



amigopod

Adding a Hard Drive to Increase Available Disk Space

Unified Visitor Management

amigopod Technical Note

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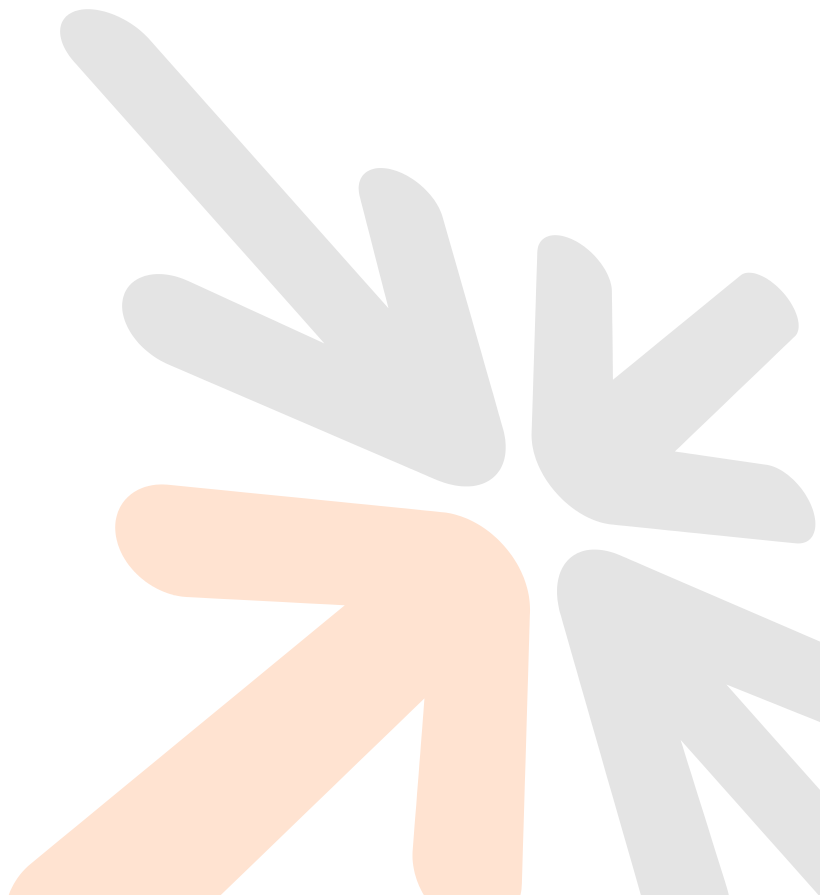


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Introduction

This technical note explains how to increase available disk space in a VMWare based appliance. Our default virtual machines ship with an 8 GB disk, which is suitable for most deployments. For a deployment requiring enhanced logging, or disk usage, this guide will step you through the required actions.

Note that the rack mount VMA appliances cannot have hard drives added. This guide is for virtual machines only.

Audience

This document is intended for network administrators and system integrators deploying an amigopod-based visitor management solution.

Basic familiarity with the amigopod Visitor Management Appliance is assumed. For in-depth information about the features and functions of the amigopod appliance, refer to the amigopod Deployment Guide.

Document Overview

The first section of the document explains adding a hard drive within VMWare.

The next section contains the steps within the Amigopod interface to detect and allocate the new disk.

Disclaimer

The topics of network design, security architectures and visitor access are complex subjects, and no single document can hope to cover all of the possible combinations of network equipment, network design, deployment requirements, and device configurations, nor can all the possible security implications for a particular recommendation be covered.

Therefore, while you read this document, it is best to consider it as a guide to developing your own understanding of the network design topics covered, and as a basis for further investigation.

Adding a Hard Drive


Please refer to your VMWare documentation for changes specific to your version and platform. This example uses Server 2.0.

Safely Power Off the VMA


Make sure the virtual machine is powered off. If VMWare is configured to send the soft reset signal to the operating system, this can be done within VMWare. To be safe, the Amigopod UI has a **Shutdown** action under **Administrator > System Control**.

- **Home**
 - ➔ Start Here
 - ➔ Language
 - ➔ Time Zone
 - ➔ Change Password
- **Guest Manager**
 - ➔ Start Here
 - ➔ Create Account
 - ➔ Create Multiple
 - ➔ List Accounts
 - ➔ Edit Accounts
 - ➔ Active Sessions
 - ➔ Import Accounts
 - ➔ Export Accounts
 - ➔ Customization
- **Reporting Manager**
 - ➔ Start Here
 - ➔ List Reports
- **Administrator**
 - ➔ Start Here
 - ➔ Backup & Restore
 - ➔ Content Manager
 - ➔ High Availability
 - ➔ Network Setup
 - ➔ Operator Logins
 - ➔ OS Updates
 - ➔ Plugin Manager
 - ➔ Security Manager
 - ➔ Server Time
 - ➔ **System Control**
 - ➔ System Config


Use the commands below to shutdown or restart this server.




Shutdown Now
Stop all services and start the OS power-down sequence immediately.



Reboot Now
Stop all services and reboot the system.




Restart Services
Restart all key system services without restarting the system.




Schedule Shutdown/Reboot
Setup a scheduled reboot or shutdown of the system.

More Options



System Configuration
Make changes to advanced system configuration parameters.



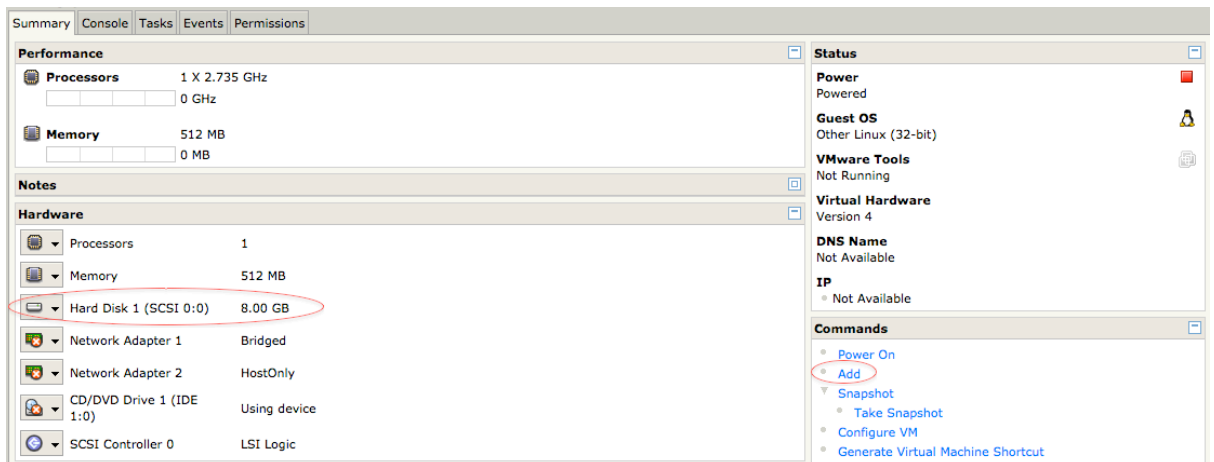
System Log Configuration
Make changes to the syslog configuration of the system.

Snapshot Virtual Machine

It is highly recommended to back up your virtual machine. This is best done by performing a snapshot. Some versions of VMWare may not allow hardware configuration changes while a snapshot is in place. If that is the case in your environment, you can safely perform a snapshot after the hardware wizard below.

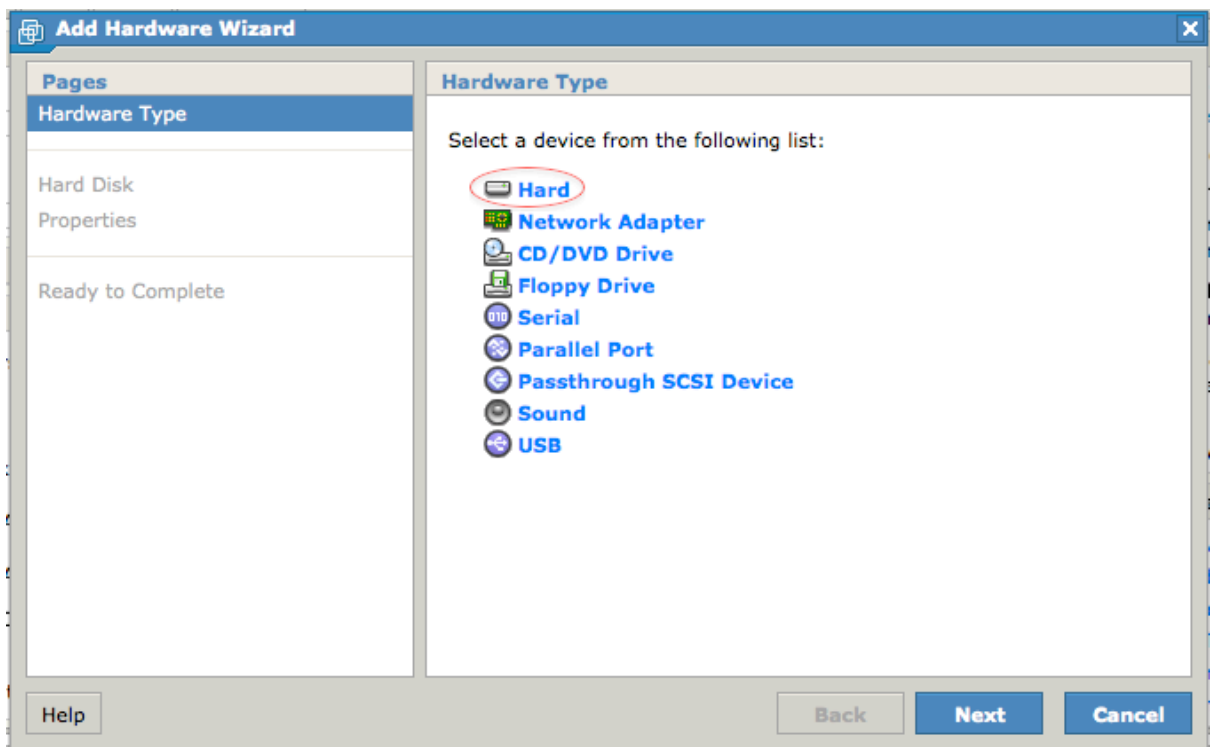
Add the Hard Drive

Log into the VMWare UI and select the virtual machine. You should see a single hard drive. Under commands, select **Add**.

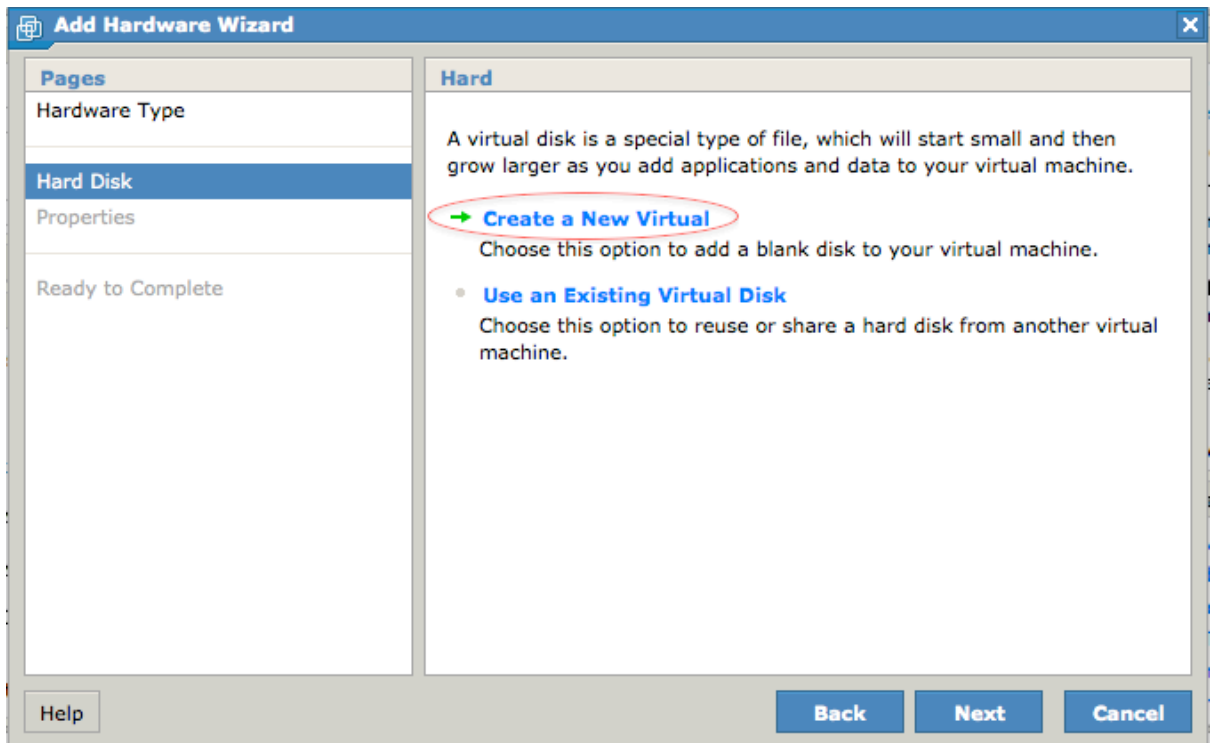


Run through the Add wizard and select the options that suit your deployment. In this example we will add a second 8 GB disk utilizing all the VMWare defaults.

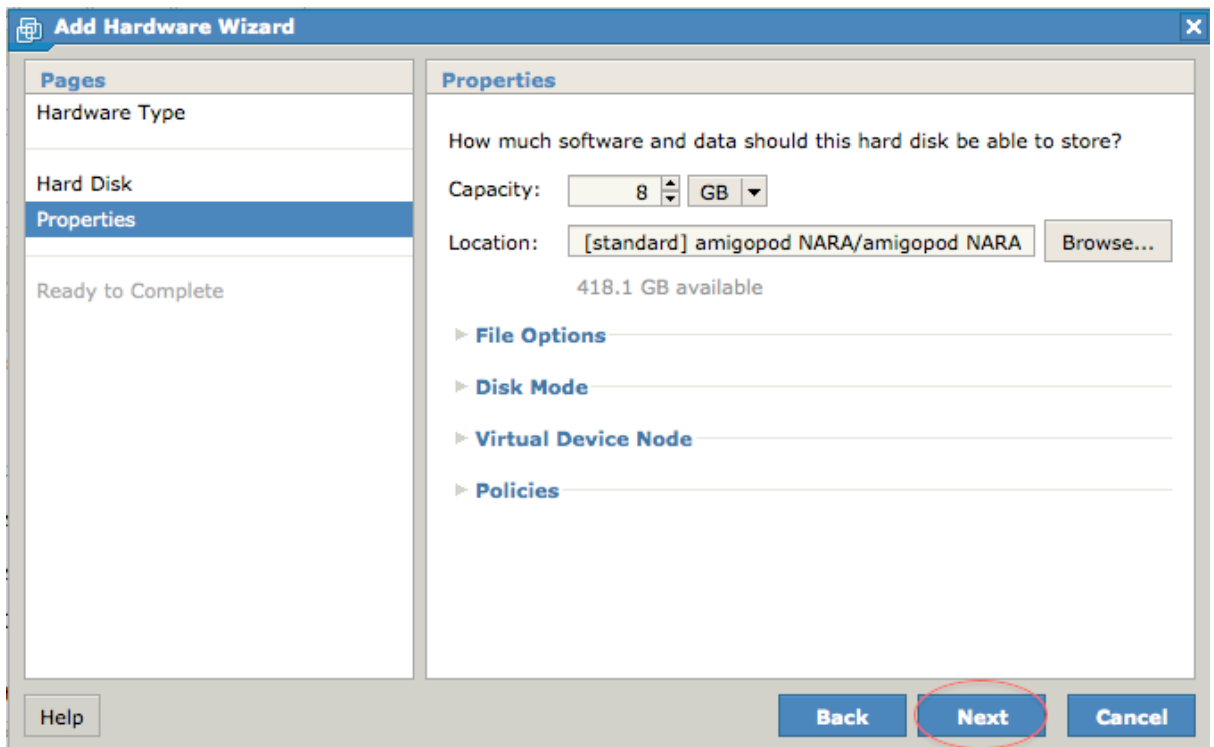
Select **Hard**.



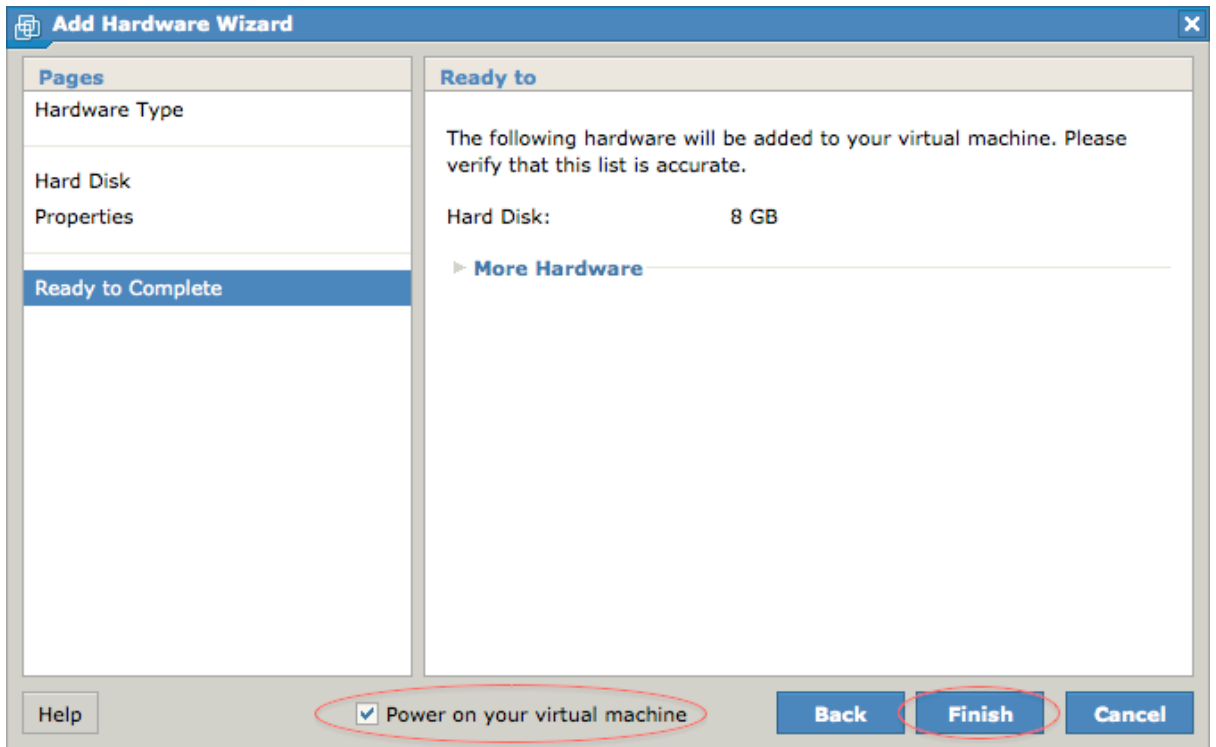
Select **Create a New Virtual**.



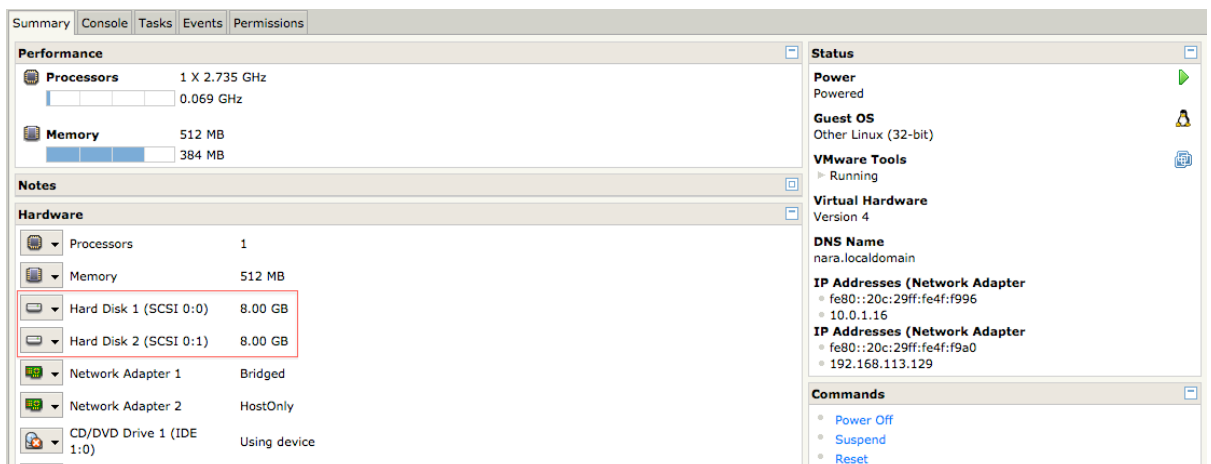
Select the hard drive options.



Finish the add hardware wizard and power on the server.



The VMA should power up and you should see two hard drives in its setup.



Allocating the New Hard Disk

Check Plugin Versions

Allocating extra disk space requires the following plugin versions:

- amigopod Administrator 3.0.2 or later

To verify you have the correct plugin versions installed, navigate to **Administrator > Plugin Manager > Manage Plugins** and check the version number in the list.

Use the **Update Plugins** link to download and install updated plugins.

Backup Configuration

It is important to take a full backup of your configuration under **Administrator > Backup & Restore > Configuration Backup**.

Confirm New Disk Detection

Navigate to **Administrator > System Information** and expand the **Storage** section. It should summarize two disks. The new disk (probably /dev/sdb) will display a warning regarding the disk “doesn’t contain a valid partition table”.

The screenshot shows the 'System Information' page in the Administrator interface. On the left is a navigation menu with 'System Information' selected. The main content area shows system statistics: Memory (503.2 MB total, 12.2 MB free) and Storage (2 disks, 16.0 GB). A detailed view of the storage section shows the following information:

```

Disk /dev/sda: 8589 MB, 8589934592 bytes
255 heads, 63 sectors/track, 1044 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes

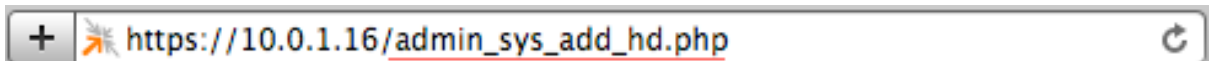
   Device Boot      Start         End      Blocks   Id  System
/dev/sda1  *            1           13        104391   83  Linux
/dev/sda2                14          1044       8281507+  8e  Linux LVM

Disk /dev/sdb: 8589 MB, 8589934592 bytes
255 heads, 63 sectors/track, 1044 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes

Disk /dev/sdb doesn't contain a valid partition table
    
```

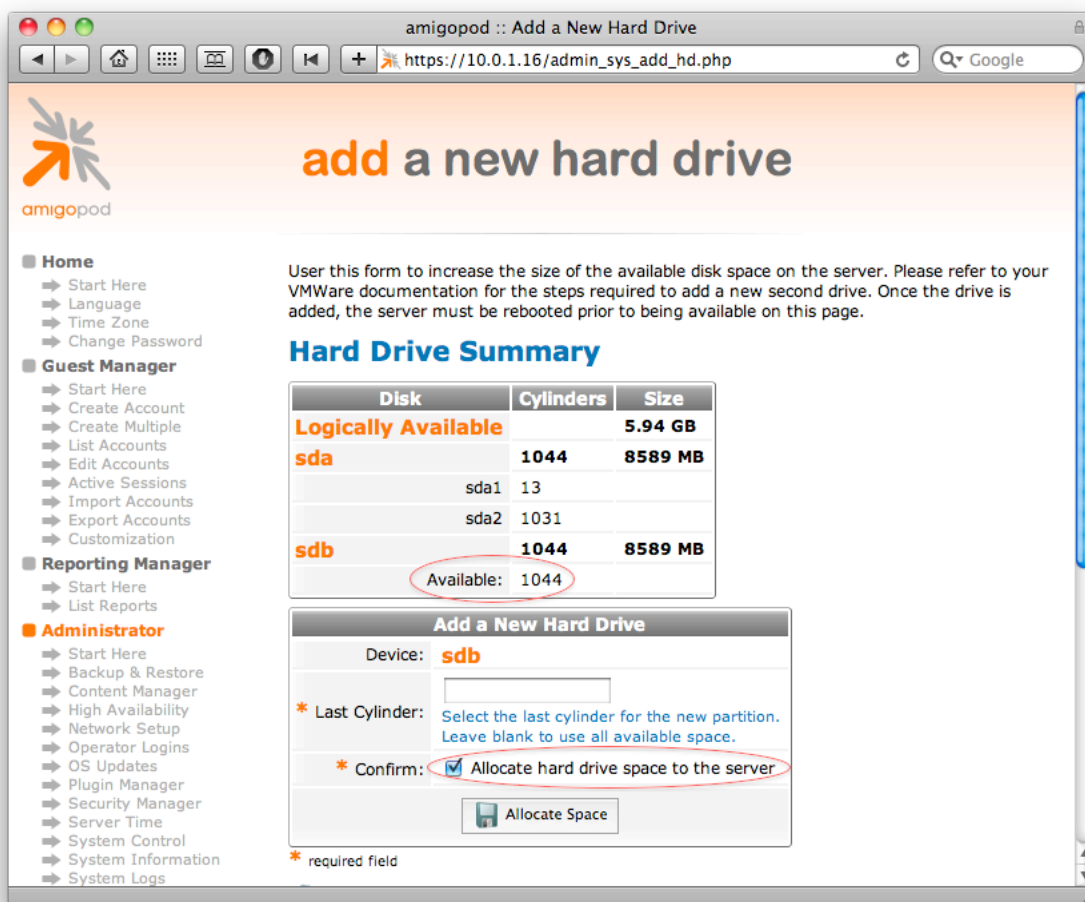
Allocate Space

This advanced feature is currently not available within the system navigation. Please manually type in the file `admin_sys_add_hd.php`.



The page should load and give a summary of the current status.

Confirm your desire to add the disk, and click **Allocate Space**.



NOTE Though we support adding multiple partitions, it is highly recommended to leave the Last Cylinder selection blank.

Depending on your disk size, **Allocate Space** should take about 10 seconds. If the action takes longer than 60 seconds, refresh the page (do not re-submit).

✓ Added new hard drive.

Hard Drive Summary

Disk	Cylinders	Size
Logically Available		13.91 GB
sda	1044	8589 MB
sda1	13	
sda2	1031	
sdb	1044	8589 MB
sdb1	1044	

If you return to the System Information page, you will see the new allocation.

- **Administrator**
 - ➔ Start Here
 - ➔ Backup & Restore
 - ➔ Content Manager
 - ➔ High Availability
 - ➔ Network Setup
 - ➔ Operator Logins
 - ➔ OS Updates
 - ➔ Plugin Manager
 - ➔ Security Manager
 - ➔ Server Time
 - ➔ System Control
 - ➔ **System Information**
 - ➔ System Logs
- **RADIUS Services**
 - ➔ Start Here
 - ➔ Server Control
 - ➔ Server Configuration
 - ➔ Authentication
 - ➔ Database List

Memory: 503.2 MB total, 6.2 MB free [More details](#)

Storage: 2 disks, 16.0 GB [More details](#)

Disk /dev/sda: 8589 MB, 8589934592 bytes
 255 heads, 63 sectors/track, 1044 cylinders
 Units = cylinders of 16065 * 512 = 8225280 bytes

Device	Boot	Start	End	Blocks	Id	System
/dev/sda1	*	1	13	104391	83	Linux
/dev/sda2		14	1044	8281507+	8e	Linux LVM

Disk /dev/sdb: 8589 MB, 8589934592 bytes
 255 heads, 63 sectors/track, 1044 cylinders
 Units = cylinders of 16065 * 512 = 8225280 bytes

Device	Boot	Start	End	Blocks	Id	System
/dev/sdb1		1	1044	8385898+	8e	Linux LVM

The space is now ready for use.