

# Disks|Software RAID|RAID5



The option to create a GEOM RAID5 has been removed from the WebGUI. We encourage users to use ZFS RAIDZ1 (or better) instead.

This menu is for creating a Software RAID5. RAID5 provides a good redundancy while keeping costs low.

If one drive fails all data are still accessible. After replacing the failed drive the RAID5 has to rebuild to provide redundancy.



Important - RAID does not make a backup of your data redundant. Even if you create a RAID array, you should back up your data regularly and save it a different location.

The minimum requirement are 3 drives of same size.

For optimal performance it is suggested to use identical hard drives.

This means:



- same Manufacturer
- same Speed
- same Size

Though, to increase data safety, it is sometimes a good idea to use drives from different production dates to help avoid having multiple drives from a bad batch fail at once or in close interval.

This Software RAID module is based on [w Geom\\_raid5](#).

For more Information see:

## FreeBSD Manualpage:

- [geom](#) - universal control utility for GEOM classes

## Disks | Software RAID | RAID5 | Management

This menu gives you and overview about existing RAID5 arrays. The example below shows an already configured and running RAID5 out of 3x 50GB disk.

The screenshot shows a web interface for RAID management. At the top, there are tabs for 'JBOD', 'RAID 0', 'RAID 1', 'RAID 5', and 'RAID 0/1/5'. Below these are sub-tabs for 'Management', 'Tools', and 'Information'. The main content area displays a table with the following data:

Volume Name	Type	Size	Status
myRAID5	5	102400MB	COMPLETE

Below the table, there is an 'Info' section stating: 'Info: GEOM Raid5 is used to create RAID5 volumes.' To the right of the table, there are icons for settings (wrench), delete (red X), and add (+).

## Disks|Software RAID|RAID5|Add

This menu is for selecting which drives do you want to use to create a RAID5. In this example the RAID5 shown above will be created.

### Raid name

Select a name for your RAID array. This name will be shown on different places in the WebUI. ( example: [Disks|Format](#) )

### Type

Shows the type of RAID you are currently creating.

- RAID 5 (rotated block-interleaved parity)

### Provider

Here you can select the disks you want to use.

### Initialize

Check this box to create and initialize your RAID.

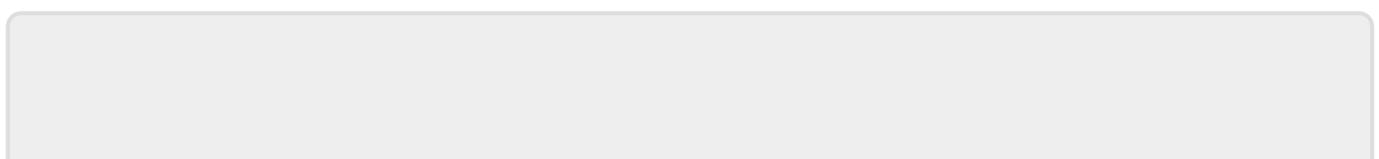
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After "Applying" on **Disks | Software RAID | RAID5 | Management** your RAID5 should be shown as "REBUILDING". Depending on the size of the drives this could take several hours.

When Status change to "COMPLETE" your drive should be ready to use.

The next steps are usually:

1. [Format the the RAID](#)
2. [and Mount it](#)



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