

VIRTUALBOX NETWORKING MODES

a) VirtualBox offers [eight networking modes](#) to connect a virtual machine to the host and to external networks: NAT, Bridge Adapter, Internal network, Host-only adapter, Generic driver, NAT Network, Cloud Network and Not attached, .

During the current academic year, we will work with two of this network modes:

- NAT: for activities sm1act01 and sm1act02
- Bridge Adapter: from now until the end of the academic year.

b) How NAT works:

- NAT is the default option
- The VM sits in a private network with a virtual IP and reaches the outside through the host, which acts as gateway.
- It is isolated from the external network, so it is secure.

c) How Bridged adapter works:

- The VM behaves as a standalone device on the physical network and gets its own unique IP address, with full access to the network.
- It may need manual configuration of the VM's network

d) From now until the end of the academic year, we will work in **Bridged Adapter mode**.