

# APPLICATION NOTE

## Installation of RFM\_VM on an ESXI server

- ESXI server installation
- ESXI server configuration
- RFM\_VM installation
- RFM\_VM starting
- RFM\_VM configuration

Latest update : **24/11/2022**

## 1) PREAMBULE

The VMware ESXI 7.0 server ISO file can be downloaded free of charge after registration on the VMWARE website.

<https://customerconnect.vmware.com/fr/evalcenter?p=free-esxi7>

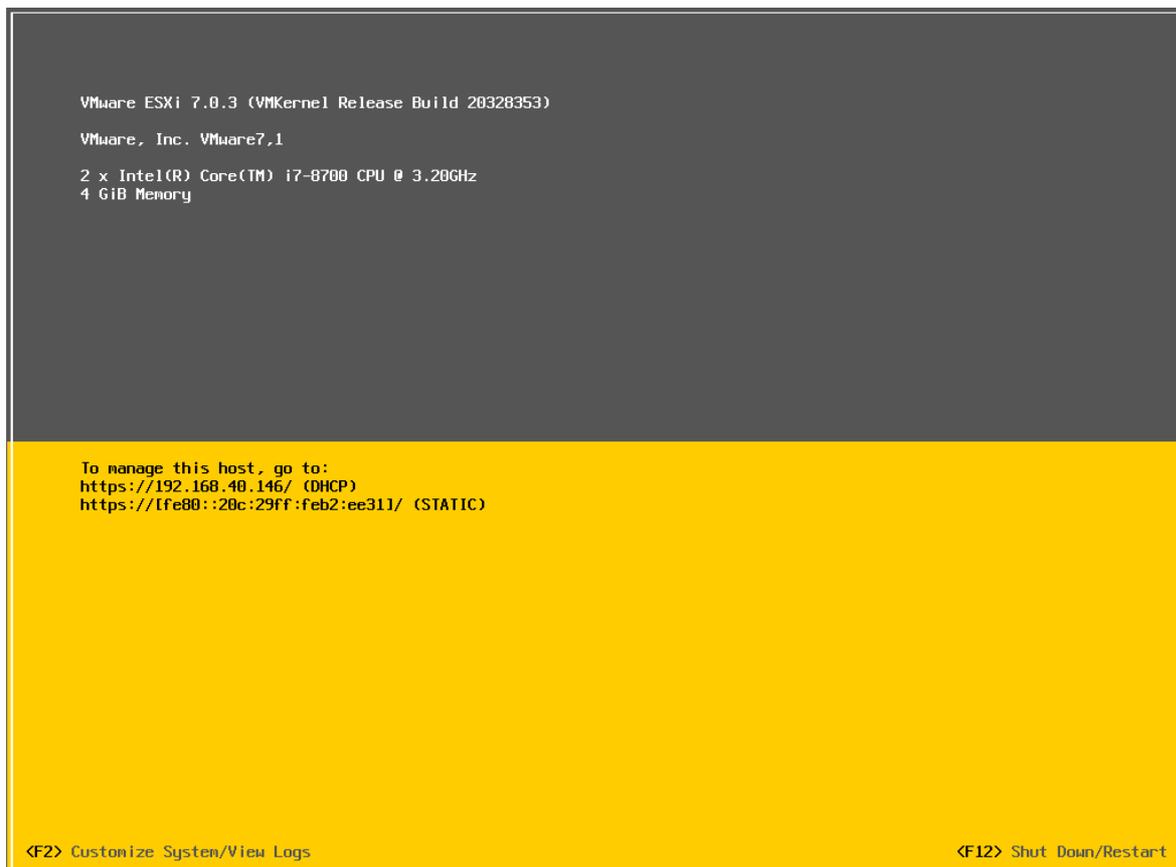
The ESXI server can be installed directly on a physical machine (type 1 hypervisor) which is recommended to use its resources directly or started from the VMWARE Workstation hypervisor.

In our application example, the ISO image of the ESXI server is mounted in the VMWare Workstation hypervisor environment.

Our Workstation hypervisor network is setting with a virtual network interface and a physical network interface.

## 2) ESXI SERVER INSTALLATION

Start the installation with the ISO file downloaded from the VMWare site.



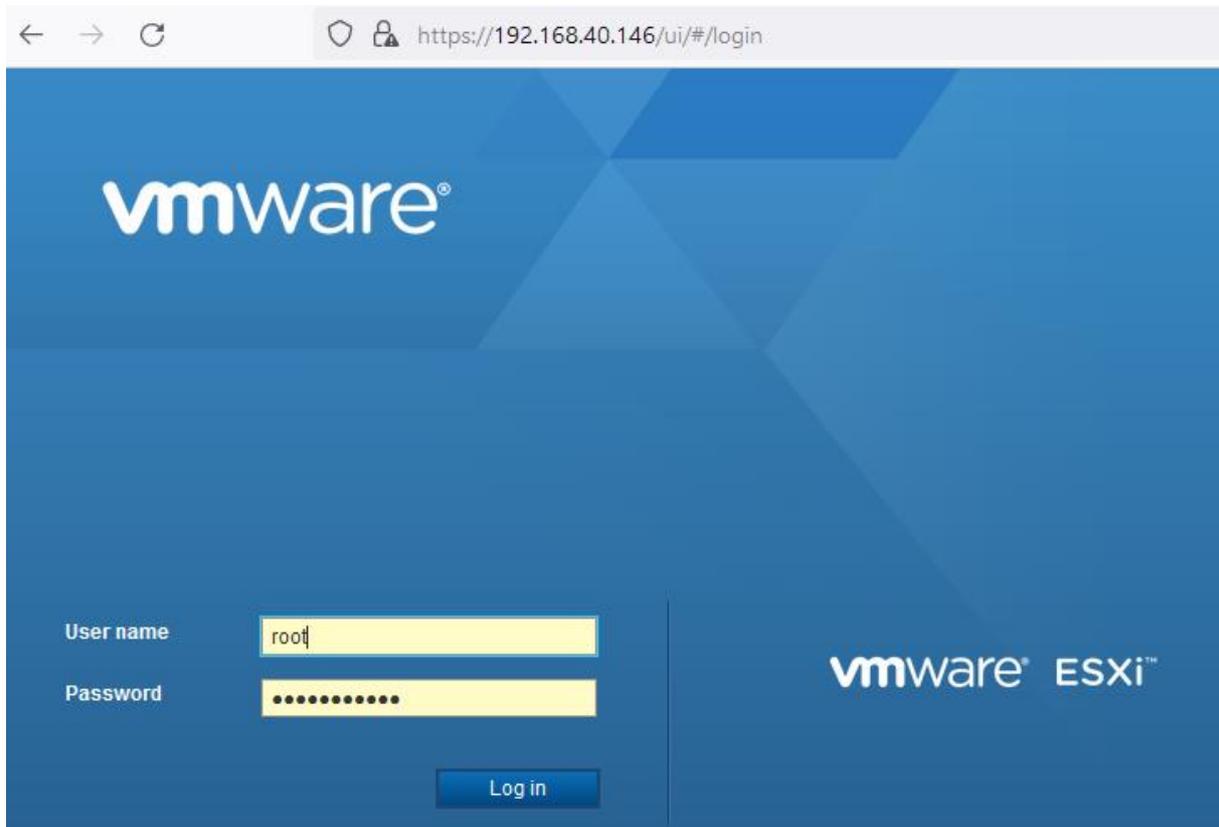
A password is requested during the installation.

The default login "root" and this password will be used for the ESXI administration.

When the installation is finished, ESXI server show its IP administration obtained by the virtual network DHCP server.

### 3) ESXI SERVER CONFIGURATION

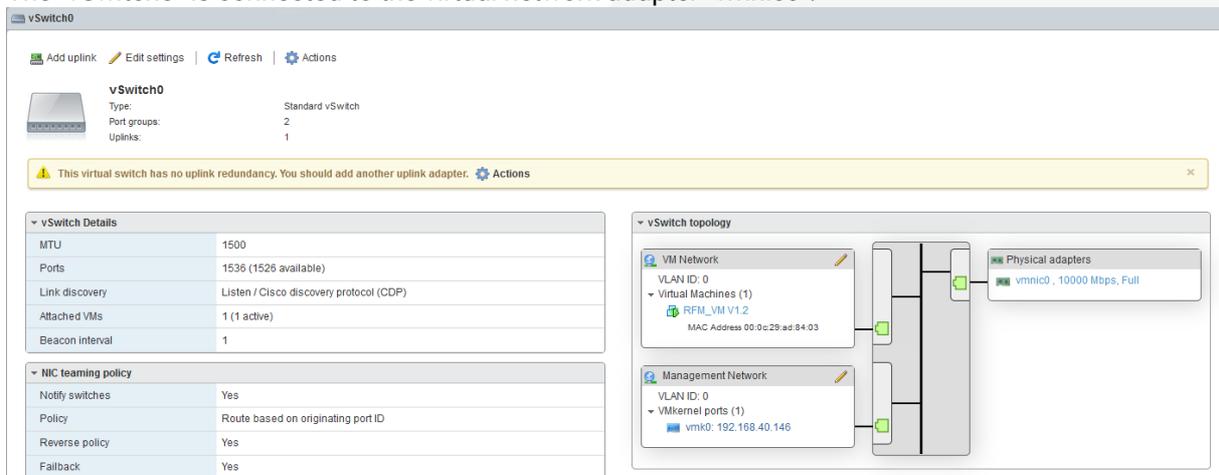
The administration of the ESXI server is reached with a navigator and the IP administration.



#### Configuration of virtual networks

When the ESXI server is installed, the "vSwitch0" switch is created, and it is automatically attached to the ESXI server administration ("Management Network" port) and to the RFM\_VM administration ("VM Network" port).

The "vSwitch0" is connected to the virtual network adapter "vmnic0".



A second virtual switch named "vSwitch1" must be created and connected to the Ethernet adapter "vmnic1".

**Add standard virtual switch - vSwitch1**

Add uplink

vSwitch Name	vSwitch1
MTU	1500
Uplink 1	vmnic1 - Up, 10000 mbps
▶ Link discovery	Click to expand
▶ Security	Click to expand

Add Cancel

Create the "WAN Network" port and associate it with "vSwitch1".

**Add port group - WAN Network**

Name	WAN Network
VLAN ID	0
Virtual switch	vSwitch1
▶ Security	Click to expand

Add Cancel

See the association on "vSwitch1" setting.

**vSwitch1**

Add uplink | Edit settings | Refresh | Actions

**vSwitch1**  
 Type: Standard vSwitch  
 Port groups: 1  
 Uplinks: 1

**⚠ This virtual switch has no uplink redundancy. You should add another uplink adapter. Actions**

vSwitch Details	
MTU	1500
Ports	1536 (1526 available)
Link discovery	Listen / Cisco discovery protocol (CDP)
Attached VMs	1 (1 active)
Beacon interval	1

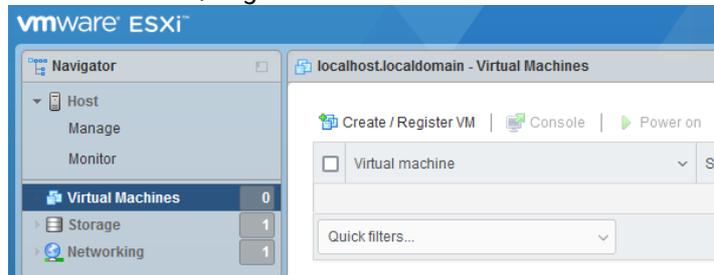
**vSwitch topology**

```

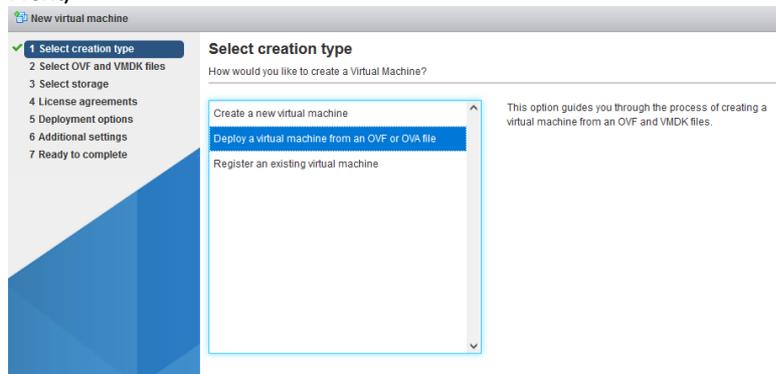
graph LR
    WAN[WAN network  
VLAN ID: 0  
Virtual Machines (1)  
RFM_VM V1.2  
MAC Address 00:0c:29:ad:84:0d] --- Physical[Physical adapters  
vmnic1, 10000 Mbps, Full]
  
```

## 4) RFM\_VM INSTALLATION

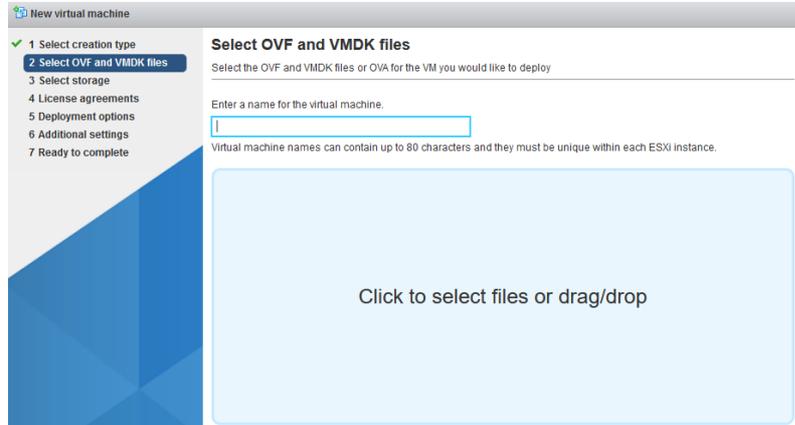
From the Create/Register VM



Next,

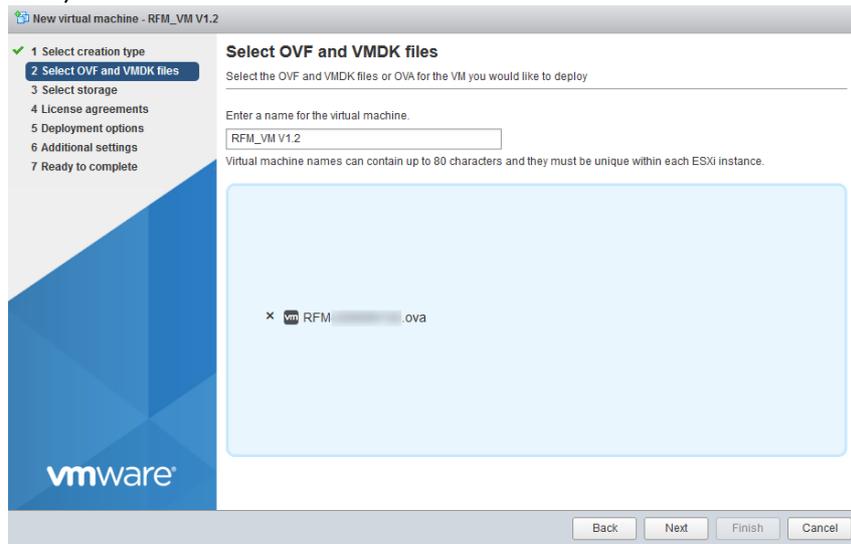


Next,

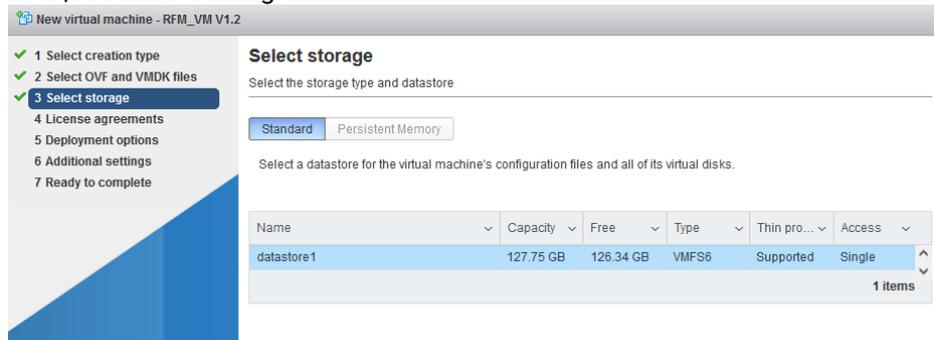


Nammed the virtual machine and select the file with .ova extention.

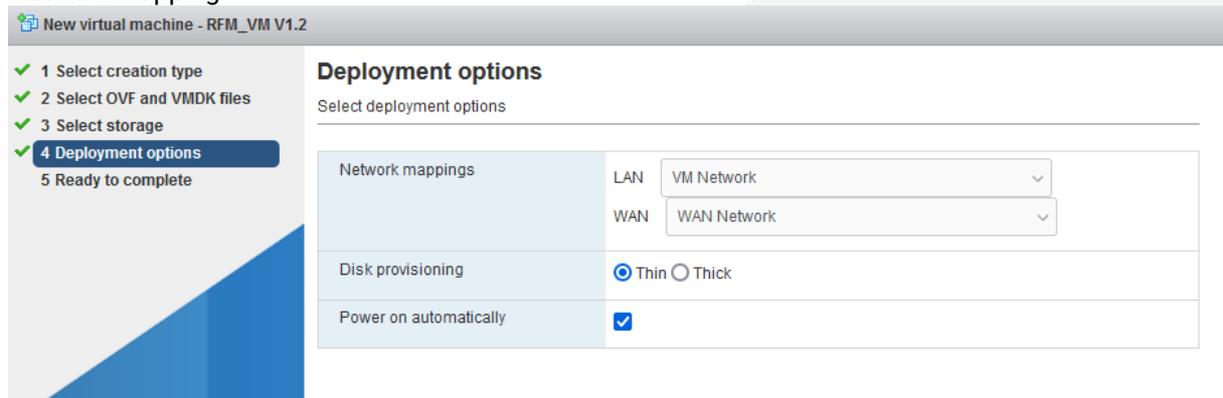
Next,



Next, select the storage



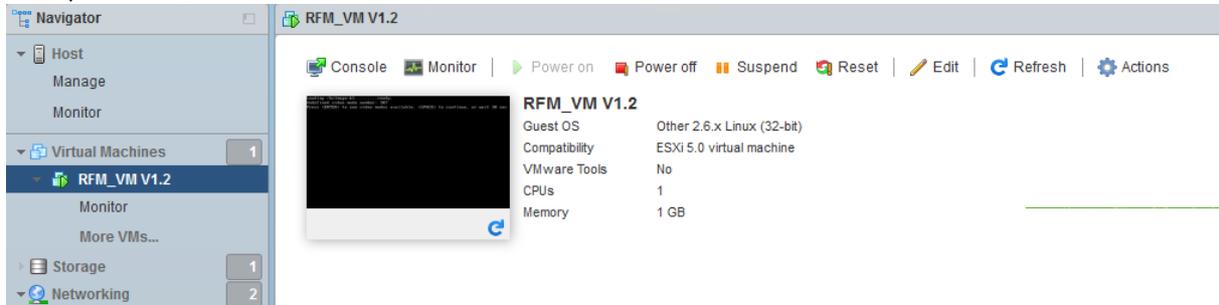
Network mapping



Next finalise the installation.

## 5) RFM\_VM STARTING

The RFM\_VM must start automatically.  
If not, the RFM\_VM can be started.



## 6) RFM\_VM CONFIGURATION

The administration of RFM VM is in factory IP address 192.168.0.128 by default, accessible from the virtual network interface.

To reach the administration of RFM\_VM it's needed to define the LAN network (192.168.0.x) in the virtual network interface of the workstation.

Reach the configuration web page with the URL <http://192.168.0.128:8080>

### LAN setting's

> Home > Setup > LAN Interface > Ethernet and IP

#### LAN network

IP address	<input type="text" value="192.168.0.128"/>
Netmask	<input type="text" value="255.255.255.0"/>
Default gateway	<input type="text"/>

#### Remote access

When a remote user connects to the product, an IP address is automatically assigned to his PC which becomes a part of the local network. Enter below the start and end address that can be assigned to a remote PC.

Automatic management of the remote users IP addresses

#### Advanced parameters

Show advanced parameters

### WAN settings

> Home > Setup > WAN interface

Save Cancel Page has unsaved changes

WAN type Ethernet

Ethernet WAN port configuration

Speed / duplex Autonegociation

IP configuration of Ethernet WAN

Connection type Ethernet

WAN interface: connection to an Ethernet network

Ethernet WAN priority High

Obtain an IP address automatically

Obtain DNS servers addresses automatically

Enable address translation (NAT)

Enable proxy ARP

Ping control

The Ping control checks if a path is valid or not. If the ping fails, the default route associated to this link is removed.

Enable ping control

IP address to ping

Ping interval 10 s

Ping retries 4

Save Cancel

It's depend of the physical network interface configuration, the WAN interface can obtain automatically an IP adress or the IP adress can be fixed.

### M2Me enabled

> Home > Setup > Remote access > M2Me\_Connect



Enabled

UDP ports 50000  1194  5000  From 50001 to 51000

TCP ports 50000  1194  5000  443  80  From 50001 to 51000

Direct access to the Internet (no proxy)

Show advanced parameters

Connection start parameters

Connect at power on

Disconnect now Disconnect

Restore Default parameters

Save Cancel

Reach the RasFleetManager application web page with the URL 192.168.0.128.



## App zone access

### Please identify yourself

This area provides remote users access to the web portal and to Collect&Alert if the option is available.

Only remote users registered in this device are allowed in this area

#### Username

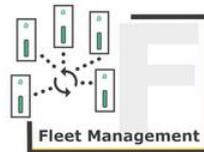
#### Password

Your credentials and your data are protected by SSLv3/TLSv1



## site

[ETIC - Log off](#)



## 7) HOT LINE SUPPORT DURING YOUR TEST

Feel free to contact +33 4 76 04 20 05 or [hotline@etictelecom.com](mailto:hotline@etictelecom.com)

## 8) VIRTUAL SHOWROOM (AVAILABLE FROM THE HOME PAGE)

By surfing on our WEB site [www.etictelecom.com](http://www.etictelecom.com) (Support/Virtual Showroom) you can learn how to configure a our products.

