

# iQuila Configuration Guide for

## **Enterprise Management Interface**

iQ22078r3

This Document Applies to: iQuila Enterprise v4.35

www.iQuila.com

### iQuila Management Interface Configuration

This document will guide you through the setup and configuration of iQuila Network Management, this will allow you to link all iQuila hardware devices and virtual devices into a management switch for easy management and access without the requirement for opening ports on remote locations.

### Configuring the management interface on the iQuila Server.

#### Step 1

From the Server Manager create a new virtual switch called management.

(If your iQuila Enterprise server is part of Cluster please Select Static Virtual Switch under Set Clustering on New Virtual Switch setup).

**Select the Management Virtual Switch** you just created and **select Manage Virtual Switch.** 

-10		Virtual Switch Name	Status	Туре	Users	Groups	Sessions	MAC Table
-	Manage Virtual Switch	all press	Online	Charles and a local sector				
100	Qnline	25 IBIT	Online	Standatorie	4	1	1	1
ø.	Offline	TEST2 TEST3	Online	Standalone	3	0	0	131
Ē	View Status							
,	<u>Create a Virtual Switch</u>							
2	Propgrties							
3	Delete							
idging an	d Routing Local Bridge Setting							
	Layer 2 Switch Setting							
ň	IPsec / L2TP Setting							
<b>P</b> -	OpenVPN / MS-SSTP							
etwork Ar	d Encyption							
Ra	Encryption and Network							
		VEN Server Inf	ormation				Manaj	gement of Liste
EN Cluste	ring	5 <sup>2</sup>		⊻iew Server Sta	tus			
								(cate

#### Step 2

Select **"Manage Group"** the manage groups window will be displayed.

Select "New" then in group name Enter Management,

Tick the box "Set this group's Security Policy".

Click the button **Security Policy**, this will display the Security Policy window.

-					
C Management of Virtual Switch - 'Management' Virtual Switch 'Management' Management of Security Databases	🍓 Manage Groups			[	Creation of New Group
Manage Users	Virtual Switch "	Management" has the follo	owing groups.		Group Name: Management
Manage your users, Create, Edit and Delete.	Group Name	Full Name	Description	Num L	Full Name:
Manage Groups Add, delete or edit groups.					Security Policy:
Manage Packet Filtering					Statistical Information of the Group:
Add or delete Packet filtering rules and apply Data prioritisation.					
Virtual Switch Settings:	New	Edit Damous	Defrech	Mambar List	
Switch Properties Configure this Virtual Layer2 Switch.	Manage Users	trusted CA certificates for	you Virtual Switch and	o cero	OK Cancel Refresh
Authentication Server Setting Use external RADIUS authentication server for user authentication.	VEN Sessions Mana	gement: nage Cascade Connection 1 Cascade Layer2 Bridge C hes on local or remote VE	ns onnection N Servers.		VENLog Files Log See Setting Log File List Configue settings of log sining Sunction.
					Exit

Please set the following Security Options:

- Deny Bridge Operation: Enable
- Deny Routing Operation: Enable
- Maximum Number of Multiple Logins = 1

**Select OK** to close the Security Policy window and **select OK** on the Group Window to save the policy.

-9-			Selected Policy:			
Policy Name	Current Value	^				
Allow Access	Enabled		Maximum Number of Multiple Logins			
Filter DHCP Packets (IPv4)						
Disallow DHCP Server Operation (IPv4)						
Enforce DHCP Allocated IP Addresses (IPv4)			Description of the policy:			
Deny Bridge Operation	Enabled	Users with this policy setting are up				
Deny Routing Operation (IPv4)	Enabled		to have more than this number of			
Deny MAC Addresses Duplication			consurrent logies. Bridge Mede services			
Deny IP Address Duplication (IPv4)     -			are not subjects to this policy. This			
Deny Non-ARP / Non-DHCP / Non-ICMPv6 _			are not subjects to this policy. This			
Privacy Filter Mode						
Deny Operation as TCP/IP Server (IPv4)						
Unlimited Number of Broadcasts -			Current Value:			
Allow Monitoring Mode	Allow Monitoring Mode -		Define the Policy			
Maximum Number of TCP Connections 32			Electric de Fondy			
Time-out Period	20 seconds		1			
Maximum Number of MAC Addresses			Considered interest that is within the same 1 to			
Maximum Number of IP Addresses (IPv4) -			Specify an integer that is within the range 1 to 65535.			
Upload Bandwidth	Jpload Bandwidth -					
Download Bandwidth						
Deny Changing Password						
Maximum Number of Multiple Logins	1					
Deny VolP / OoS Function		~				

#### Step 3

From the Virtual Switch Management

**Selecting Manage Users**. Will display the manage user window.

**Select New**, this will show the create new user window.

Enter the name of the device in the username for this example, we have selected New\_York\_Bridge for our New York office.

Under the Groups Section, Select Browse Groups and select the Management group.

Under Auth Type Select Password authentication,

In the Password section, enter a Strong password and click OK to save the user.

#### Configuring your Hardware to Login to the Management Interface

#### Step 4

Either from the console windows or via SSH login to the bridge device with the default credentials

User = console Password =! console



**Select option 1** 

Then option 2 Management of VEN Client



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Nonage prorosen, Ceski, Edit and Telde.	8	UserName	Ral Name	Croup Name	Description		National Service Office Account		
Manage Groups Act, divide or edit proces	🔺 ve					ſ	Adh Tatte Annungsa Authentitution M Research Authentitution M Modular Control authentitution	2	Did Note Management Browst Groups, (Optional)
Manage Packet Fittering						L	副 (Aprel Celificate Automization 私力の) Automization 中分の Donale Automization	heinikkai Cert	Rule Autherblacking Sections The series using Indiational Certificate Autherblacking with be- elisional or familed connection depending on vehicities (42.2), deployed tasks or publicly modules the sectional theolem 100 200,
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Tax othered MOUS authentication server for case authentication.	to se	New	5.04	Vert	Aur 14o	Class Class	rolen dy Uber Name an Authentication Server en Authentication Server		Unit Music of the Certificite Serial Number

You will be asked to enter the hostname of the client you are connecting to. **Enter localhost and press enter.** 



You can now enter commands to configure the VEN Client,

#### Step 5

1. Configuring Client from CLI

First, we need to create a virtual network adaptor.

Enter the command, NicCreate

#### **Press Enter.**

You will be asked to enter a Virtual Adaptor Name **please enter the name.** Management

#### Next, enter the command. AccountCreate

You will be asked to enter a name for the VEN connection string enter Management

You will be asked to enter the hostname, **enter the IP Address or DNS name** of the iQuila Server where the Management network is hosted on and **the port number** you are connecting on e.g., iquila.yourdomin.com:443

Next, you will be prompted to enter the Destination Hub Name, enter the **name** Management and **press enter.** 

Next, **enter the connection username**, this is the name we created earlier New\_York\_Bridge

You will be asked to enter the Network Adaptor Name

#### Management

Now, we need to create the Authentication type, **enter the command** AccountPasswordSet

You will be asked to enter the name of the Connection String, **enter the account we created.** 

Management **Press enter**, next you will be asked to enter the password for the account, **enter the password and confirm the password**.

You will then be asked to specify the type of connection, **enter Standard**, **and press enter** 

Now, Set the account to auto-start on the rebooting of device AccountStartupSet

To connect the account, enter AccountConnect

You will be prompted, to enter the account name Management

To check that this account is connected enter AccountStatusGet

#### **Enter the Account Name**

#### Management

This will show you the connection status of the connection to the management server.



#### Accessing a client over the management network

#### Step 6

From the console of the bridge device, **select option 2 Appliance Options**,

Then, select option 2 Remote Management Address

This will display the address you need to connect to make a note of the address for use later.

(if this option is not on your hardware please let me know and we can then login remotely and update it, or if you're able to obtain the IPv6 address from the sessions option on the iQuila Management Virtual Switch)



#### Step 7

#### Create a management user for management of all device as in Step 3

#### Step 8

**Install** the iQuila Client Enterprise Software Provided in the Secure Download link <a href="https://www.iquila.com/secure-documents/">https://www.iquila.com/secure-documents/</a>

If you install this on a system that you would like to access the management of the servers.

(or bridge the Management virtual switch with a Network interface you would like to expose the management of the server on, you may need to add an extra network interface to the iQuila Server.)

#### Step 9

#### Configure the Client Software,

First, we need to install a Virtual Network Adaptor, **select Virtual Adaptors**.

Then, **new Virtual Network adaptor**, a small window will show, asking to enter a name **leave the default name VPN, and click ok.** 

iQuila VEN Client Manager						$\sim$
Concerned Fully Manual Advances of						^
Connect Edit View Virtual Adapter	amart Card <u>T</u> ools	Help				
VEN Connection Name Sta	atus VEN Ser	ver Hostname		Virtual Switch	Virtual Network A	
Add VEN Connection						
Virtual Network Adapter Name	Statu	5	MAC Address		Version	
iQuila VEN Client Manager		💎 Not Conne	ected	🛞 iQuila VE	EN Client Build 86	

A new Virtual Network Adaptor will now install.



#### Step 10

#### Next Click on Add a VEN connection.

The New connection window will show.

In Setting name, enter Management.

In **Host Name** enter the hostname or IP address of the iQuila Server

Under Port enter the Port number e.g., 443.

In the User Open to Authentication settings **enter your username and password you created in section 3** for the management account.

Please configu	ire the VEN Connection Setting for VEN Server.	Virtual Network Ada	ipter to Use:		
		WPN Client Ada	apter - VPN		
Setting Name:	Management				
tination VEN Ser	ver				
Specify the and the Vi	e host name or IP address, and the port number rtual Switch on the destination VEN Server.				
Host Name:	IP of iQuila Server				
Port Number:	443 V Disable NAT-T	User Authentication S	Setting:		
_	Management	Set the user a	authentication information that is required when		
prtual Switch Name:	management	P Connecting to	o the very period.		
xy Server as Rela	×	Auth Type:	Standard Password Authentication $\qquad \lor$		
You can co	nnect to a VEN Server via a proxy server.	User Name:	user Name		
	Import IE Proxy Server Settings	Password:	••••••		
Proxy Type:	Direct TCP/IP Connection (No Proxy)	You can change the user's password on the VEN Server.			
	Connect via HTTP Proxy Server		Change Password		
	Connect via SOCKS Proxy Server		enange Eastnere		
	Proxy Server Setting	Advanced Setting of	Communication:		
		Reconnec	cts Automatically After Disconnected		
ver Certificate Ve	rification Option:	Reconne	times		
Always	Verify Server Certificate	Reconnec	t Interval: 15 seconds		
<b>^</b>	Manage Trusted CA Certificate List	⊡ <u>I</u> nfini	ite Reconnects (Keep VEN Always Online)		
Specify	Individual Cert Show Individual Cert		Advanced Settings		

Click ok to save.

**Right-click** on the selected entry and **click connect**, the account should connect to the management network.

#### Step 11

#### Adding the Bridge Appliance to the iQuila Management Software

**Open**, the iQuila Server Manager software and **select the option New Connection** 

Under connection name, **enter the name of the device** you are connecting to e.g., New York Bridge

Under Hostname enter the IPv6 address you saved in **section 6** 

Under Port Number enter the port **5555** 

Please configure the connection setting for the VEN Server or the	2 VEN Bridge to manage.		
Connection Name: Ney York Bridge			
Destination VEN Server:	Select Administration Mode and Enter Password		
Specify the host name or IP address, and the port number and the Virtual Switch on the destination VEN Server.	You can connect to VEN Server using either Server Admi Mode or Virtual Switch Admin Mode.		
Host Name: IP^ Address	Server Admin Mode allows you manage entire VEN Server and all Virtual Switches.		
Connect to Localhost	Virtual Switch Admin Mode allows you manage only on Virtual Switch for which you hold privileges.		
Pro <u>xy</u> Server as Relay:	Server Admin Mode     O Virtual Switch Admin Mode		
You can connect to a VEN Server via a proxy server.	⊻irtual Switch Name:		
Proxy Type:  Direct TCP/IP Connection (No Proxy) Connect via HTTP Proxy Server Connect via SQCIS Proxy Server Proxy Server Setting	Please enter the password to connect administration mode. 		

In the password section **enter the password** you used to previously configure the device, if this device has not been previously configured, please leave it blank.

#### Click ok to save.

You can now manage the remote device no matter where it is located if it has an internet connection, as default the bridge devices are configured with a DHCP address for the LAN, Utilising, the management setup you are fine to leave them on DHCP.

Once the update has been applied, please refresh the portal window, and reboot the unit.

1. Login via SSH on Port 43343

Select Option 1: VEN Option



Select Option 2 for Management of Client VEN Under Hostname or IP Address of Destination enter localhost and press enter

You are now connected, to the iQuila VEN Command lien interface for iQuila Client.

We now need to create the Management Interface enter the command.

niccreate management and press enter.

Now we will create the Management Account enter the command AccountCreate Management and **press enter.** 

You will be asked to enter the hostname, **enter the IP Address or DNS name** of the iQuila Server where the Management network is hosted on and **the port number** you are connecting on e.g., iquila.yourdomin.com:443

Next, you will be prompted to enter the Destination Hub Name, enter the **name** Management and **press enter.** 

Next, **enter the connection username**, this is the name we created earlier New\_York\_Bridge and **press enter.** 

You will be asked to enter the Network Adaptor Name

Management and press enter.

Now, we need to create the Authentication type, **enter the command** AccountPasswordSet Management **press enter.** 

next you will be asked to enter the password for the account, **enter the password and confirm the password**.

You will then be asked to specify the type of connection, **enter Standard**, **and press enter**.

Now, Set the account to auto-start on the rebooting of device.

#### AccountStartupSet Management

To connect the account, enter AccountConnect Management

To check that the account as connected enter AccountStatusGet Management

This will show you the connection status of the connection to the management server.

