Virtual Box

Oracle Virtual Box provides a simple virtualisation environment for testing configurations. Most notably we can use OVB to provide test guest OS environments for MFEL.

However, the networking can be a little tricky. So here is a small guide on getting your VM working on a network.

Network Modes

For network configuration, VirtualBox (5.1) provides the following network modes:

- Not attached" mode (not connected)
- Network Address Translation (NAT)
- Nat Network
- Bridged networking (network bridge)
- Internal networking (internal network)
- Host-only networking (Host-only adapter)
- Generic

Not attached

In this mode, the guest system will see a network card, whose (virtual) cable has been disconnected.

NAT

NAT is the simplest option from the point of view of the guest system for accessing external networks. External access to the guest system (such as accessing a web server installed on a guest system) is not possible.
Note: Even from the host system, the services on the guest system cannot be accessed. If access should be possible, an additional interface can be configured using Host-only networking.

Bridged Networking

In this mode, the guest system will receive direct access to the network, to which the host system has been connected.

Internal Networking

Only those guest systems that have been connected to the same internal network will be able to communicate with each other in the internal network configuration. Communication with the host system or another network outside of VirtualBox will not be possible.

Host-only Networking

In this mode, communication between connected guest systems and the host system is possible.

==== Generic networking For the Generic networking Mode there are two possible Sub-Modes:
• UDP Tunnel • VDE (Virtual Distributed Ethernet) networking

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