

Configuring your Host

If you select the Host in the tree view, information about it is shown in the details view. This information is divided into four tabs: Host info, Pools, Guests and Network. At this point, the Pools and Guests tab should be empty. You can find more information about them in the Administration Guide.

Host info tab

This tab displays basic information about the *Host*, and a summary of its available resources.

Name [Address]
flexdev01 [10.111.8.10]

Description

VDI Address
demo01.flexvdi.com

CPU type
Intel(R) Xeon(R) CPU X5675 @ 3.0...

Hypervisor
flexVDI Agent v2.2.29

Error message
The operation was successfully completed.

CPU usage	
Physical cores	24
CPU overcommit	4.0
Total virtual	96
Reserved (Used/Total)	36/68
Not reserved	28

RAM usage	
Physical RAM	94 GB
RAM overcommit	1.5
Total virtual	141 GB
Reserved (Used/Total)	60/136 ...
Not reserved	5 GB

The table on the left shows:

- Current and desired state. If they differ, the Manager will try to bring the *Host* to the desired state.
- Name, address and description.
- VDI address: This is the IP address/name reported to the VDI clients to connect to. This is required when the *Host* has a public and a private address.
- CPU type and Hypervisor version.
- Message provided by the Host's agent in case of error.

The graphs on the right show a summary of the available resources in this *Host*. *Hosts* provide CPU and RAM resources to *Guests*. The total resources offered by a *Host* consist of its physical resources adjusted by an overcommit factor. By overcommitting, a *Host* can offer more resources than actually available.

Resources must be first reserved by a *Pool*, then used by a *Guest* of the *Pool*. The bar graphs show how much resources are in use by *Guests*, how much are free, and how much are not reserved by any *Pool*. Next to the graphs there is also the same information in numeric form, and a relation of physical and overcommitted resources.

Network tab

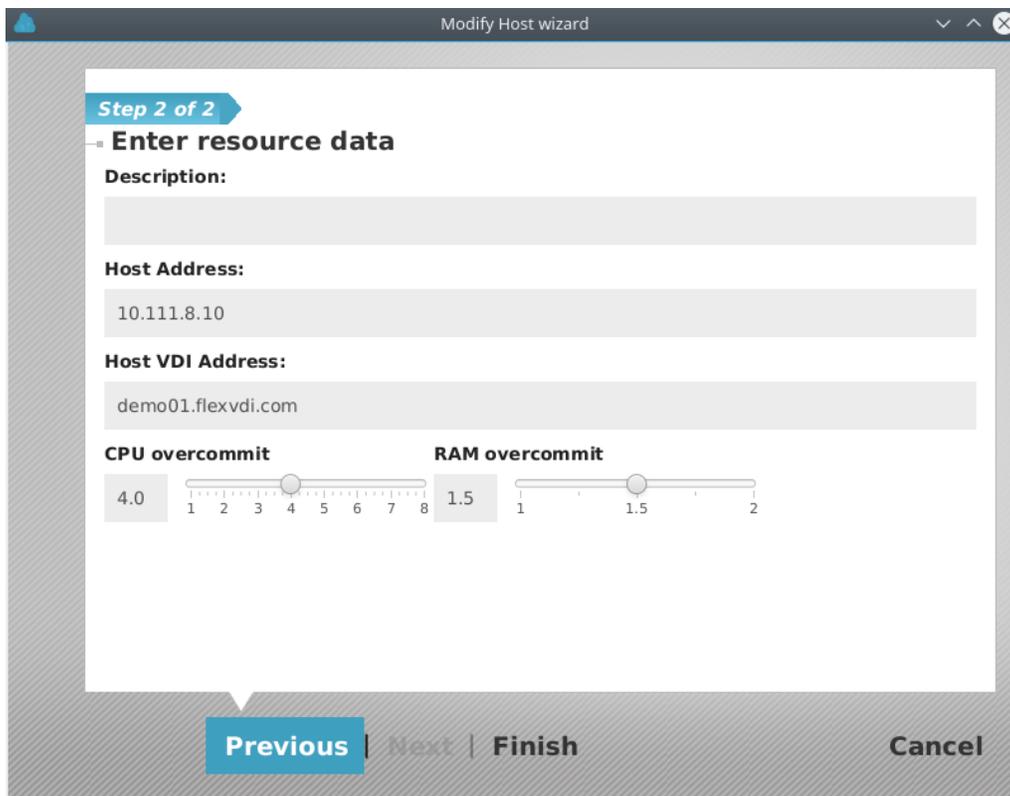
This tab shows the network interfaces available to the selected *Host*, which can be configured with the *flexVDI Config* tool:

- Physical interfaces.
- Bridge interfaces.
- Bonding interfaces.
- VLAN interfaces.



Configure the Host's resources

Right-click on the Host in the tree view, and select Modify in the popup menu. A wizard will show to modify some of the properties of your Host:



With this wizard you can modify:

- A description for the Host.
- The Host's IP address as seen by the Manager. This is the address the Manager will use to communicate with the Host.

- The Host's VDI address as seen by the Clients. This is the address that will be notified to a client when it wants to connect with a guest that is running in this Host. This is most useful when the Host has a private address in the Manager subnet, and a public address to receive Client connections.
- CPU and RAM overcommit, as a factor by which physical resources are multiplied.

As stated before, overcommitting allows the Host to report more resources than physically available. Overcommitting CPU resources is very useful, because it is a time-shared resource. It allows to run several virtual machines on the same CPU, reducing its idle time and optimizing its utilization. Besides, it is safe to overcommit the CPU, because in case of congestion the system will gracefully degrade its performance, allowing the administrator to solve the problem. On a typical desktop (web browsing, office applications, etc...), a CPU overcommit factor of 4 is recommended. If you plan to run more CPU-intensive tasks, start at 1 and increase the value until you feel comfortable.

On the other hand, overcommitting RAM resources is not recommended at all. RAM is not a shared resource, each Guest gets an exclusive amount of it. If the physical RAM is exhausted, the system will start to use swap space (if available), and the performance of both the Guests and the Host will be severely affected. Do it under your own responsibility.

In order to avoid removing resources from a Host that has Guests running, you always can increase the overcommit factors of a Host, but you must disable it first to decrease them.