FreeBSD DRUID®
User Guide

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FreeBSD DRUID

The FreeBSD DRUID is an Installer for the FreeBSD Operating System, built on the DRUID architecture.
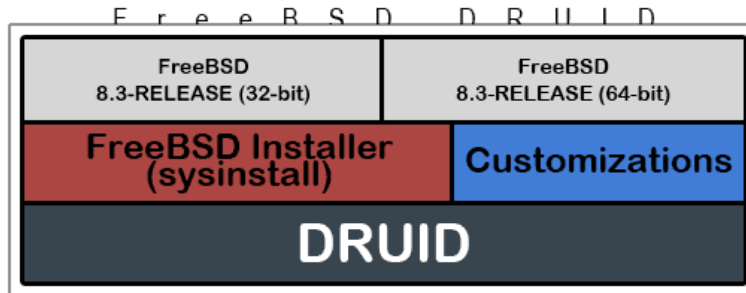
The DRUID architecture allows the distribution of a single bootable ISO-9660 file to field personnel where it can be written to either optical media, such as CD-R/W, DVD+/-R/W [DL], or USB flash media (aka Thumb Drive).

In this User Guide, you will learn how to use the FreeBSD DRUID to install the FreeBSD Operating System and configure it for network access.

Requirements

To install the FreeBSD Operating System, you first need to create a bootable device from the FreeBSD DRUID ISO-file. Necessary documentation and resources (ISO-file included) are located on the web at the following web-address:

`http://druidbsd.cvs.sourceforge.net/viewvc/druidbsd/druidbsd/druid83/`

Instructions on how to create a bootable FreeBSD DRUID are documented at:

`http://druidbsd.cvs.sourceforge.net/viewvc/druidbsd/druidbsd/druid83/src/tools/README.txt?revision=1.1&view=markup`

The above-mentioned `README.txt` file contains information for users of Microsoft Windows, Apple Mac OS X, Linux, and FreeBSD. Depending on which Operating System you are using, instructions will vary. At a minimum, however, you need one of the following to proceed:

- CD/DVD burner (internal or external) and blank media
- USB Flash Drive (aka Thumb Drive) with capacity 500MB or higher

Once you have a bootable device in-hand (CD/DVD or USB flash media), you are ready to proceed with the installation of the FreeBSD Operating System.

CRITICAL: Before proceeding, create a bootable FreeBSD DRUID using the resources at http://druidbsd.cvs.sourceforge.net/viewvc/druidbsd/druidbsd/druid83/src/tools/

NOTE: The FreeBSD DRUID is a stand-alone resource that, once-created, does not require any other information to install the FreeBSD Operating System.
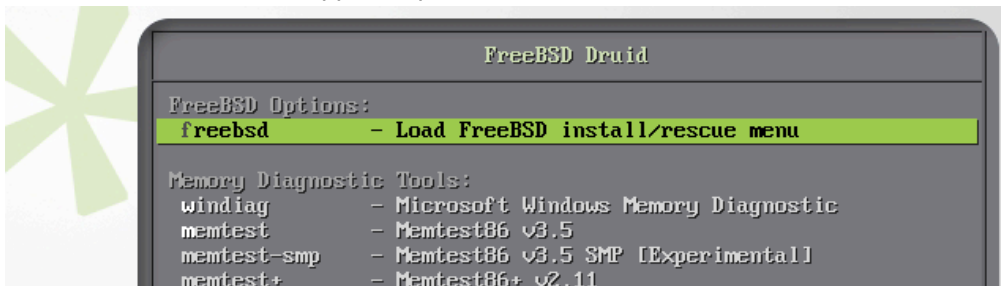
Installing FreeBSD

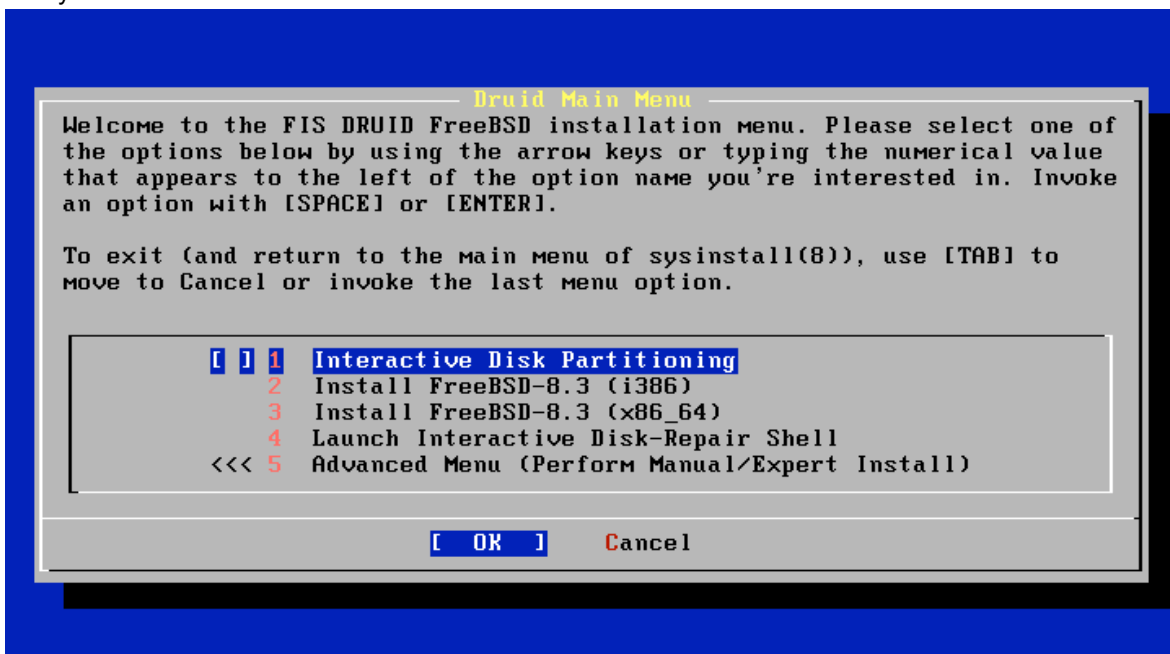**CAUTION:** Installing FreeBSD will wipe the target machine of all data.

1. Boot the target machine with the FreeBSD DRUID (CD/DVD or USB flash media). You must press ENTER to boot from DRUID rather than the internal hard drive.

```
Press ENTER to boot from CD...

boot: _
```

2. When the DRUID screen appears, press ENTER to load the FreeBSD menu.

```
                          FreeBSD Druid

FreeBSD Options:
  freebsd         - Load FreeBSD install/rescue menu

Memory Diagnostic Tools:
  windiag         - Microsoft Windows Memory Diagnostic
  memtest         - Memtest86 v3.5
  memtest-smp     - Memtest86 v3.5 SMP [Experimental]
  memtest+        - Memtest86+ v2.11
```

3. You are presented with a choice of FreeBSD operating systems to install. Choose the version that you wish to install.

```
                      ── Druid Main Menu ──
 Welcome to the FIS DRUID FreeBSD installation menu. Please select one of
 the options below by using the arrow keys or typing the numerical value
 that appears to the left of the option name you're interested in. Invoke
 an option with [SPACE] or [ENTER].

 To exit (and return to the main menu of sysinstall(8)), use [TAB] to
 move to Cancel or invoke the last menu option.

     [ ] 1  Interactive Disk Partitioning
         2  Install FreeBSD-8.3 (i386)
         3  Install FreeBSD-8.3 (x86_64)
         4  Launch Interactive Disk-Repair Shell
    <<< 5  Advanced Menu (Perform Manual/Expert Install)

              [  OK  ]     Cancel
```

When installation is complete, the screen displays `System Install Completed` in large green letters and starts a 15-second count-down timer to reboot.

NOTE: If installing from USB flash media, remove your thumb drive before the reboot, allowing the system to instead boot from the internal hard disk.

Configuring FreeBSD with Host-Setup

After booting your newly created FreeBSD host, you will get a login prompt. Log in as `root`. You will be prompted for a password, but none is required. Simply hit ENTER to log in.

After you log in, the host automatically starts the host-setup process. If host-setup does not start automatically, you can start it anytime by typing `host-setup` and pressing ENTER.

Host-setup presents a numbered list of actions to perform. Perform them in order, from top-to-bottom.
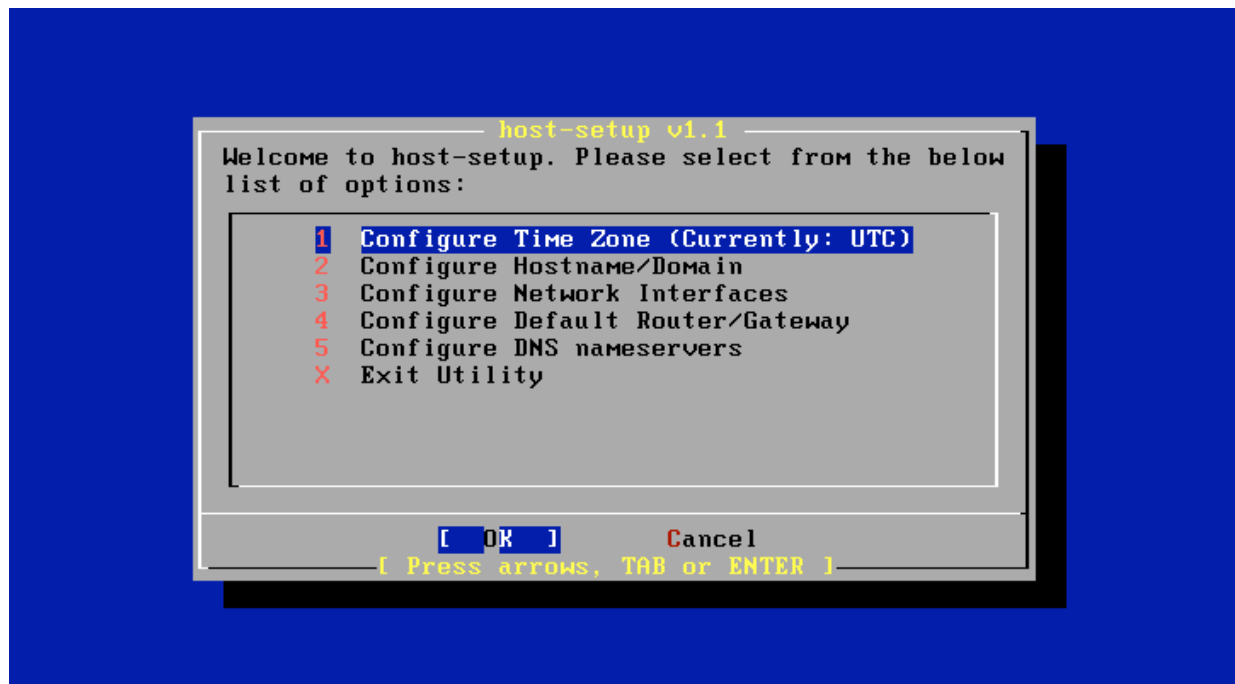
Configuring the Time Zone

1. Select the `Configure Time Zone` menu item.

2. Select your country and time zone on subsequent screens.

3. Exit to the host-setup menu.

Configuring the Hostname/Domain

1. Select the `Configure Hostname/Domain` menu item.

2. Enter the **fully-qualified** hostname of the host that you are setting up.
   For example, `your.new.host.com`.

3. Select `Yes` when you are asked whether to activate the new hostname.

NOTE: The `domain/search` portions of `resolv.conf(5)` are automatically configured on the new host using the information provided during this stage.

Configuring Network Interfaces

1. Select the `Configure Network Interfaces` menu item.

2. You are shown a list of network interfaces on the host. Select the `active` interface, which is marked with an asterisk.

   If there are no active interfaces, physically check your network connections and re-probe the interfaces by first selecting `Cancel` and then revisiting `Configure Network Interfaces`. If after checking network cables/connections you are still not presented with an active interface, please request technical assistance.

3. Select the `ipaddr` option, and then enter the IP address of the host that you are setting up.
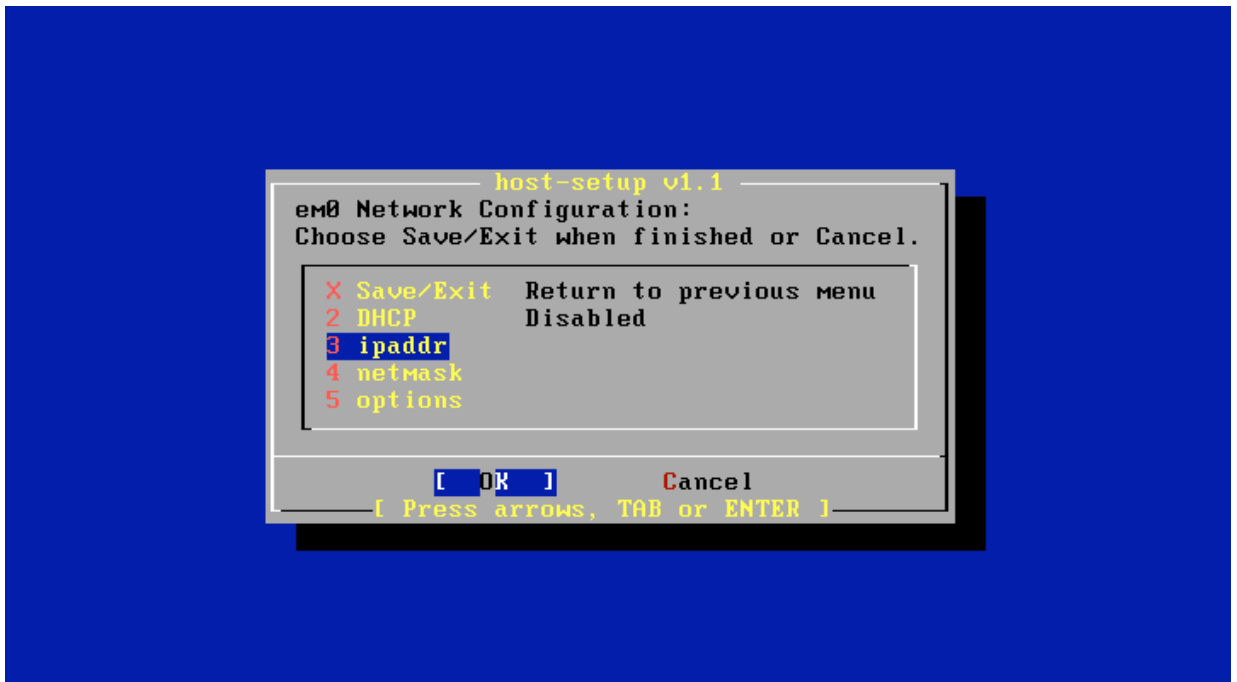
4. Select the `netmask` option and enter `255.255.255.0,` or whatever subnet mask is appropriate for your site.

5. If required, you may need to select `options` and then `media 100baseTX mediaopt full-duplex` (or whatever value is appropriate for your site) to hard-code the link-speed of your network interface to the network infrastructure. If unsure, leave this option blank.

6. Select `Save/Exit`.

7. Select `Yes` when you are asked whether you would like to bring the interface up.

NOTE: The IP address and subnet mask can be set at the same time using CIDR-notation in the `ipaddr` field. For example, `192.168.1.1/24` sets a subnet mask of `255.255.255.0,` saving you extra keystrokes.

Configuring the Default Router/Gateway

1. Select the `Configure Default Router/Gateway` menu item.

2. Enter the IP address of your default gateway.

Configuring DNS servers

1. Select the `Configure DNS Servers` menu item.

2. Select `Add.`

3. Enter the IP address of your Primary DNS server.

4. Repeat steps 2 and 3 for additional name servers.

5. Exit back to the host-setup main menu.