FUJITSU Software ServerView Resource Orchestrator Cloud Edition V3.3.0 [VMware] Automatic Quarantining Function Setup Guide B1X1-0393-01ENZ0(05)



Specify the following values on each screen. Installation Folder C:\Program Files (x86)\Resource Orchestrator Network to use for the admin LAN 192,168,10,40 Authentication Method Select "Internal Authentication" manage Password for "ma *Displayed as ••• on the screen. Retype password Password for "manage *Displayed as ••• on the screen 3. When the installation is complete, the completion window is Follow the instruction displayed in the window to restart the system

Installation Refer to the "Automatic Quarantining Function User's Guide" for details.

the hard disk space for upora

Select

Exit

STEP 1 Install the Product



Installing the Agent (Windows)

1. Insert the DVD-ROM on the admin server and then select "Cloud Edition" - "Agent installation"



2. Follow the instructions on the wizard to perform the installation. Specify the following values on each screen.

Window	Entry	Value to Enter or Select
nstallation Folder Selection	Installation Folder	C:\Program Files (x86)\Resource Orchestrator
dmin Server Registration	Admin LAN IP Address of the Admin Server	192.168.10.40
icense Authentication	License Authentication Information for the Windows Volume License	Select [Next].

- 3. When the installation is complete, the completion window is
- Follow the instruction displayed in the window to restart the system

Continued on the Upper Right



STEP 4 Create Definition Files	STEP 6 Enable Notification Refer to the "Automatic Quarantining Function User's Guide" for details.
Create definition files. If the definition files already exist, add definitions using the following format	(1) Enable measure notifications. Execute the following
Definition Files when Using Virtual PCs or SBC Servers Deployed on VM Hosts	(1) Enable message notifications. Execute the following
■ Storage Location on the Admin Server (ROR Manager)	VDipassword of the admin server <petupn< td=""></petupn<>
C:¥Program Files(x86)¥Resource Orchestrator¥SVROR¥Manager¥etc¥vm	s msgnotice enable -RETURNS
Definition File Name Value to Set in the Definition File	
register_ipmiless None (Create an empty file)	(2) Authorize remote management. Execute the following command, and confirm that the content of TrustedHosts
Storage Location on the Admin Server (ROR Manager)	is a single asterisk (*) or the IP address for connection to the VDI management server (192.168.10.60).
C:¥Program Files(x86)¥Resource Orchestrator¥SVROR¥Manager¥etc¥customize_data	> winrm get winrm/config/client <return></return>
Definition File Name Value to Set in the Definition File	(3) Configure the VDI management server to allow access from Windows Remote Management
I_server.rcxprop reserve_ip_address=true	Log in to the VDI management server as a user with administrator privileges.
avmgr_network.rcxprop Intranet-LAN=Quarantined-LAN	and execute the following command from the command prompt.
server_control.rcxprop serverControl,v1.1 ###################################	When the prompt is displayed, enter "y".
# server_control.rcxprop	> winrm quickconfig <return></return>
# #All Rights Reserved, Copyright(C) FUJITSU LIMITED 2011	(4) Change the PowerShell execution policies.
*****	On both the machine to be set up as the admin server of Resource Orchestrator and
# physical_server, ipmi #	the VDI management server, change the PowerShell execution policy to "RemoteSigned".
esxi000,false	Start the PowerShell console using administrator privileges and execute the following command.
	> Set-ExecutionPolicy -ExecutionPolicy RemoteSigned <return></return>
Common Definition Files for Virtual PCs and SBC Servers	
(1) Create a work folder.	(5) Execute the following command, and confirm that notification has been enabled.
> mkdir D:¥avmgr <return></return>	> msgnotice info <return></return>
(2) On the ROR console, select [File]-[System Configuration File]-[Download Template].	STEP 7 Register Resources Refer to the "Automatic Quarantining Europic User's Guide" for details
I ne [File Download] window is displayed.	Import System Configuration File
(4) Specify the storage directory (D:¥Aymar) and the file name (rcx-import-aymar.csy).	(1) On the ROR console, select [File]-[System Configuration File]-[Import].
(5) Click the [Save] button.	The [Import System Configuration File] dialog is displayed. This will import a system configuration file. Select the file that will be imported.
(6) Edit the content of the system configuration file (D:¥Avmgr¥rcx-import-avmgr.csv) as shown below.	(2) Specify the system configuration file (rcx-import-avmgr.csv) prepared
Value to Set in the System Configuration File (rcx-import-avmgr.csv)	In "STEP 4 Create Definition Files". File: C:\rcx-import-avmgr.csv_refer
RCXCSV V3.5	
# ServerView Resource Orchestrator	OK Cancel Help
# System configuration file	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
[Convor]	
operation,chassis_name,slot_no,server_name,ip_address,mac_address,second_mac_address,snmp_community_name,ipmi_ip_address,ipmi	STEP & Register Resource Pools VM Pool
_user_name,ipmi_passwd,ipmi_passwd_enc	Bigdir belied rescent to DOIS Report Rescent to DOIS Report Rescent to DOIS
new,,,,esxi000,192.168.10.13, 90:E5:35:0C:34:AD, 90:E5:35:0C:34:AE,,,,,, new,xenapp000.192.168.10.14.90:E5:35:0C:34:AC,,public,192.168.10.201.admin.admin.plain	When Using Virtual PCs and SPC Servers Depleved on VM Hests
[VMManager] operation name in address product login name login passwd passwd enc	(1) From the orchestration tree, right-click the target VM pool,
new,vCenterServer,192.168.10.50,vmware-vc,administrator,vCenterServer_password,plain	then register the VM host (VMware ESXi).
[Sanvar]/MHast]	
Operation,server_name,vm_login_name,vm_login_passwd,vm_passwd_enc	(2) From the orchestration tree, right-click the target network pool and
new,esxi000,root, <i>esxi000_password</i> ,plain	select [Create Network Resource]-[New]. Register the business network and the guarantine network Notwork Posource
[ServerAgent]	
operation, server_name	Please enter the information of the network resource being created. Using "Automatic Network Configuration" enables faster first-time L-Server deployment.
new,xenapp000	Business Network
STEP 5 Create Rulesets	Network resource name The resource name of the business network Intranet-LAN Detailed configuration: Use configured virtual switches/port prolifie.
	Type The type of the network resource Public LAN VLAN ID/Uplink Port Selection VLAN ID/Uplink Port Selection
(for the SBC Server Deployed on the Physical Server)	VLAN ID The VLAN ID of the business network 20 VLAN ID
When using the SBC server deployed on the physical server, create and register rulesets for the configuration of VLAN settings for	Subnet address/mask Subnet address/mask 192.168.20.0/24 Default gateway Default gateway 192.168.20.1
the adjacent L2 switch.	
Create rulesets with the following names.	Quarantine Network
Storage Location on the Admin Server (KUK Manager) C: ¥Program Files(x86)¥Resource Orchestrator¥S\/ROR¥Manager¥etc¥scripts¥network resource¥	Window Entry Value to Enter or Select Subnet address/mask: 192.168.20.0 / 255.255.255.0
	Ineresource name Ine resource name of the quarantine Quarantine-LAN Default gateway: 192.168.20.11 × network Exclusion IP range: None Settings
Network Type Ruleset Name Refer to #2.5.8 Pulsests (Cerinte) for L2 Switch as #	Type The type of the network resource Public LAN Ruleset: None
Management network untag_vlan_admin-net in the "Automatic Quarantining Function User's Guide" for	VLAN ID The VLAN ID of the quarantine network 30 Comment Comment Comment
Business network tag_vlan_intra-net	Subnet address/mask Subnet address/mask 192.168.30.0/24
Quarantine network tag_vlan_quarantined-net	Delanit Ratewah Delanit Ratewah 137'108'30'1
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When Using the SBC Server Deployed on the Physical Server

(1) From the orchestration tree, right-click the target server pool, then register the target physical server (xenapp000).

Resour Pool Na Resour	cetype: VM Pool ama: /Tanant-A/Tanan toe Liat	tvMHostPool			
Detect	Mesource (Label)	Okeler Group	Datus	VM Type	
	182.168.10.12	Outer	normal	Weeks	
R	182.188.10.13	Cluster	normal	Ware	
	182.188.10.15	Outer	normal	Wears	
3	182 198 10 13 182 198 10 15	Cutter	Inormal	Ulteare	

Select all Unselect all Selected Re

(2) Create the network configuration information XML file for the registration of the adjacent L2 switch

	Network Configuration Information XML File for the Registration of the Adjacent Switch
xml v</th <th>version="1.0" encoding="utf-8"?></th>	version="1.0" encoding="utf-8"?>
<netco< td=""><td>onfig></td></netco<>	onfig>
<netde< td=""><td>vices></td></netde<>	vices>
<mode:< td=""><td>>add</td></mode:<>	>add
<netde< td=""><td>vice ip="192.168.10.80" name="Catalyst3750-1"></td></netde<>	vice ip="192.168.10.80" name="Catalyst3750-1">
<types< td=""><td>\$</td></types<>	\$
<type< td=""><td>e>L2-Switch</td></type<>	e>L2-Switch
<td>25></td>	25>
<appli< td=""><td>ianceType>physical</td></appli<>	ianceType>physical
<main< td=""><td>itenance>false</td></main<>	itenance>false
<auto< td=""><td>Configuration>true</td></auto<>	Configuration>true
<mgm< td=""><td>itInfos></td></mgm<>	itInfos>
<snm< td=""><td>ips></td></snm<>	ips>
<rea< td=""><td>adCommunity>snmp_community</td></rea<>	adCommunity>snmp_community
<td>mps></td>	mps>
<logi< td=""><td>inInfos></td></logi<>	inInfos>
<log< td=""><td>ginInfo protocol="remote_login" auth_type="local password" authority="user" check="false"></td></log<>	ginInfo protocol="remote_login" auth_type="local password" authority="user" check="false">
<u:< td=""><td>ser>user1</td></u:<>	ser>user1
<pa< td=""><td>assword>user_pass</td></pa<>	assword>user_pass
<pr< td=""><td>rivilegedPassword>admin_pass</td></pr<>	rivilegedPassword>admin_pass
<pa< td=""><td>asswordEncryption>false</td></pa<>	asswordEncryption>false
<td>bginInfo></td>	bginInfo>
<td>ginInfos></td>	ginInfos>
<mor< td=""><td>nitoring method="1"></td></mor<>	nitoring method="1">
<me< td=""><td>ethods></td></me<>	ethods>
<m< td=""><td>1ethod>SNMP</td></m<>	1ethod>SNMP
<td>lethods></td>	lethods>
<inter< td=""><td>erval>300</td></inter<>	erval>300
<ret< td=""><td>tryCount>3</td></ret<>	tryCount>3
<tin< td=""><td>neout>30</td></tin<>	neout>30
<td>onitoring></td>	onitoring>
<td>ntInfos></td>	ntInfos>
<td>evice></td>	evice>
<td>evices></td>	evices>
<links></links>	•
<link/>	>
<dev< td=""><td>ices></td></dev<>	ices>
<de< td=""><td>Vice $p = 192.158.10.80$ kind= netdevice name= Catalyst3/50-1 ></td></de<>	Vice $ p = 192.158.10.80$ kind= netdevice name= Catalyst3/50-1 >
< 20	
<td>evice></td>	evice>
<de< td=""><td>vice ip= 152.100.10.14 kinu= server name= xenappuuu ></td></de<>	vice ip= 152.100.10.14 kinu= server name= xenappuuu >
< 20	icindovs1
<ni< td=""><td></td></ni<>	
<td></td>	
<td></td>	
LINK</td <td></td>	
	ines
	vice in="192.168.10.80" kind="netdevice" name="Catalyst3750-1">
	ortsGi1/0/22/Ports
	vice in="192.168.10.14" kind="server" name="venann000">
	nrts2
<pc< td=""><td>icindex>2</td></pc<>	icindex>2
<td></td>	
V/LITIKS	onfies
<td></td>	

(3) Register the adjacent L2 switch. Execute the following command.

> rcxadm netconfig import -file D:¥avmgr¥netedvice

(4) Confirm that the adjacent L2 switch has been registered successfully.

> rcxadm netdevice list <RETURN>

(5) From the orchestration tree, right-click "AdminLan", then click [Delete] "AdminLan" will be deleted.

(6) From the orchestration tree, right-click the target network pool and select [Create Network Resource]-[New]. Register the business network and the quarantine network.

Business Network

Window	Entry	Value to Enter or Select
Network resource name	The resource name of the business network	Phy-Intranet-LAN
Туре	The type of the network resource	Public LAN
Detail configuration		Use configured virtual switches/port profi
VLAN ID	The VLAN ID of the business network	21
Subnet address/mask	Subnet address/mask	192.168.20.0/24
Default gateway	Default gateway	192.168.20.1
Ruleset	Ruleset	tag_vlan_intra-net

Quarantine Network

Window	Entry	Value to Enter or Select
Network resource name	The resource name of the quarantine network	Phy-Intranet-Quarantined-LAN
Туре	The type of the network resource	Public LAN
Detail configuration		Use configured virtual switches/port pro
VLAN ID	The VLAN ID of the quarantine network	31
Subnet address/mask	Subnet address/mask	192.168.30.0/24
Default gateway	Default gateway	192.168.30.1
Ruleset	Ruleset	tag_vlan_quarantined-net

(7) From the orchestration tree, right-click the target network pool and select [Create Network Resource]-[Using existing admin LAN subnet]. Register the management network.

Management Network

Window	Entry	Value to Enter or Select
Network resource name	The resource name of the management network	Phy-Admin-LAN
Туре	The type of the network resource	Admin LAN
Detail configuration		Use configured virtual switches/port pro-
VLAN ID	The VLAN ID of the management network	11
Subnet address/mask	Subnet address/mask	192.168.10.0/24
Default gateway	Default gateway	192.168.10.1
Ruleset	Ruleset	untag_vlan_admin-net

STEP 9 Register Antivirus Software

(1) Register antivirus software. Execute the following command.

> rcxadm avmgr create -name corpxg -mgmt_soft_na

(2) Confirm that the antivirus software is successfully registered. Execute

> rcxadm avmgr list <RETURN>

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o.xml <ret< th=""><th>URN></th></ret<>	URN>
cute the followin	g command.
e displayed mer	nu.
Network Re	source
Create a Network Resource Please enter the information Using "Automatic Network C	e
Network resource name: Type:	Phy-Intranet-LAN Public LAN Admin LAN ISCSI boot
Detailed configuration:	Use configured virtual switches/port profile. Automatically configure VLANs for the uplink ports. ection
VLAN ID: Please configure the uplin	21 ik ports of blade switches or ethernet fabric switches.
Switch	Port No/Port NameLAG Select
<	>
Subnet address/mask: Default gateway:	192.168.20.0 / 255.255. 192.168.20.1 ×
Exclusion IP range:	None Settings
Label:	tag_vian-intra-net
Comment:	0
corp -ip 19	92.168.10.30 <return></return>
ollowing comma	and.
	Continued on the Next Page

STEP 10 Import the Virtual PC and SBC Server Deployed on the VM Host

(1) Create the CSV configuration file. Execute the following command.

> convertVMtoLServer -exportfile D:¥avmgr <RETURN>

(2) Import the virtual PC and SBC server deployed on the VM host so they can be managed by ROR. Execute the following command

|> convertVMtoLServer -file D:¥avmgr¥convertVMtoLserver 20170831000000.csv <RETURN>

STEP 11 Import the SBC Server Deployed on the Physical Server

Link the Physical Server with a Physical L-Server, and Load the IP Address of the Management Network

(1) Perform linking of the physical server. Execute the following command.

> rcxadm Iserver convert -with xenapp000 <RETURN>

Load the IP Address of the Business Network Assigned to the Physical Server

(2) Execute the following command. The base XML file for changing the network will be output.

> rcxadm lserver show -name xenapp000 -format xml > D:¥avmgr¥intranet_xenapp000.xml <RETURN>

(3) Edit the file output in step (2) as shown below.

xml version="1.0" encoding="utf-8"?	
<resources></resources>	
<lserver label="for Intranet-LAN" name="xenapp000"></lserver>	
<nics></nics>	
<nic></nic>	
<nicindex>0</nicindex>	
<macaddress auto="false"></macaddress>	
<networklinks></networklinks>	
<networklink index="0" name="Phy-Admin-LAN" vlan_mode="untagged"></networklink>	
<ipaddress address="192.168.10.14" auto="false"></ipaddress>	
<nic></nic>	
<nicindex>1</nicindex>	
<macaddress auto="false"></macaddress>	
<networklinks></networklinks>	
<networklink index="0" name="Phy-Intranet-LAN" vlan_mode="tagged"></networklink>	
<ipaddress address="192.168.20.23" auto="false"></ipaddress>	

Execute the following command. > rcxadm lserver modify -name xenapp000 -type physical -file D:¥avmgr¥businesslan xenapp000.xml

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Create and Store the XML File for Transfer to the Quarantine Network

(5) Execute the following command. The base XML file for changing the network will be output.

> rcxadm lserver show -name xenapp000 -format xml > D:¥avmgr¥quarantine xenapp000.xml <RETURN> > rcxadm lserver show -name xenapp000 -format xml > D:¥avmgr¥unquarantine_xenapp000.xml <RETURN>

(6) Edit the XML file output in step (5) as shown below.

For the Management and Business Networks (unquarantine_xenapp000.xml)	
<pre>?xml version="1.0" encoding="utf-8"?> Resources> LServer name="xenapp000" label="for Unquarantined-LAN"> </pre>	xml versio<br <resources> <lserver nar<br=""><nics> <nic -<br=""><nic -<br="">NIC - <nic -<br="">NIC - NIC - <nic -<br="">NIC - <nic -<br="">NIC - NIC - NIC</nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nic></nics></lserver></resources>

Tryout

- Download a dummy virus to a virtual PC and an SBC server , and transferred to the guarantine network.
- (1) Download a dummy virus to a virtual PC and SBC server.
- (2) Confirm that security risks have been detected through email notification of the admin server.
- (3) Confirm the following:
- From the ROR console, confirm that the networks of the target virtual the quarantine network.
- Confirm the IP addresses of the target virtual PC and SBC server.



How to Reference the Electronic Manuals

- Perform the following procedure to refer to the electronic manuals for Resource Orchestrator:
- 1. Insert the first DVD-ROM of Resource Orchestrator into the DVD drive.
- 2. On the initial window that is displayed automatically, click [Documentation] from the left menu and then [Manual].
- 3. The online manuals are listed in the Web browser. Refer to those in the Cloud Edition section. For the most recent manuals, visit the Fujitsu Web site.
- http://software.fujitsu.com/jp/manual/manualindex/p17000045e.html (As of March 2018)

For the Quarantine Network (quarantine_xenapp000.xml)
on="1.0" encoding="utf-8"?>
me="xenapp000" label="for Quarantined-LAN">
ex>O dress auto="false"> rkLinks> orkLink name="Phy-Internet-Quarantined-LAN" index="0" vlan_mode="tagged"> dress auto="false" address="192.168.30.34"/> vorkLink> orkLink>
ex>1 dress auto="false"> rkLinks> orkLink name="Phy-Internet-Quarantined-LAN" index="0"> dress auto="false" address="192.168.30.33"/> orkLinks>
\$
confirm that the corresponding L-Servers are ons sent by the antivirus software or by checking the system log PC and SBC server have been switched to
source Orchestrator
Image: