

SCOPTTEL IP PBX Software - Server Installation Wizard

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Network Module

ifconfig

- A newly installed server uses DHCP to get an IP address from a DHCP server on the network so make sure the eth0 interface is connected to the network so the server can get an IP address.
- Before you can login to the server you must know the IP address of at least one physical interface.
- From the Linux console login prompt, enter username `root`.
- From the password prompt enter the default root password `scopserv`.
- Once you are successfully logged as root type the command `ifconfig` to determine at least one eth interface.
- In this example the eth0 IP address is 192.168.192.60 which is the IP address that will be used to login to the GUI later.
- Also notice that the HWaddr is the MAC address of the eth0 interface.

```
login as: root
root@192.168.192.60's password:
Last login: Mon Jul 16 13:31:19 2012 from 192.168.192.55
[root@virtualbox1253 ~]# ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:0E:20:B0
          inet addr:192.168.192.60  Bcast:192.168.192.255  Mask:255.255.255.0
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:1781 errors:0 dropped:0 overruns:0 frame:0
          TX packets:824 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:225143 (219.8 KiB)  TX bytes:348620 (340.4 KiB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:5493 errors:0 dropped:0 overruns:0 frame:0
          TX packets:5493 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:359483 (351.0 KiB)  TX bytes:359483 (351.0 KiB)

[root@virtualbox1253 ~]# █
```

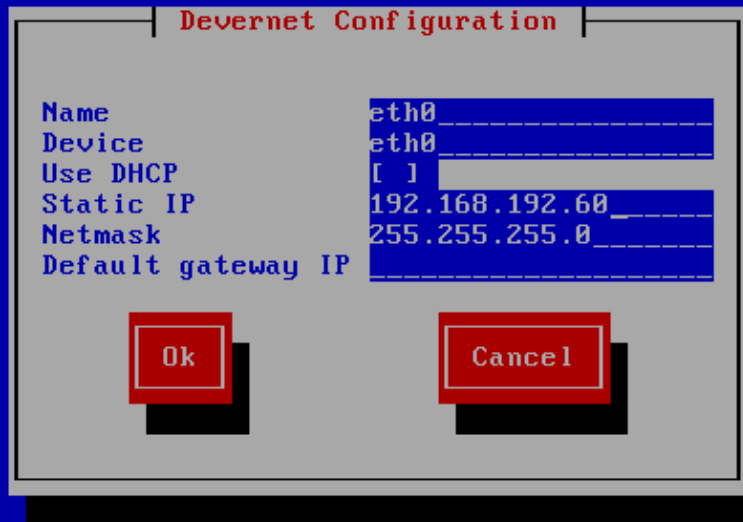
system-config-network

- If there is no DHCP server on the network the server will not get an IP address.
- Using the command `system-config-network` an IP address can be set statically and then used to login to the GUI
- Use the tab key on the keyboard to select Edit Devices
- Use the tab key on the keyboard to select eth0 and press enter
- Use the tab key on the keyboard to select elements.
- Use the space bar to uncheck or check DHCP.
- Use the keyboard to enter a Static IP as in this example.
- Use the tab key to select Ok.
- Press Enter when finished.

```
[root@virtualbox1253 ~]# system-config-network_
```



<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen



<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen

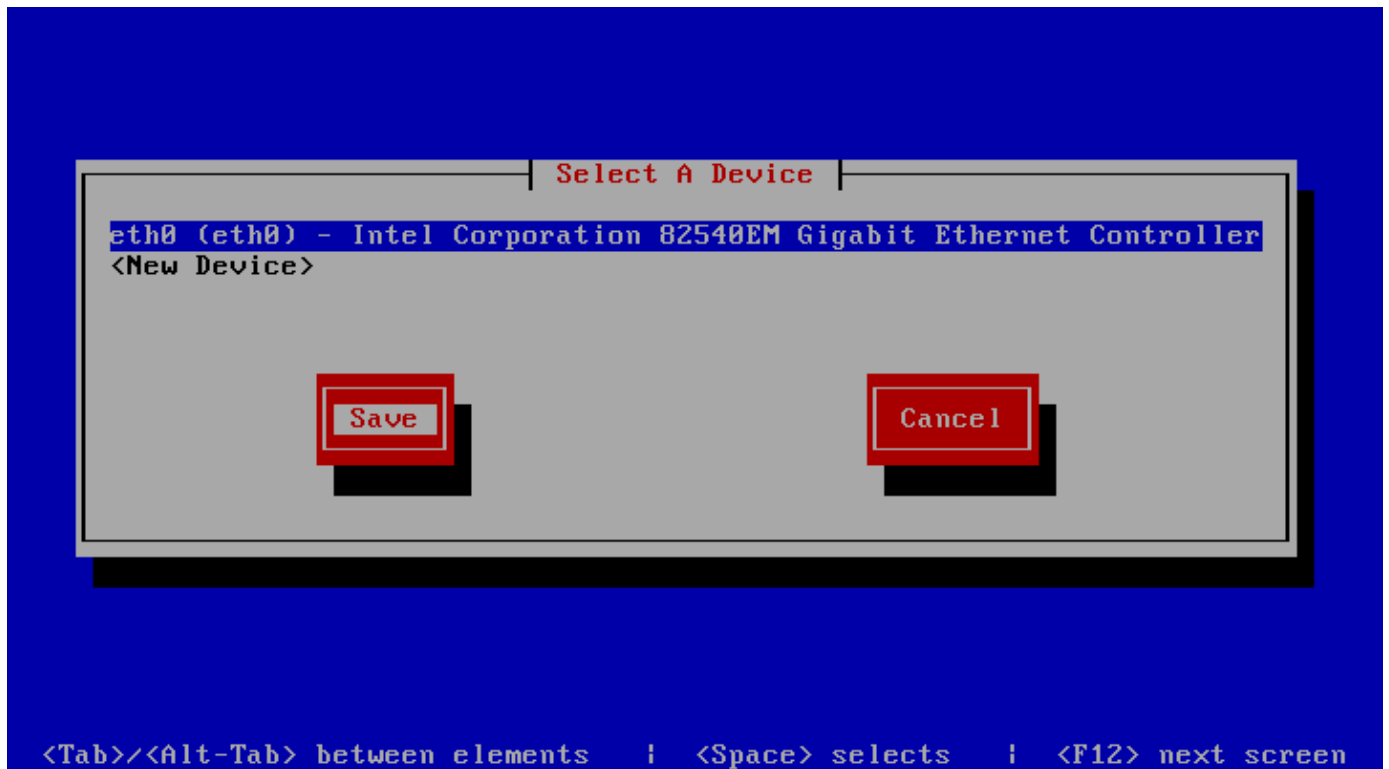
Server Module

system-config-network

- Use the tab key on the keyboard to select Save
- Press Enter when finished
- Use the tab key on the keyboard to select Save&Quit
- Press Enter when finished



<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen

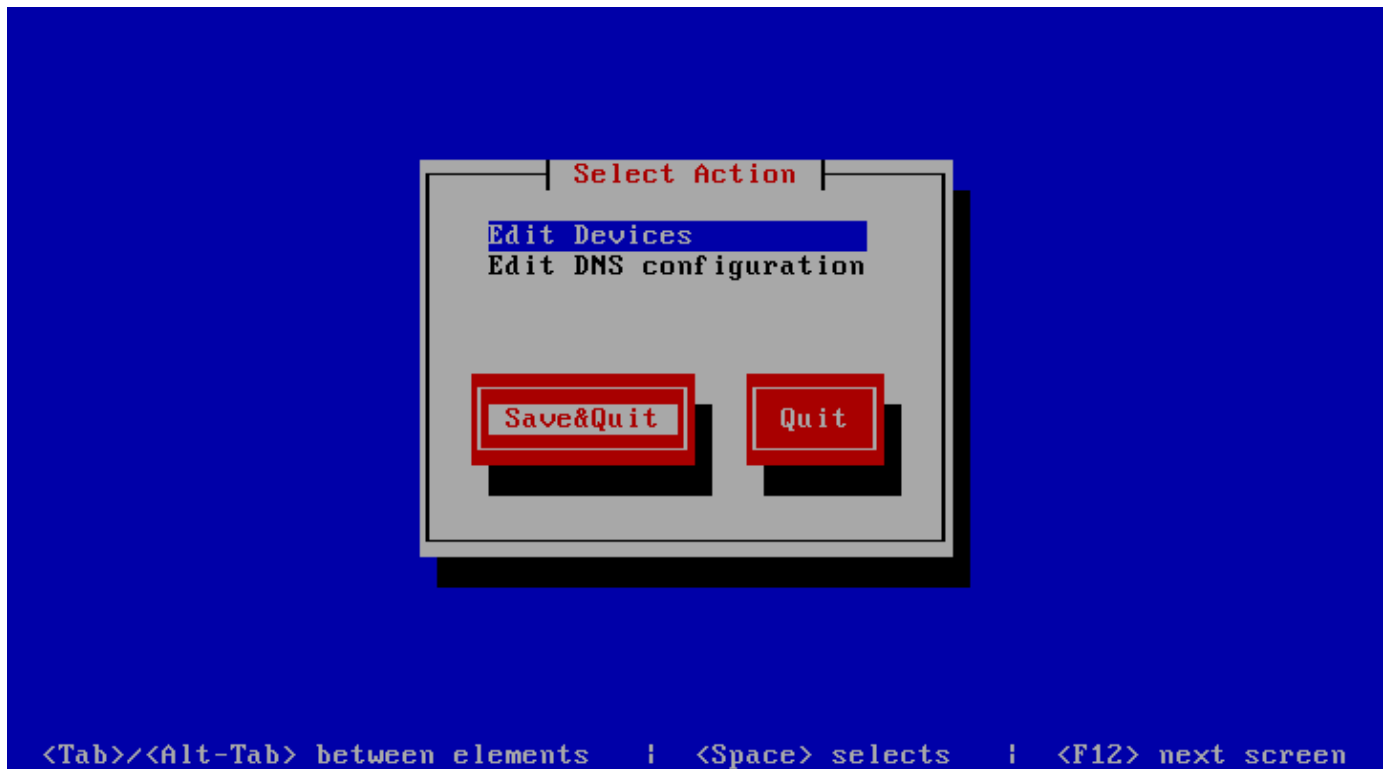


service network restart

From the root prompt type `service network restart` to restart the network with the new static IP address.

passwd

- If you need to change the default root password (recommended) then enter the command `passwd`.
- You will be prompted to enter your new password. twice to confirm the root password change.
- If you forget this password you will have to have a keyboard and monitor attached to the server.
- Interrupt the boot at the GRUB stage and boot to runlevel 1, AKA single user mode. Interrupt GRUB by typing a character such as "space" then append to the kernel line by typing "a", backspacing through "rhgb quiet" and appending " 1<enter>". This will give you a root shell and not a login prompt. From there you can use the "passwd" command to set a new root password.



Web GUI Login

- Open a web browser and use the IP address in the following format : `http://<ip address>:5555`
- Where `<ip address>` if the IP address of the server and the `:5555` is the listening port of the SCOPTEL web server.
- Example: `http://192.168.192.60:5555`
- The default login username is `admin`.
- The default admin password is `admin`.

```
[root@virtualbox1253 ~]# service network restart_
```

Configuration Wizard


- Before proceeding make sure you have your server's serial number handy so you can activate all of the menus and proceed with the configuration wizard.
- If you have the serial number proceed with the wizard by pressing Next.

```
login as: root
root@192.168.192.60's password:
Last login: Mon Jul 16 13:32:55 2012 from 192.168.192.55
[root@virtualbox1253 ~]# passwd
Changing password for user root.
New UNIX password:
BAD PASSWORD: it is based on a dictionary word
Retype new UNIX password:
passwd: all authentication tokens updated successfully.
[root@virtualbox1253 ~]#
```

EULA

- By clicking on Next on the EULA page you are agreeing to the terms of the SCOPSERV End User License Agreement.

ScopServ Telephony Server



SCOPSERV™

Username

Password

Language ▼

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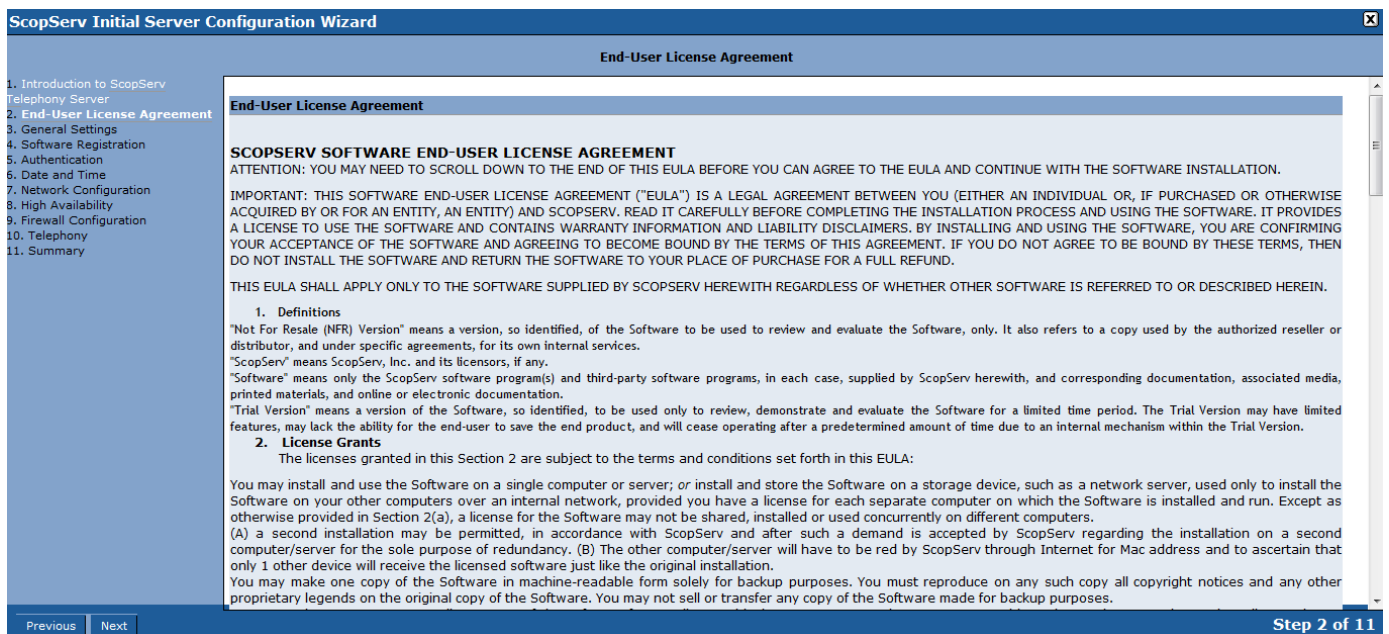
Listen Port

- The default GUI listening port is 5555
- Proxy information can be entered if the required Internet connection uses a proxy.
- To send voicemail or fax to email using a third party email server tick the Smart Relay check box and fill in the credentials needed to connect to the external email server.
- Click Next to proceed.



Registration Details

- Enter the Serial Number purchased from SCOPSERV and system details.
- Click Next.



Network Configuration

- Set the Fully Qualified Domain Name (FQDN) for the system.
- Set the network configuration as DHCP or static for the system. Static is recommended.
- Set the DNS server information for this system so the server can resolve domain names to IP addresses.

- NOTE: The system is a fully capable DNS server and can resolve DNS for the network but a third party DNS server can also be used.

- Press Next.

The screenshot shows the 'ScopServ Initial Server Configuration Wizard' at 'Step 3 of 11', titled 'General Settings'. On the left is a navigation pane with 11 steps: 1. Introduction to ScopServ Telephony Server, 2. End-User License Agreement, 3. General Settings (highlighted), 4. Software Registration, 5. Authentication, 6. Date and Time, 7. Network Configuration, 8. High Availability, 9. Firewall Configuration, 10. Telephony, and 11. Summary. The main area is divided into three sections: 'General' with a field for 'Listen on Port (Web GUI)' set to 5555 (default 5555); 'Proxy Settings' with 'Enable Proxy?' set to false; and 'SMTP Settings' with 'Enable 'Smart Relay' for Outgoing SMTP?' set to false. At the bottom are 'Previous' and 'Next' buttons, and the text 'Step 3 of 11'.

High Availability

- Enable or skip any required High Availability Settings.
- Press Next.

The screenshot shows the 'ScopServ Initial Server Configuration Wizard' at 'Step 4 of 11', titled 'Software Registration'. The left navigation pane highlights step 4, 'Software Registration'. The main area is titled 'License Informations' and contains several fields: 'Serial Number' (00000000-0000-00000-0, format 00000000-0000-00000-0), 'Company Name' (Your Company Name), 'Contact Name' (First Last), 'Contact Email' (enduser@domain.com), 'Phone Number' (555-555-1212), 'Street Address' (1234 End User St), 'City' (City), 'State/Province' (State), 'Country' (United States), and 'Zip/Postal Code' (12345). At the bottom are 'Previous' and 'Next' buttons, and the text 'Step 4 of 11'.

Firewall Type

- Since this example system only has a single network interface there is no option to choose a firewall/gateway mode.
- Choose single system to enable the firewall or no firewall to disable the firewall.
- If a firewall mode is chosen tick off the options to allow desired allowed inbound traffic.

ScopServ Initial Server Configuration Wizard

Network Configuration

1. Introduction to ScopServ Telephony Server
2. End-User License Agreement
3. General Settings
4. Software Registration
5. Authentication
6. Date and Time
7. Network Configuration
8. High Availability
9. Firewall Configuration
10. Telephony
11. Summary

General

* Hostname:

Network Configuration (LAN)

* Type:

DNS Configuration

* Primary: . . .

Secondary: . . .

Previous Next
Step 7 of 11

Locale

- Choose the language type that best suits your country profile to set the local tones and cadences configuration that best suits your local telco.
- The Server is behind NAT option is configured if the server is behind a third party NAT router. This setting manipulates SIP traffic to work behind the NAT router using the internal Session Border Controller (SBC).
- NOTE: If the server is behind NAT then ensure that the external firewall port forwards the TCP/UDP ports to the static IP address of the server.

Port examples:

- UDP/TCP 5060 SIP signaling
- UDP/TCP 10000-20000 SIP RTP traffic
- UDP 4569 IAX2 signaling and RTP traffic
- TCP 22 SSH management
- TCP 5555 SCOPTEL GUI
- UDP 123 NTP
- UDP 69 TFTP provisioning

ScopServ Initial Server Configuration Wizard

High Availability

1. Introduction to ScopServ Telephony Server
2. End-User License Agreement
3. General Settings
4. Software Registration
5. Authentication
6. Date and Time
7. Network Configuration
8. High Availability
9. Firewall Configuration
10. Telephony
11. Summary

General

Enable Automatic Failover (Heartbeat) ?

Enable Shared Network Storage (DRBD) ?

Enable Scheduled Replication (rsync) ?

Apply Changes and Reboot

- Review changes and tick on Apply Changes.
- Click Finish.
- Reboot Server when prompted.

The screenshot shows the 'Firewall Configuration' step of the ScopServ Initial Server Configuration Wizard. A warning message at the top states: 'Warning: This wizard will replace all current Firewall data for: Configuration, Inbound Services (Permit) and Outbound Services (Deny). These data will be LOST.' Below this, the 'Server Type' is set to 'Single System'. The 'Inbound Services (Allow)' section lists various services with checkboxes: ScopServ Web GUI, SSH/SFTP, VoIP (SIP/IAX/MGCP), Flash Operator Panel, DNS Server, Web Server, Web Server over SSL, FTP Server, TFTP Server, VPN Server (PPTP), Mail Services, Time Server (NTP), and DHCP Server (Public Interface).

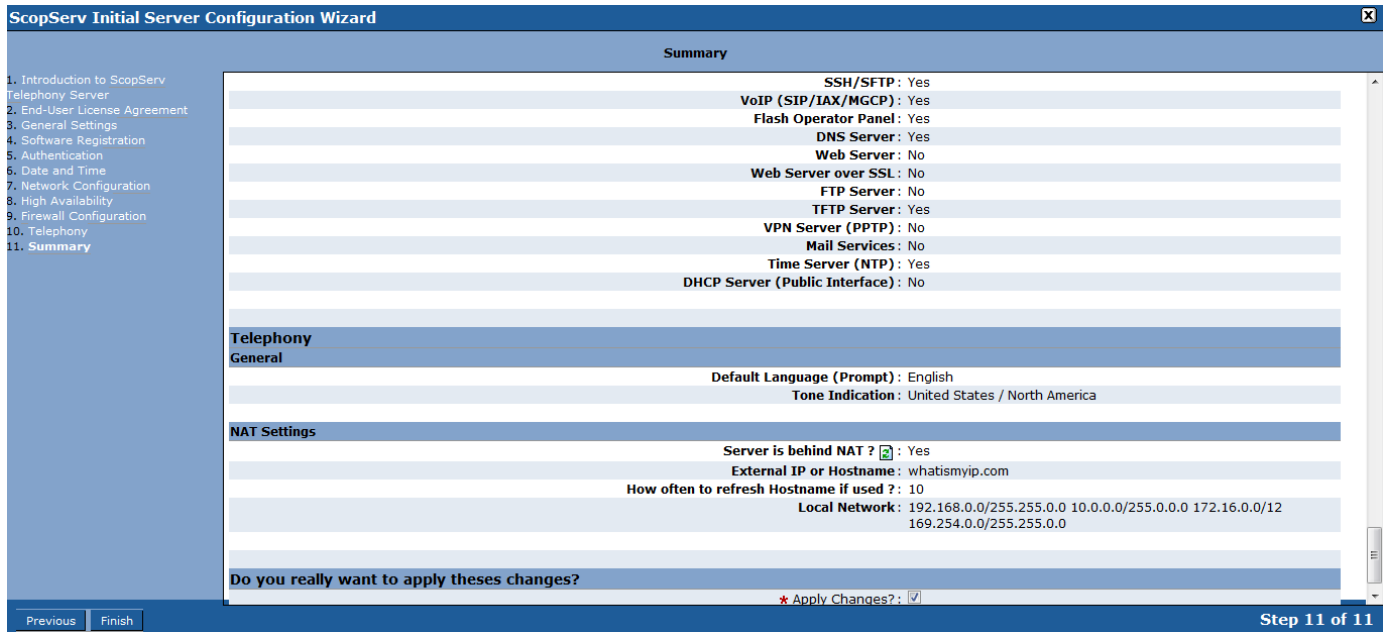
Update After Reboot

- Once the server is rebooted login again (use the new IP address if the ifconfig address was changed).
- From the Configuration>Server>Packages Manager menu tree click on the Update Now link to upgrade all of the system packages.

The screenshot shows the 'Telephony' step of the ScopServ Initial Server Configuration Wizard. It is divided into 'General' and 'NAT Settings' sections. In the 'General' section, 'Default Language (Prompt)' is set to 'English' and 'Tone Indication' is set to 'United States / North America'. In the 'NAT Settings' section, 'Server is behind NAT?' is checked, 'External IP or Hostname' is 'whatismyip.com', and 'How often to refresh Hostname if used?' is '10'. The 'Local Network' field contains the IP ranges: '192.168.0.0/255.255.0.0 10.0.0.0/255.0.0.0 172.16.0.0/12 169.254.0.0/255.255.0.0'.

Update All Packages

- Be patient while all updates are fetched and applied by the server.
- NOTE: If the annual software maintenance agreement is not current for the system serial number then no SCOPSERV updates will be fetched.



Telephony Module

Commit and Restart Asterisk

- If the SCOPSERV-telephonyX packages are updated then you will have to do a full commit on the Configuration>Telephony>Configuration page.
- If any Asterisk packages are updated then you will have to restart Asterisk from the Configuration>Telephony>General>Restart Telephony page.

** NOTE: Always do a full commit before restarting Asterisk/Telephony Server. **

