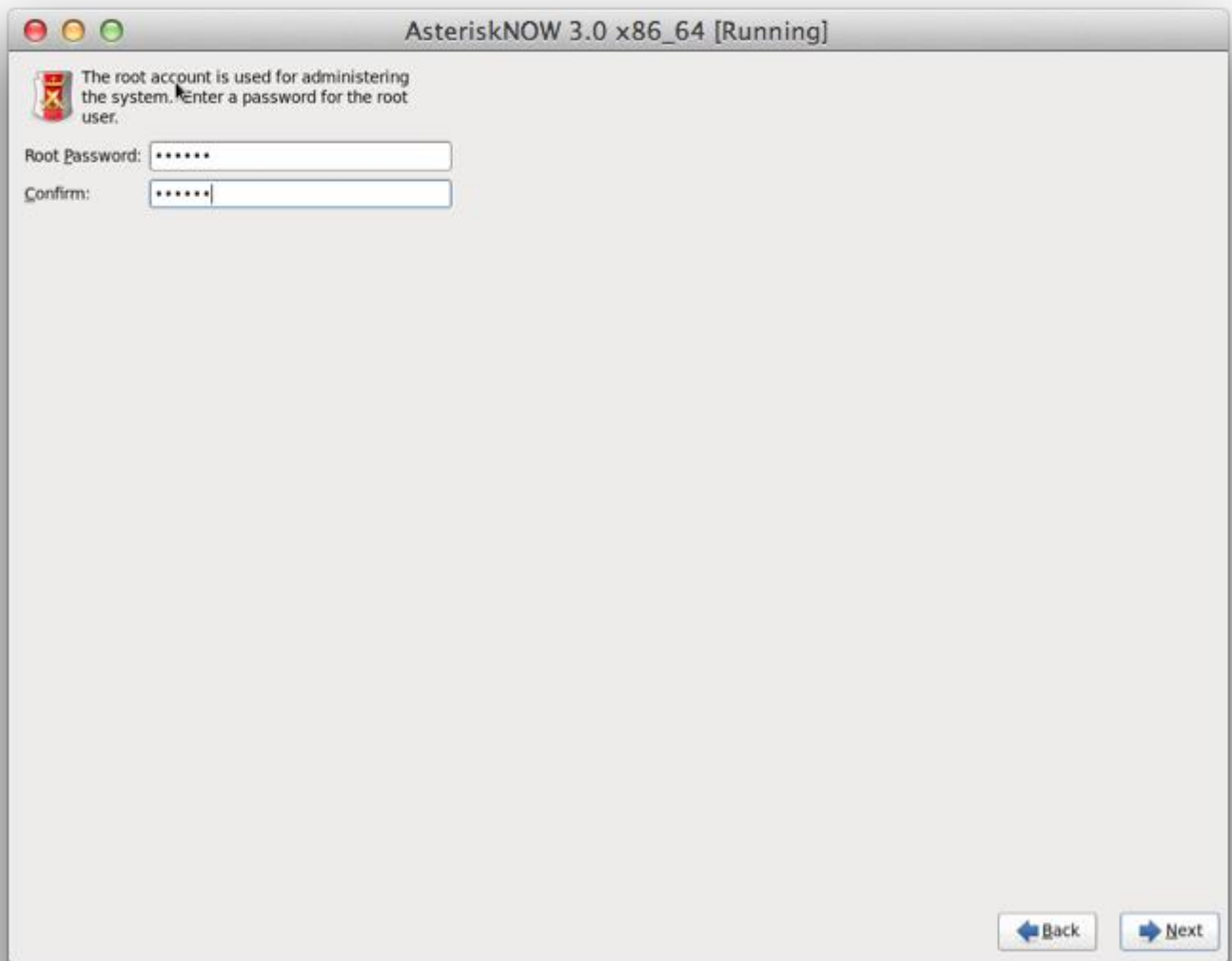
This will begin the automated graphical installation process.

- During the installation, you are first presented with an option for setting the system Time Zone:



** Choose the location that is nearest to you and move to the next screen.

- Next, you will be prompted to set a root password:



Icon

The 'root' user is the administrative account for Linux systems. Most system configuration requires 'root' access. If this password is lost, it is impossible to recover. It is recommend that your password contain a mix of lowercase and UPPERCASE letters, numbers, and/or symbols. Or, if you're into entropy, try a [pass phrase](#).

- Then, you will choose your Hard Disk Layout:



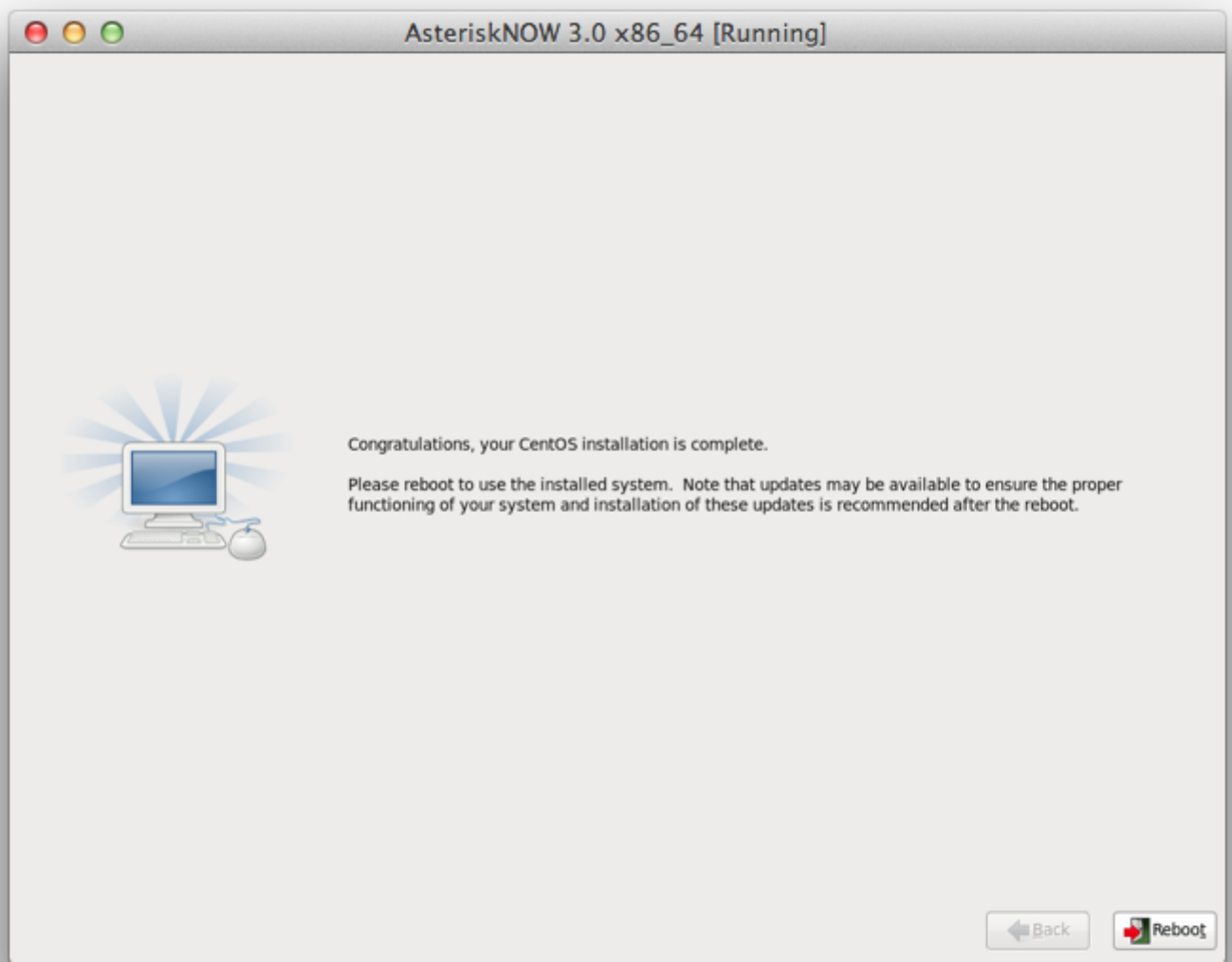
Icon

It is recommended to select "Use All Space" and move to the next screen.

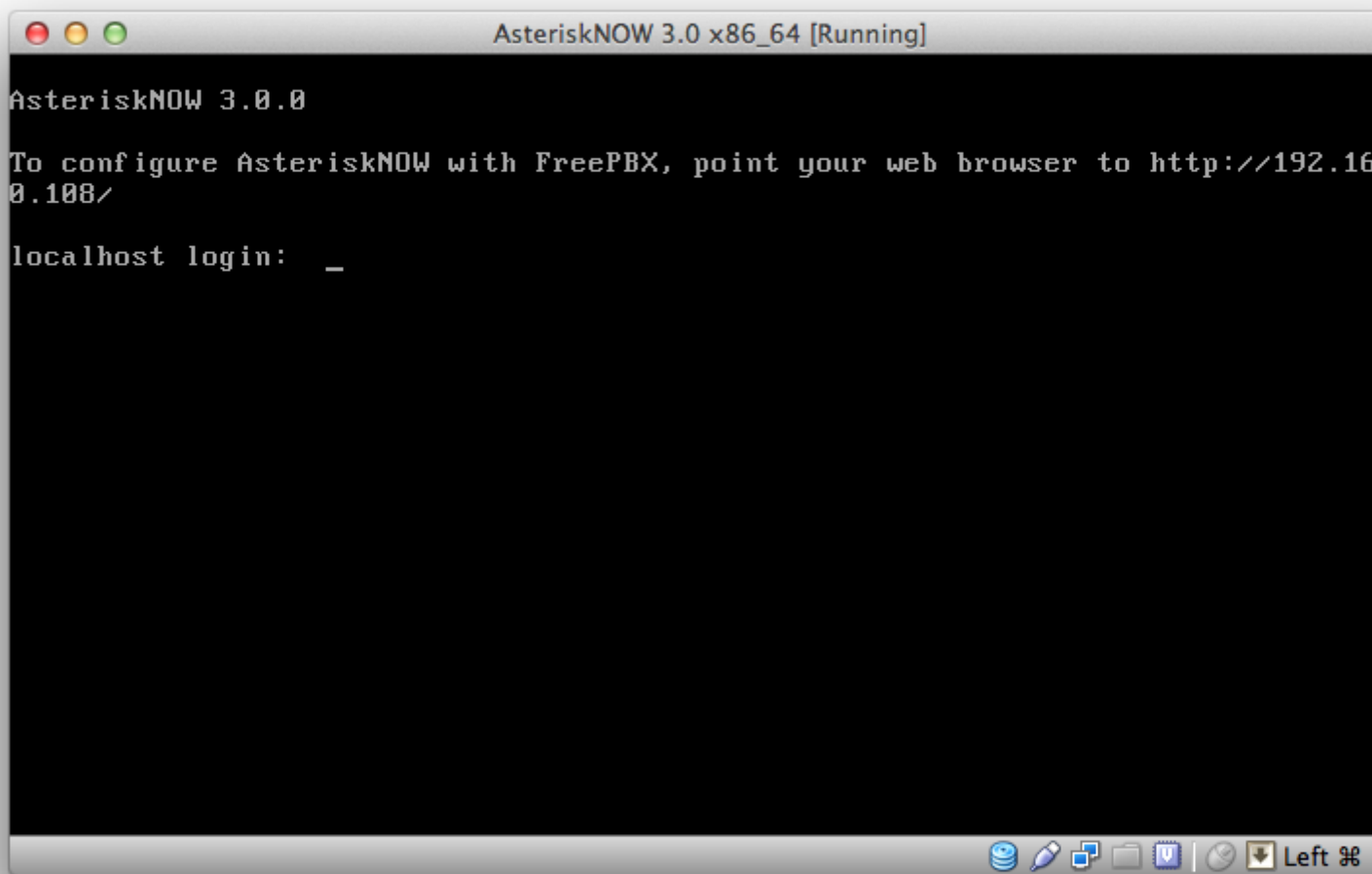
- Now, sit back, relax, have a cup of coffee and wait while the system is installed. This will take approximately 15-30 minutes. You will see a progress bar indicating the installation status.



Once installation has completed, you will be prompted to reboot into your installation:



- After the system reboots you will see this screen:



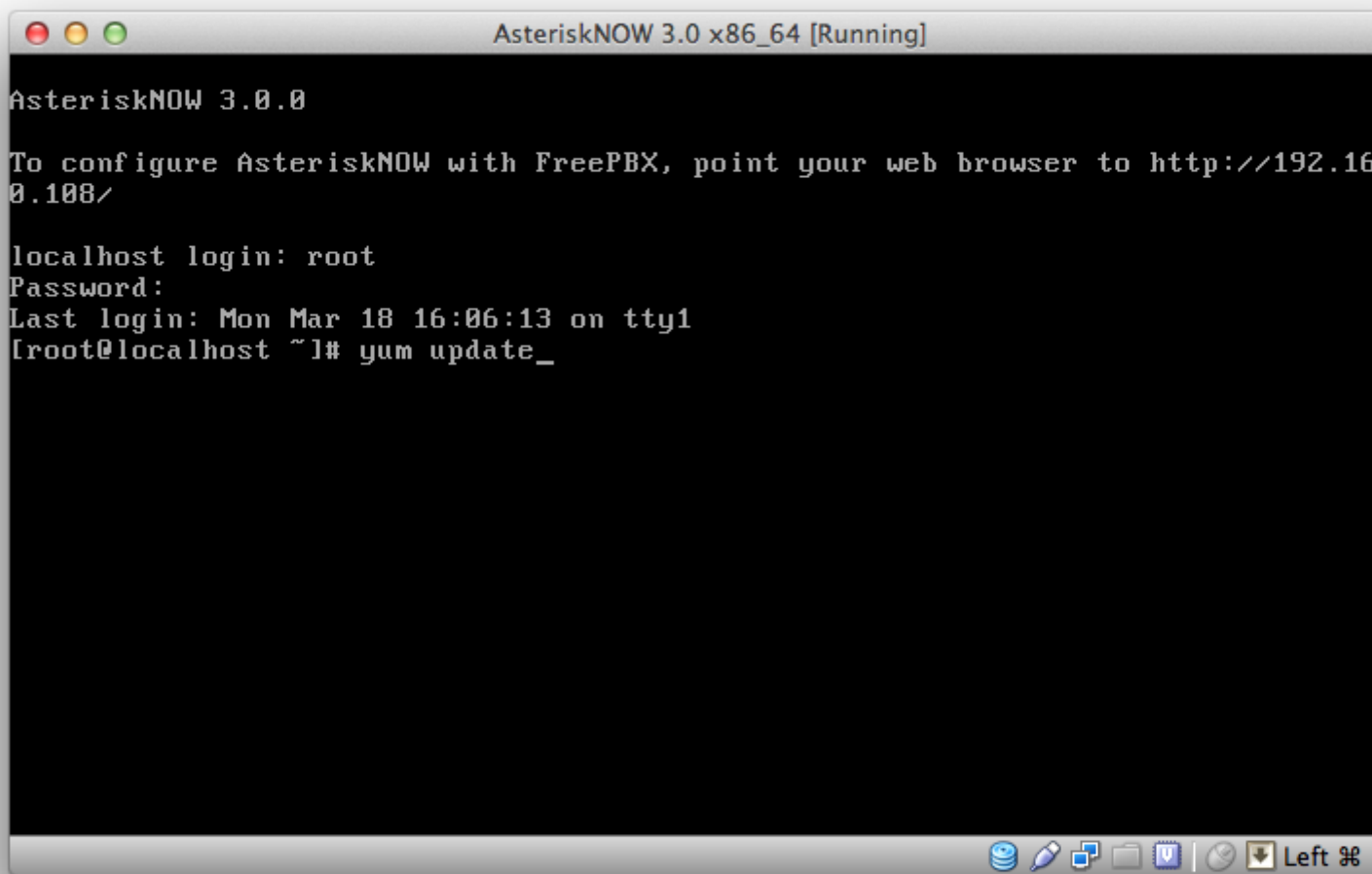
Congratulations! You have successfully installed AsteriskNOW.

Icon

Notice the text that says "To configure AsteriskNOW with FreePBX, point your web browser to <http://xx.xx.xx.xx/>."

Write this down, you will need it in the next section.

- Now, before you move on, it is important to update your AsteriskNOW system to the latest Linux packages. To do this, use the yum utility "yum." Perform a "yum update"



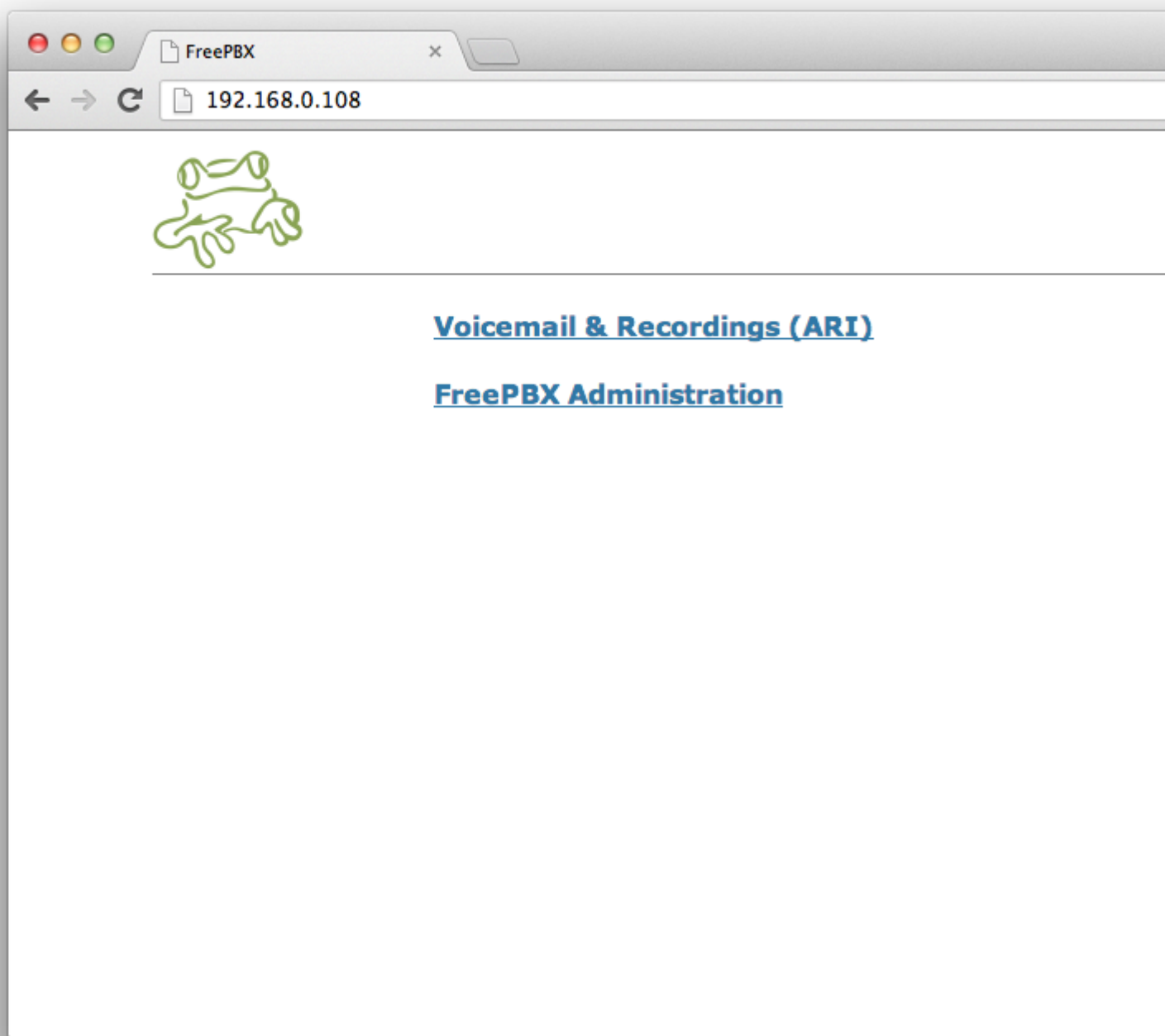
** If new packages are available for installation, the utility will ask permission to install them. And, if the utility has not been run before, it may ask permission to accept a yum key. You should accept both to stay up to date.

- You are now ready to move on to configuration of AsteriskNOW from the FreePBX web interface.

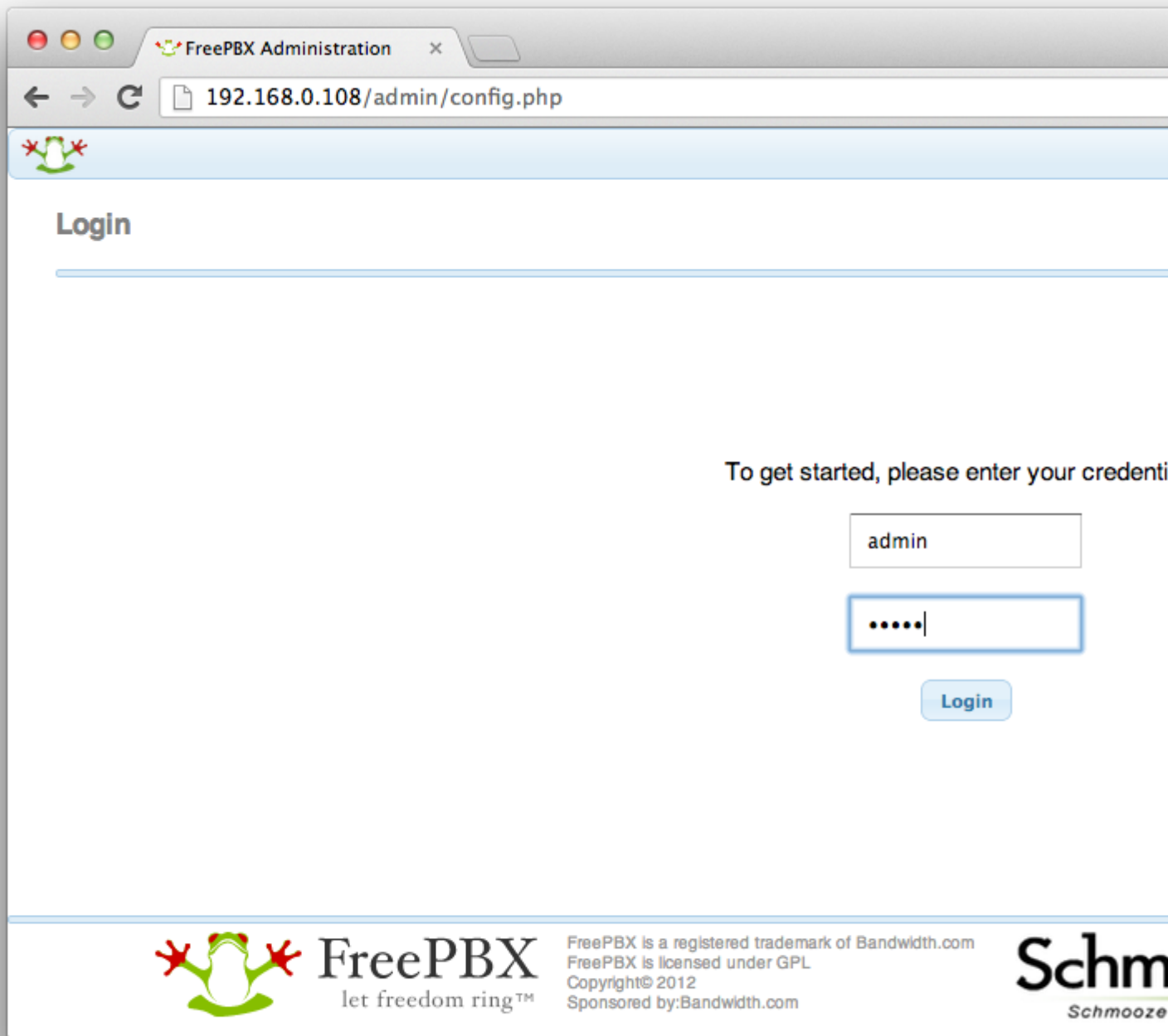
FreePBX Configuration

- To configure your system using FreePBX, open a web browser on another PC to the address specified during boot, e.g. "To configure AsteriskNOW with FreePBX, point your web browser to <http://xx.xx.xx.xx/>. If successful, you will be

presented with the FreePBX main screen:



- From here, we want the "FreePBX Administration" link. Click it, and you will see the FreePBX login screen:



The screenshot shows a web browser window with the title "FreePBX Administration". The address bar displays "192.168.0.108/admin/config.php". The page features a green frog logo in the top left corner. Below the logo, the word "Login" is displayed. A horizontal line separates the header from the main content area. On the right side, the text "To get started, please enter your credentials" is visible. Below this text are two input fields: the first contains the text "admin", and the second contains six dots, indicating a password field. A blue "Login" button is positioned below the password field. At the bottom of the page, there is a footer section containing the FreePBX logo (a green frog) and the text "FreePBX let freedom ring™". To the right of the logo, the following text is displayed: "FreePBX is a registered trademark of Bandwidth.com", "FreePBX is licensed under GPL", "Copyright© 2012", and "Sponsored by:Bandwidth.com". On the far right of the footer, the text "Schmooze" is visible, with "Schmooze" written below it.

FreePBX Administration

192.168.0.108/admin/config.php

Login

To get started, please enter your credentials

admin

.....

Login

FreePBX
let freedom ring™

FreePBX is a registered trademark of Bandwidth.com
FreePBX is licensed under GPL
Copyright© 2012
Sponsored by:Bandwidth.com

Schmooze
Schmooze

Icon

The default username is **admin**

The default password is **admin**

- Having successfully logged into FreePBX, you will see the FreePBX dashboard:



Icon

Notice the **Red** reload button. It will appear after changes are made to any page. If you see it, it should be clicked, it will affect any changes on the system that FreePBX needs to make. This guide assumes that whenever you see it, you will click it.

- Next, we will change the default admin password. This is imperative! Failure to do this is inviting disaster. The importance of doing this**CANNOT be understated**.

- First, visit the Admin tool

FreePBX Administration

192.168.0.108/admin/config.php?display=index

Admin Applications Connectivity Reports Settings

Digium Addons
Administrators
Custom Destinations
Custom Extensions
Feature Codes
FreePBX Support
Module Admin
System Recordings
Symlink from modules failed
There are 1 bad destinations
Default ARI Admin password Used
Default Asterisk Manager Password Used
Collecting Anonymous Browser Stats
show all

System Status

FreePBX Notices

- Modules is not owned by asterisk
- modules.conf is not owned by asterisk
- modules/dahdi.conf is not owned by asterisk
- Symlink from modules failed
- There are 1 bad destinations
- Default ARI Admin password Used
- Default Asterisk Manager Password Used
- Collecting Anonymous Browser Stats

FreePBX Statistics

Total active calls	0
Internal calls	0
External calls	0
Total active channels	0

FreePBX Connections

Uptime

System Uptime: 12 minutes
Asterisk Uptime: 11 minutes
Last Reload: 44 seconds

System Statistics

Processor

Load Average	0.29
--------------	------

Memory

CPU	2%
App Memory	21%
Swap	0%

Disks

	3%
/dev/shm	0%
/boot	11%

Networks

eth0 receive	0.00 KB/s
eth0 transmit	0.00 KB/s

Server Status

Asterisk	OK
MySQL	OK
Web Server	OK
SSH Server	OK

192.168.0.108/admin/config.php?display=ampusers

- Next, select admin from the right column

The screenshot shows a web browser window titled 'FreePBX Administration' with the URL '192.168.0.108/admin/config.php?display=ampusers'. The navigation bar includes 'Admin', 'Applications', 'Connectivity', 'Reports', and 'Settings'. The main heading is 'Add Administrator'.

General Settings

Username [?]:

Password [?]:

Access Restrictions

Department Name [?]:

Extension Range [?]: to

Admin Access [?]:

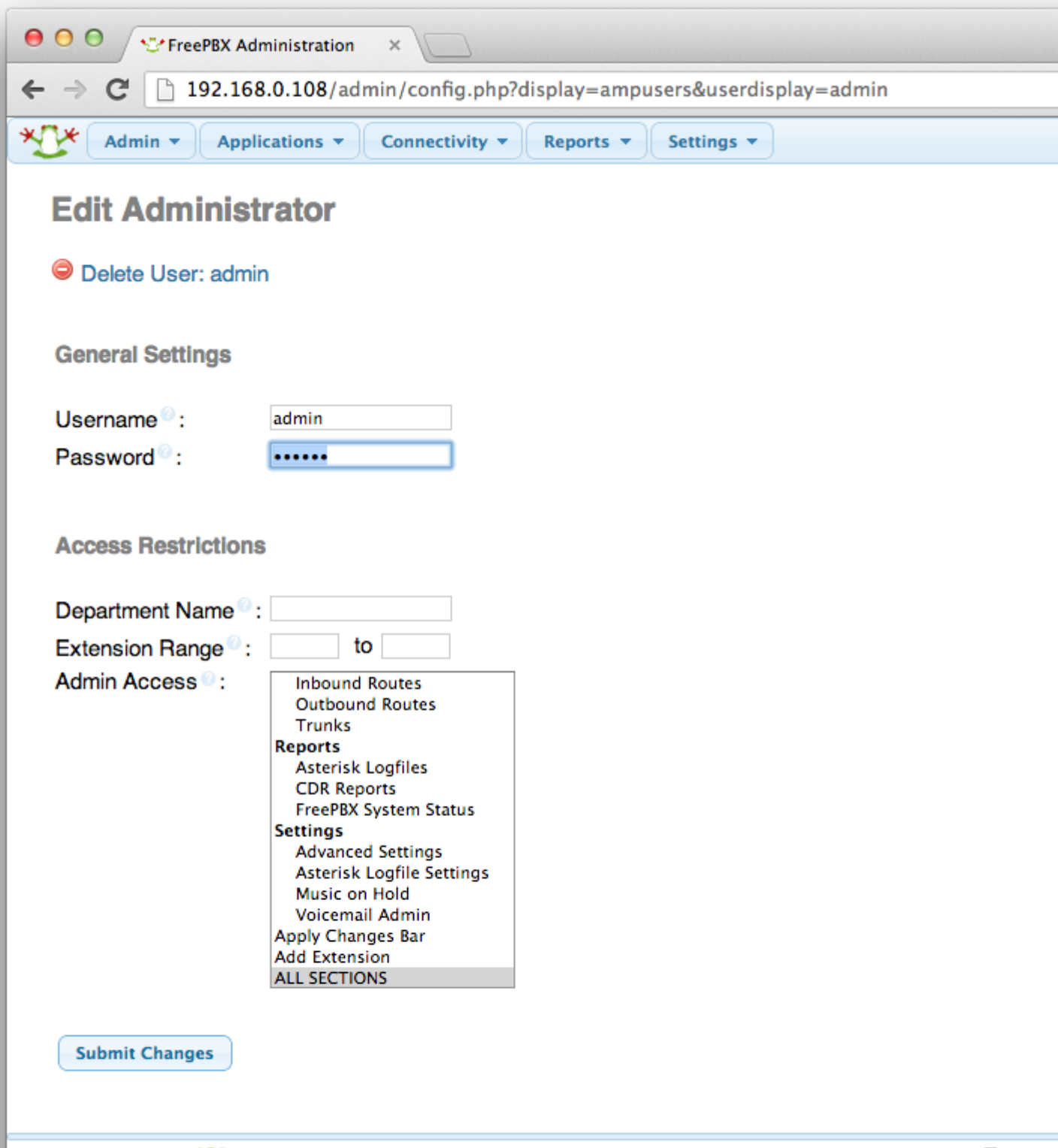
- Inbound Routes
- Outbound Routes
- Trunks
- Reports**
- Asterisk Logfiles
- CDR Reports
- FreePBX System Status
- Settings**
- Advanced Settings
- Asterisk Logfile Settings
- Music on Hold
- Voicemail Admin
- Apply Changes Bar
- Add Extension
- ALL SECTIONS

FreePBX is a registered trademark of Bandwidth.com
FreePBX is licensed under GPL

192.168.0.108/admin/config.php?display=ampusers&userdisplay=admin 12


Schm

- Then, change the admin password





The screenshot shows a web browser window titled "FreePBX Administration" with the URL `192.168.0.108/admin/config.php?display=ampusers&userdisplay=admin`. The navigation bar includes links for Admin, Applications, Connectivity, Reports, and Settings. The main heading is "Edit Administrator". Below it, there is a red delete icon and the text "Delete User: admin". The "General Settings" section contains fields for "Username" (set to "admin") and "Password" (masked with dots). The "Access Restrictions" section includes fields for "Department Name", "Extension Range" (with "to" separator), and "Admin Access". The "Admin Access" dropdown menu is open, showing a list of sections: Inbound Routes, Outbound Routes, Trunks, Reports (with sub-items Asterisk Logfiles, CDR Reports, FreePBX System Status), Settings (with sub-items Advanced Settings, Asterisk Logfile Settings, Music on Hold, Voicemail Admin), Apply Changes Bar, Add Extension, and ALL SECTIONS (highlighted). A "Submit Changes" button is at the bottom.

Edit Administrator


 Delete User: admin


General Settings


Username  :

Password  :

Access Restrictions

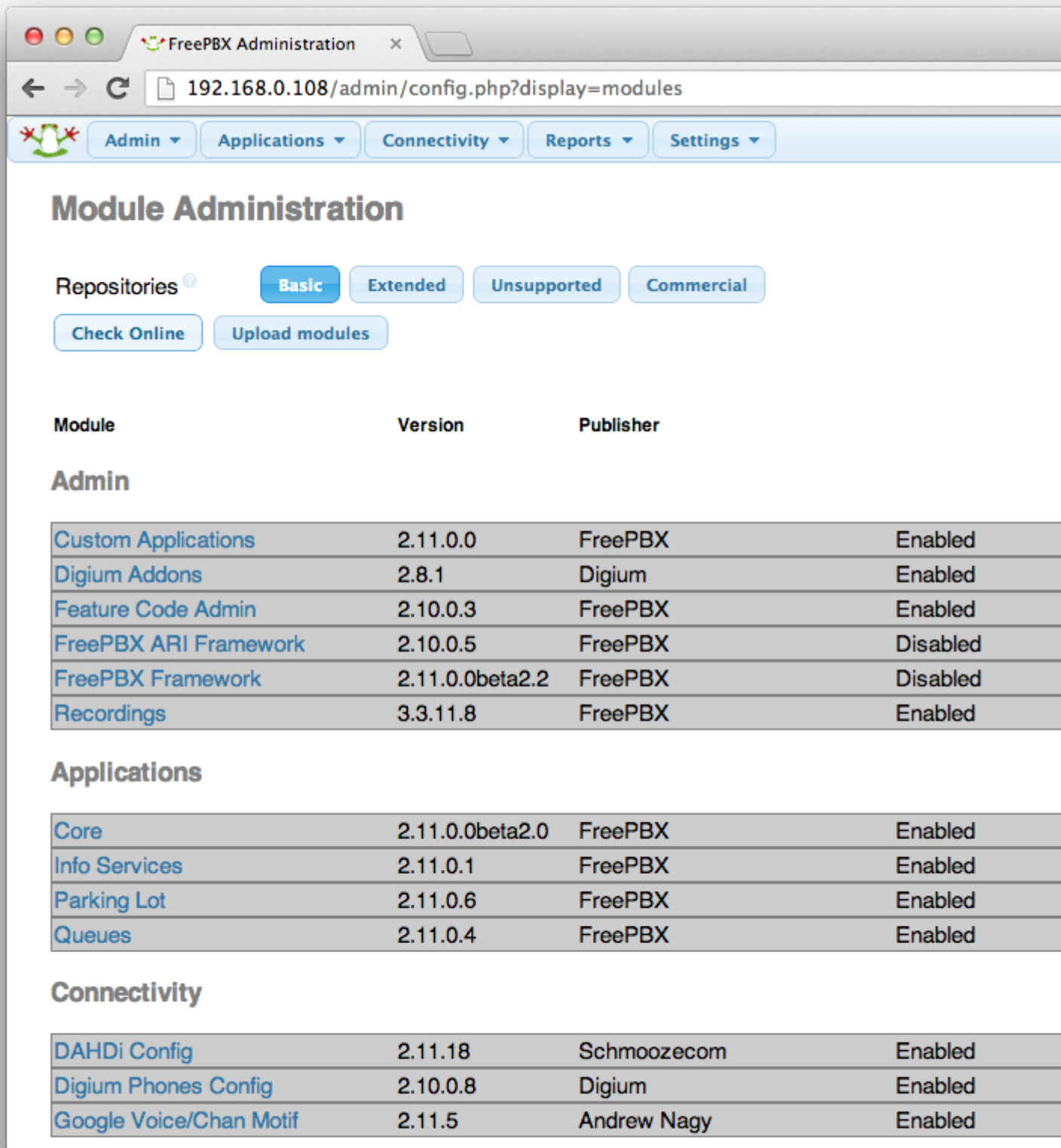
Department Name  :

Extension Range  : to

Admin Access  :

- Inbound Routes
- Outbound Routes
- Trunks
- Reports**
 - Asterisk Logfiles
 - CDR Reports
 - FreePBX System Status
- Settings**
 - Advanced Settings
 - Asterisk Logfile Settings
 - Music on Hold
 - Voicemail Admin
- Apply Changes Bar
- Add Extension
- ALL SECTIONS**

- Finally, one should update any out of date modules on the system. To do this, we will visit the Module Admin tool:



Module Administration

Repositories [?] **Basic** Extended Unsupported Commercial

Check Online Upload modules

Module	Version	Publisher	
Admin			
Custom Applications	2.11.0.0	FreePBX	Enabled
Digium Addons	2.8.1	Digium	Enabled
Feature Code Admin	2.10.0.3	FreePBX	Enabled
FreePBX ARI Framework	2.10.0.5	FreePBX	Disabled
FreePBX Framework	2.11.0.0beta2.2	FreePBX	Disabled
Recordings	3.3.11.8	FreePBX	Enabled
Applications			
Core	2.11.0.0beta2.0	FreePBX	Enabled
Info Services	2.11.0.1	FreePBX	Enabled
Parking Lot	2.11.0.6	FreePBX	Enabled
Queues	2.11.0.4	FreePBX	Enabled
Connectivity			
DAHDi Config	2.11.18	Schmoozecom	Enabled
Digium Phones Config	2.10.0.8	Digium	Enabled
Google Voice/Chan Motif	2.11.5	Andrew Nagy	Enabled

- Click the Check Online button and you will see any out of date modules

FreePBX Administration

192.168.0.108/admin/config.php

Admin



Applications

Connectivity

Reports

Settings

Module Administration

Digium Head
 Huntsville,
 May 21-24, 2

FreePBX SIP Trunking Service Now Available - Click Above To

Manage local modules ☐ Show only upgradeable

Module	Version	Publisher	
Admin			
Backup & Restore		Schmoozecom.com	Not Installed (Av
Blacklist		FreePBX	Not Installed (Av
CallerID Lookup		FreePBX	Not Installed (Av
Custom Applications	2.11.0.0	FreePBX	Enabled and up t
Digium Addons	2.8.1	Digium	Enabled; Not ava
Feature Code Admin	2.10.0.3	FreePBX	Enabled and up t
FreePBX ARI Framework	2.10.0.5	FreePBX	Disabled; up to d
FreePBX Framework	2.11.0.0beta2.2	FreePBX	Disabled; Online
Recordings	3.3.11.8	FreePBX	Enabled and up t
User Panel		FreePBX	Not Installed (Av
Applications			
Announcements		FreePBX	Not Installed (Av
Call Flow Control		FreePBX	Not Installed (Av
Call Forward		FreePBX	Not Installed (Av
Call Recording		FreePBX	Not Installed (Av

- To update a module, click it, and then select the Download option

FreePBX Administration

192.168.0.108/admin/config.php

Admin Applications Connectivity Reports Settings

Module Administration

OPEN TELEPHONY TRAINING SEMINAR Limited Seating. Sign-up Now Seats Are Filling Up! [OPEN TELEPHONY TRAINING SEMINAR](#) OPEN TELEPHONY TRAINING SEMINAR • MAY 21-23

FreePBX SIP Trunking Service Now Available - Click Above To Learn More

Manage local modules ☐ Show only upgradeable

Module	Version	Publisher	
Admin			
Backup & Restore		Schmoozecom.com	Not Installed (Available)
Blacklist		FreePBX	Not Installed (Available)
CallerID Lookup		FreePBX	Not Installed (Available)
Custom Applications	2.11.0.0	FreePBX	Enabled and up to date
Digium Addons	2.8.1	Digium	Enabled; Not available
Feature Code Admin	2.10.0.3	FreePBX	Enabled and up to date
FreePBX ARI Framework	2.10.0.5	FreePBX	Disabled; up to date
FreePBX Framework	2.11.0.0beta2.2	FreePBX	Disabled; Online
Action	<input type="radio"/> No Action <input type="radio"/> Enable <input type="radio"/> Uninstall <input checked="" type="radio"/> Download 2.11.0.0beta2.6, keep Disabled		
Description			
Changelog			
Recordings	3.3.11.8	FreePBX	Enabled and up to date
User Panel		FreePBX	Not Installed (Available)

192.168.0.108/admin/config.php?display=modules

- Finally, press the Process button and follow the instructions to complete the module update.

Updating, Querying, Removing Packages

After completing installation of AsteriskNOW, all of the packages for running Asterisk are installed. However system updates are often available.

AsteriskNOW contains several yum repositories in addition to the ones provided by CentOS. These are asterisk-current/asterisk-tested and digium-current/digium-tested. The asterisk- repositories contain packages for Digium-provided Open Source software (such as Asterisk, libpri, and DAHDI). The digium- repositories contain non-free or commercial software (such as the Digium Phone module for Asterisk, G.729 for Asterisk, Fax For Asterisk, and the HPEC echo cancellation module). This allows you to install additional software and to stay up to date with the latest changes.

Packages can be installed or removed by using ``yum install <package>`` or ``yum remove <package>``. Updates should be regularly installed by using ``yum update``. For a very full list of available and installed packages, you can use ``yum list | less``. For more information about Yum, visit <http://yum.baseurl.org/wiki/YumCommands> or type ``man yum``.