Name and operating system

Please choose a descriptive name for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

Name: freenas
Type: Linux
Version: Other Linux (64-bit)
Memory size

Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

The recommended memory size is **512 MB**.

4 MB 8192 MB
Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is 8.00 GB.

- Do not add a virtual hard disk
- Create a virtual hard disk now
- Use an existing virtual hard disk file

Go Back  Create  Cancel
Hard disk file type

Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.

- VDI (VirtualBox Disk Image)
- VHD (Virtual Hard Disk)
- VMDK (Virtual Machine Disk)
Storage on physical hard disk

Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).

A **dynamically allocated** hard disk file will only use space on your physical hard disk as it fills up (up to a maximum **fixed size**), although it will not shrink again automatically when space on it is freed.

A **fixed size** hard disk file may take longer to create on some systems but is often faster to use.

- Dynamically allocated
- Fixed size
File location and size

Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.

freenas1

Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.

4.00 MB  8.00 GB

2.00 TB
Add IDE Controller
Add SATA Controller
Add SCSI Controller
Add SAS Controller
Add Floppy Controller
Add USB Controller
Add NVMe Controller
Hard disk file type

Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.

- VDI (VirtualBox Disk Image)
- VHD (Virtual Hard Disk)
- VMDK (Virtual Machine Disk)
File location and size

Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.

nas2

Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.

8.00 GB

4.00 MB 2.00 TB
Choose Virtual Optical Disk File...

Remove Disk from Virtual Drive
FreeNAS-11.2-U2.iso
ISO Disk Image - 600.3 MB

Created: Today, 10:36 AM
This computer has less than the recommended 8 GB of RAM.
Operation without enough RAM is not recommended. Continue anyway?

< Yes >  < No >
Select one or more drives where FreeNAS should be installed (use arrow keys to navigate to the drive(s) for installation; select a drive with the spacebar).
WARNING:
- This will erase ALL partitions and data on da3.
- You can’t use da3 for sharing data.

NOTE:
- Installing on flash media is preferred to installing on a hard drive.

Proceed with the installation?
FreeNAS can be booted in either BIOS or UEFI mode.

BIOS mode is recommended for legacy and enterprise hardware, whereas UEFI may be required for newer consumer motherboards.

<Boot via UEFI>  <Boot via BIOS>
You have the Auto capture keyboard option turned on. This will cause the Virtual Machine to automatically capture the

AMD Features2=0x121<LAHF,ABM,Prefetch>

Structured Extended Features=0x1a21<TS/GSBASE,AUX2,INOPCTD,NF,PSG,RDSEED>

Structured Extended Features3=0x100000000

TSC: P-state invariant

Supervisor: Origin = "KVM""KVM"

real memory = 9831838208 (4608 MB)

real memory = 4031038208 (4608 MB)

avail memory = 4095344640 (3905 MB)

Event timer "LAPIC" quality 100

ACPI APIC Table: <U00X, U00XAPIC>

WARNING: UIMAGE (virtualized network stack) is a highly experimental feature.

ioapic= Changing APIC ID to 1

ioapic= <Version 2.0> irqs 0-23 on motherboard

Timecounter "TSC" frequency 16000038240 Hz quality 100

random: entropy device external interface

random: registering fast source Intel Secure Key RNG

random: fast provider: "Intel Secure Key RNG"

kbd at kbkmux0

nexus0

VtYga0: <VT VGA driver> on motherboard

cryptosoft: <software crypto> on motherboard

aesni0: <AES-CBC,AES-XTS,AES-GCM,AES-ICM> on motherboard

padlock0: No ACE support.
Tue Feb 19 10:41:04 PST 2019

FreeBSD/amd64 (freenas.local) (ttyv0)

Console setup

1) Configure Network Interfaces
2) Configure Link Aggregation
3) Configure VLAN Interface
4) Configure Default Route
5) Configure Static Routes
6) Configure DNS
7) Reset Root Password
8) Reset Configuration to Defaults
9) Shell
10) Reboot
11) Shut Down

The web user interface is at:

http://10.0.2.15

Enter an option from 1-11:
Tue Feb 19 10:41:04 PST 2019

FreeBSD/amd64 (freenas.local) (ttyv0)

Console setup

1) Configure Network Interfaces
2) Configure Link Aggregation
3) Configure VLAN Interface
4) Configure Default Route
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7) Reset Root Password
8) Reset Configuration to Defaults
9) Shell
10) Reboot
11) Shut Down

The web user interface is at:

http://10.0.2.15

Enter an option from 1-11: 1
Create or import pool

Create a pool:

- Create new pool
- Import an existing pool

CANCEL  CREATE POOL
## Pools

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Used</th>
<th>Available</th>
<th>Compression</th>
<th>Compression Ratio</th>
<th>Readonly</th>
<th>Dedup</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>datapool</td>
<td>dataset</td>
<td>6.63 MB</td>
<td>11.28 GB</td>
<td>lz4</td>
<td>77.98x</td>
<td>false</td>
<td>off</td>
<td></td>
</tr>
</tbody>
</table>
### Pools

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Used</th>
<th>Available</th>
<th>Compression</th>
<th>Compression Ratio</th>
<th>Readonly</th>
<th>Dedup</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>datapool</td>
<td>dataset</td>
<td>8.43 MB</td>
<td>11.28 GB</td>
<td>lz4</td>
<td>66.49x</td>
<td>false</td>
<td>off</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- **Healthy:** No errors or warnings
- **Usage:** 8.43 MB Used / 11.28 GB Available
- **Compression:** lz4
- **Compression Ratio:** 66.49x
- **Readonly:** False
- **Dedup:** Off
### Pools

**datapool**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Used</th>
<th>Available</th>
<th>Compression</th>
<th>Compression Ratio</th>
<th>Readonly</th>
<th>Dedup</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>iscsi-data</td>
<td>dataset</td>
<td>117.22 KB</td>
<td>11.28 GB</td>
<td>Inherits (lz4)</td>
<td>1.00x</td>
<td>false</td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>nfs-data</td>
<td>dataset</td>
<td>117.22 KB</td>
<td>11.28 GB</td>
<td>Inherits (lz4)</td>
<td>1.00x</td>
<td>false</td>
<td>false</td>
<td></td>
</tr>
<tr>
<td>smbd-data</td>
<td>dataset</td>
<td>117.22 KB</td>
<td>11.28 GB</td>
<td>Inherits (lz4)</td>
<td>1.00x</td>
<td>false</td>
<td>false</td>
<td></td>
</tr>
</tbody>
</table>
## Samba

<table>
<thead>
<tr>
<th>Path</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No data to display

1 - 1 of 1
### Samba

<table>
<thead>
<tr>
<th>Path</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>smb-data</td>
<td>/mnt/datapool/smb-data</td>
</tr>
</tbody>
</table>

1 - 1 of 1
### Target Global Configuration

<table>
<thead>
<tr>
<th>Portals</th>
<th>Initiators</th>
<th>Authorized Access</th>
<th>Targets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extents</td>
<td>Associated Targets</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Portals

<table>
<thead>
<tr>
<th>Portal Group ID</th>
<th>Listen</th>
<th>Comment</th>
<th>Discovery Auth Method</th>
<th>Discovery Auth Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.0.0.0:3260</td>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 - 1 of 1
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group ID</td>
<td></td>
</tr>
<tr>
<td>User</td>
<td></td>
</tr>
<tr>
<td>Secret</td>
<td></td>
</tr>
<tr>
<td>Secret (Confirm)</td>
<td></td>
</tr>
<tr>
<td>Peer User</td>
<td></td>
</tr>
<tr>
<td>Peer Secret</td>
<td></td>
</tr>
<tr>
<td>Peer Secret (Confirm)</td>
<td></td>
</tr>
</tbody>
</table>

- Fields marked with an asterisk (*) are required.
- Fields with an eye icon (ıld) can be hidden or shown as needed.
- The 'Save' button is available to save the changes.
<table>
<thead>
<tr>
<th>Target Name</th>
<th>Target Alias</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data to display</td>
<td></td>
</tr>
</tbody>
</table>

1 - 1 of 1
<table>
<thead>
<tr>
<th>Target Name</th>
<th>targetname</th>
<th>項</th>
<th>[superblock]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Area</td>
<td>targetarea</td>
<td>項</td>
<td>[postscript]</td>
</tr>
<tr>
<td>Initiator Group ID</td>
<td>initiator_group_id</td>
<td>項</td>
<td></td>
</tr>
<tr>
<td>Auth Method</td>
<td>auth_method</td>
<td>項</td>
<td></td>
</tr>
<tr>
<td>CHAP</td>
<td>chap</td>
<td>項</td>
<td></td>
</tr>
<tr>
<td>Authentication Group number</td>
<td>authentication_group_number</td>
<td>項</td>
<td></td>
</tr>
</tbody>
</table>

[SAVE] [CANCEL] [ADD EXTRA ISCSI GROUP]
### Pools

**datapool**

<table>
<thead>
<tr>
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<th>Used</th>
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<th>Compression</th>
<th>Compression Ratio</th>
<th>Readonly</th>
<th>Dedup</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>datapool</td>
<td>dataset</td>
<td>9.04 MB</td>
<td>11.28 GB</td>
<td>1:4</td>
<td>62.64x</td>
<td>false</td>
<td>off</td>
<td></td>
</tr>
<tr>
<td>iso-data</td>
<td>dataset</td>
<td>117.22 KB</td>
<td>11.28 GB</td>
<td>Inherits (1:4)</td>
<td>1.00x</td>
<td>false</td>
<td>off</td>
<td></td>
</tr>
<tr>
<td>nfs-data</td>
<td>dataset</td>
<td>117.22 KB</td>
<td>11.28 GB</td>
<td>Inherits (2:4)</td>
<td>1.00x</td>
<td>false</td>
<td>off</td>
<td></td>
</tr>
<tr>
<td>smb-data</td>
<td>dataset</td>
<td>117.22 KB</td>
<td>11.28 GB</td>
<td>Inherits (2:4)</td>
<td>1.00x</td>
<td>false</td>
<td>off</td>
<td></td>
</tr>
</tbody>
</table>

**Status:** HEALTHY 9.04 MB (0%) Used / 11.28 GB Free
Add Zvol

- Name: scale-zvol
- Size: 1 GiB
- Comments:
- Sync: Inher (standard)
- Compression: None
- ZFS Snapshot: Inher (off)
- Sparse: 

Buttons: SAVE, CANCEL, ADVANCED MODE