

APPLICATION NOTE

Installation of RFM_VM on an ESXI server

- ESXI server installation
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- RFM_VM installation
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- 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.

$\leftarrow \ \ \rightarrow \ \ G$	O 🔒 https://192.168.40.146/ui/4	#/login
VM	ware®	
User name Password	root	vm ware [®] esxi [®]
	Log in	

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".

×
M Physical adapters
2002/02
Pad S4 03 46

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

Add standard virtual switch - vSwtich1				
🔜 Add uplink				
vSwitch Name	vSwtich1			
MTU	1500 🗘			
Uplink 1	vmnic1 - Up, 10000 mbps 🛛 🗸	8		
► Link discovery	Click to expand			
▶ Security	Click to expand			
		Add Cancel		

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

<u> A</u> dd port group - WAN Netw	rk	
Name	WAN Network	
VLAN ID	0	
Virtual switch	vSwtich1 ~	
▶ Security	Click to expand	
	bbA	Cancel

See the association on "vSwitch1" setting.

Add uplink 🥒 Edit settings 🛛	C Refresh 🎄 Actions		
vSwitch1 Type: Port groups: Uplinks:	Standard vSwitch 1 1		
This virtual switch has no upl	ink redundancy. You should add another uplink adapter.	Actions	×
witch Details		- vSwitch topology	
J	1500		
s	1536 (1526 available)	VI AN ID: 0	me Physical adapters
discovery	Listen / Cisco discovery protocol (CDP)	Virtual Machines (1)	
ched VMs	1 (1 active)	MAC Address 00:0c:29:ad:84:0d	
acon interval	1		

4) **RFM_VM INSTALLATION**

From the Create/Register VM

vm ware [∗] ESXi [∞]				
Navigator	🗈 🔓 localhost.localdomain - Virtual Machines			
▼ 🚡 Host Manage	😭 Create / Register VM 🛛 📑 Console 📄 🕨 Power on			
Monitor	Virtual machine V St			
 Storage Storage Networking 	Quick filters ~			
Next,				
Select creation type Select OVF and VMDK files Select exprane	Select creation type How would you like to create a Virtual Machine?			
Select storage 4 License agreements 5 Deployment options 6 Additional settings 7 Ready to complete	Create a new virtual machine This option guides you through the process of creating a wirtual machine from an OVF and VMDK files. Register an existing virtual machine			
Next,				
1 Select creation type	Select OVE and VMDK files			
2 Select OVF and VMDK files	Select the OVF and VMDK files or OVA for the VM you would like to deploy			
4 License agreements	Enter a name for the virtual machine.			
5 Deployment options				
7 Ready to complete	Virtual machine names can contain up to 80 characters and they must be unique within each ESXI instance.			
	Click to select files or drag/drop			

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

Next

1 Select creation type	Select OVF and VMDK files
2 Select OVF and VMDK files	Select the OVF and VMDK files or OVA for the VM you would like to deploy
3 Select storage	
4 License agreements	Enter a name for the virtual machine.
5 Deployment options	RFM_VM V1.2
Ready to complete	Virtual machine names can contain up to 80 characters and they must be unique within each ESXi instance.
	× 📾 RFMova

Next, select the storage

 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 License agreements 5 Deployment options 6 Additional settings 7 Ready to complete 	Select storage Select the storage type and datastore Standard Persistent Memory Select a datastore for the virtual mach	nine's (configuration file	es and all of	its virtual dis	ks.			
	Name	~	Capacity 🗸	Free	√ Туре	~	Thin pro 🗸	Access	~
	datastore1		127.75 GB	126.34 GB	VMFS6		Supported	Single	^
								1 it	ems

Network mapping

 Select creation type Select OVF and VMDK files Select storage 	Deployment options Select deployment options			
4 Deployment options 5 Ready to complete	Network mappings	LAN VM Network ~ WAN WAN Network ~		
	Disk provisioning	⊙ Thin ◯ Thick		
	Power on automatically			

Next finalyse the installation.

5) RFM_VM STARTING

The RFM_VM must start automatically.

If not, the RFM_VM can be started.

✓ ☐ Host Manage	😴 Console 🔜 Monitor 🕨 Power on 🗬 Power off 🔢 Suspend 🧐 Reset 🥒 Edit 🤁 Refresh 🐡 Actions
Monitor	RFM_VM V1.2 Guest OS Other 2.6.x Linux (32-bit)
🕶 🗗 Virtual Machines 🗾 1	Compatibility ESXi 5.0 virtual machine
RFM_VM V1.2	VII ware Tools No
Monitor	Memory 1 GB
More VMs	C
Storage	
▼ 🔮 Networking 📃 2	

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 a	and IP		?	
LAN network				
IP address	192.168.0.128			
Netmask	255.255.255.0			
Default gateway				
Remote access				
When a remote user connects to the product, an IP address is assigned to a remote PC. Automatic management of the remote users IP addresses	s automatically assigned to his PC wi	ch becomes a part of the local network. Enter below the	start and end address that can be	
Advanced parameters				
Show advanced parameters				
Save Cancel				
WAN settings				
-				

> Home > Setup > WAN interface	
Save Cancel Page has unsaved changes	
WAN type	Ethernet 🗸
Ethernet WAN port configuration	
Speed / duplex	Autonegociation V
IP configuration of Ethernet WAN	
Connection type	Ethernet V
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 f	ails, 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.

Enabled	
UDP ports	50000 C 1194 C 5000 C +rom 50001 to 51000
Direct access to the Internet (no proxy)	
Show advanced parameters	
onnection start parameters	
Connect at power on	
Disconnect now	Disconnect

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

•••••

Log in

Your credentials and your data are protected by SSLV3/TLSV1





7) HOT LINE SUPPORT DURING YOUR TEST

Feel free to contact +33 4 76 04 20 05 or hotline@etictelecom.com

8) VIRTUAL SHOWROOM (AVAILABLE FROM THE HOME PAGE)

By surfing on our WEB site <u>www.etictelecom.com</u> (Support/Virtual Showroom) you can learn how to configure a our products.

