

FS PicOS Initial Configuration User Guide

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FS PicOS Initial Configuration



Specifications

· Product Name: Switch

• Model: PicOS

Power Supply: Power cordInterface: Console port

· CLI Support: Yes

Product Usage Instructions

Chapter 1: Initial Setup

Powering on the Switch

 Connect the switch to a power supply using the provided power cord. Press the power button to turn on the switch.

Logging in Switch through the Console Port

- For initial system configuration, follow these steps:
- 1. Connect the console port of the switch to the serial port of a PC using a console cable.
- 2. Open a terminal emulator (e.g., PuTTY) and configure it with the appropriate COM port settings matching the switchparameters.

Basic Configuration

Entering CLI Configuration Mode

• PicOS has different CLI modes with unique prompts. When you log in, you are in the operation mode by default.

Use commands like clear and show in this mode. The prompt is indicated by >.

Initial Setup

• Before performing the following operations, you should make sure that the device has been installed successfully. For detailed information of installing PicOS, see Installing or Upgrading PICOS.

Powering on the Switch

• Connect the switch to a power supply through the power cord, and then press the power button to power on the switch.

Logging in Switch through the Console Port

For initial system configuration, you should connect the switch to a terminal through the Console port.

Procedure

• Step1: Connect the console port of the switch to the serial port of a PC through a console cable, as shown in the figure below.

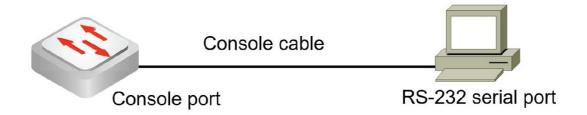


Figure 1-1 Connetion of Console cable

• **Step2**: Open a terminal emulator (e.g., PuTTY) and configure it with the appropriate COM port settings, which should be the same with the switch related parameters. As shown in the figure below.

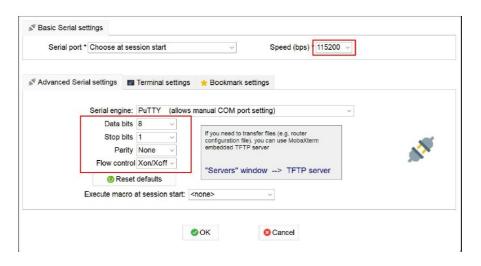


Figure 1-2 Serial Settings of Terminal Emulator

• Step3: Enter the default administrator name admin and password pica8 at the PICOS login and password prompts, and press Enter. Change the default password according to the prompts, press Enter, and you can successfully log in CLI. As shown in the figure below.

```
PICOS login: admin
Password:
You are required to change your password immediately (administrator enforced)
Changing password for admin.
Current password:
New password:
Retype new password:
Linux PICOS 5.10.23 #1 SMP Sun Apr 7 08:50:57 CST 2024 x86_64
Synchronizing configuration...OK.
Welcome to PICOS
admin@PICOS>
```

Figure 1-3 Password Modification for First login

Basic Configuration

Entering CLI Configuration Mode

PicOS supports different CLI modes, which are indicated by different prompts. Some commands can only be
run in certain modes.

Operation mode

• When log in PicOS CLI, you are in the operation mode by default. You can execute some basic configurations in this mode, such as clear and show, etc. > indicates the operation mode, as shown in the figure below.



Figure 2-1 Prompt of Operation Mode

Configuration mode

You can configure the switch function in this mode, such as interface, routing, etc. Run configure in the
operation mode to enter the configuration mode, and run exit to return to the operation mode. # indicates the
configuration mode, as shown in the figure below.

```
admin@PICOS> start shell sh
admin@PICOS:~$
admin@PICOS:~$ exit
exit
admin@PICOS>
```

Figure 2-3 Prompt of Linux Shell Mode

Linux shell mode

• Run start shell sh in the operation mode to enter the Linux shell mode, and run exit to return to the operation

mode. ~\$ indicates the Linux shell mode, as shown in the figure below.

```
admin@PICOS> start shell sh
admin@PICOS:~$
admin@PICOS:~$ exit
exit
admin@PICOS>
```

Figure 2-3 Prompt of Linux Shell Mode

Configuring a Host Name

Overview

A host name distinguishes one device from another. The default host name is the system name PICOS. You
can modify the host name as required.

Procedure

- **Step1:** In the configuration mode, specify or modify a host name for the switch.
 - set system hostname<hostname>
- Step2: Commit the configuration.
 - commit

Verifying the Configuration

 After the configuration is completed, in the configuration mode, use the run show system name command to view the new host name.

Other Configurations

• To reset the hostname to default, use the delete system hostname command.

Configuring the Management IP Address

Overview

To facilitate the device management and meet the requirement of separating the management traffic from the
data traffic, the switch supports the management interface. By default, the management interface is eth0 and
the IP address is null.

Procedure

- Step1: In the configuration mode, specify the IP address for management interface eth0.
 - set systemmanagement-ethernet eth0 ip-address {IPv4 | IPv6} <ip-address>
- Step2: Commit the configuration.
 - commit

verify the configuration

• After the configuration is completed, in the configuration mode, use the run show system management-ethernet command to view the MAC address, IP address, state and traffic statistics.

Other Configurations

 To clear the configuration of the management interface, use the delete systemmanagement-ethernet eth0 ipaddress command.

Network Configuration

Configuring an Interface

- Physical interface: exists on interface cards, which can be used for management and service.
 - Management interface: the switch supports a management interface eth0 by default, which is used to log
 in devices for configuration and management. For detailed information for the management interface, see
 Configuring the Management IP Address.
 - Service interface: can be used for service transmission, which includes Layer 2 Ethernet interfaces and Layer 3 Ethernet interfaces. By default, service interfaces of switch are all Layer 2 interfaces. To configure a Layer 2 interface as a Layer 3 interface, see the following chapter.
- Logical interface: not exists physically and is configured manually, which is used for service transmission. It includes Layer 3 interfaces, routed interfaces, loopback interfaces, etc.
- It includes the following chapters:

Configuring a loopback interface

Overview

The loopback interface is always up to ensure network reliability, which has the following features:

- It is always up and has the loopback feature.
- It can be configured with the mask of all 1s.

Based on the features, the loopback interface has the following applications:

• The IP address of a loopback interface is specified as the source address of packets to improve network reliability.

 When no Router ID is configured for dynamic routing protocols, the maximum IP address of the loopback interface is configured as the router ID automatically.

Procedure

- 1. Step1: In the configuration mode, specify the name and IP address for the loopback interface.
 - set I3-interface loopback <loopback-name> address <ipv4-address> prefix-length 32
 - set l3-interface loopback <loopback-name> address <ipv6-address> prefix-length 128
- 2. **Step2:** Commit the configuration.
 - · commit

3. Verifying the Configuration

After the configuration is completed, in the configuration mode, use run show I3-interface loopback <loopback-name> command to view the state, IP address, description and traffic statistics.

4. Other Configurations

- 5. By default, the loopback interface is enabled when created. To disable the loopback interface, use set l3-interface loopback <interface-name> disable command.
- 6. To clear the configuration of loopback interface, use delete I3-interface loopback interface <interface-name> command.

Configuring a Routed interface

1. Overview

 All Ethernet ports of switch are Layer 2 interfaces by default. When you need to use an Ethernet port for Layer 3 communication, you can enable the Ethernet port as a routed interface. The routed interface is a Layer 3 interface which can be assigned an IP address and can be configured with a routing protocol to connect to other Layer 3 routing devices.

2. Procedure

- Step1: In the configuration mode, set reserved VLANs for the use of the routed interface.
 - set vlans reserved-vlan <reserved-vlan>
 - reserved-vlan <reserved-vlan>: specifies the reserved VLANs. The valid VLAN numbers' range is 2-4094. The user can specify a range of VLAN numbers, e.g. 2,3,50-100. The system supports up to 128 reserved VLANs.
- Step2: Select a physical interface as the routed interface and specify a name.
 - set interface gigabit-ethernet <interface-name> routed-interface name <string> routed-interface
 name <string>: specifies a routed interface name.
 - Note: The name must start with "rif-", for example, rif-ge1.
- Step3: Enable the routed interface.
 - set interface gigabit-ethernet <interface-name> routed-interface enable true
- Step4: Configure an IP address for the routed interface.
 - set I3-interface routed-interface <string> address <ipv4-address | ipv6-address> prefix-length
 cprefix-number>
 - prefix-length prefix-number>: specifies the network prefix length. The range is 4-32 for IPv4
 addresses and 1-128 for IPv6 addresses.
- Step 5: Commit the configuration.

· commit

3. Verifying the Configuration

 After the configuration is completed, in the configuration mode, use the run show I3-interface routedinterface interface-name> command to view the state, IP address, MAC address, VLAN, MTU, description and traffic statistics.

4. Other Configurations

• To disable the routed interface, use the set interface gigabit-ethernet <interface-name> command.

Configuring a VLAN Interface

1. Overview

By default, the native VLAN of all physical interfaces is VLAN 1, which can implement Layer 2
communication. To implement Layer 3 communication between users in different VLANs and network
segments, you can configure the VLAN interface, which is a Layer 3 logical interface.

2. Procedure

- Step1: In the configuration mode, create a VLAN.
 - Note: The VLAN ID has been pre-configured in system from version 4.3.2 and you don't need to configure it.
 - set vlans vlan-id <vlan-id>
 - vlan-id <vlan-id>: specifies the VLAN tag identifier. The valid VLAN numbers range 1-4094. User can specify a range of VLAN numbers, e.g. 2,3,5-100.
- Step2: Specify the created VLAN as the native VLAN for a physical interface.
 - set interface gigabit-ethernet <interface-name> family ethernet-switching native-vlan-id <vlan-id>
- Step3: Associate a Layer 3 interface with the VLAN.
 - set vlans vlan-id <vlan-id> l3-interface <interface-name>
 - 13-interface <interface-name>: specifies a name for the Layer 3 interface.
- Step4: Configure an IP address for the VLAN interface.
 - set I3-interface vlan-interface <vlan-id> address <ipv4-address | ipv6-address> prefix-length
 prefix-number>
- Step5: Commit the configuration.
 - commit

3. Verifying the Configuration

 After the configuration is completed, in the configuration mode, use the run show I3-interface vlaninterface <vlan-id> command to view the state, IP address, MAC address, VLAN, MTU, description and traffic statistics.

4. Other Configurations

To clear the configuration of the VLAN interface, use the delete I3-interface vlan-interface <vlan-id>command.

Configuring the Routing

Routing is a process of forwarding packets from one network to a destination address in another network. The
implementation of route selection and packet forwarding is based on various routes stored in the routing table.
 To maintain the routing table, you can manually add or configure different routing protocols.

- The switch supports direct routing, static routing, and dynamic routing.
- Direct routing: discovered by a data link layer protocol.
- · Static routing: manually configured.
- Dynamic routing: discovered by a dynamic routing protocol. It includes the following chapters:

Configuring Static Routing

1. Overview

• The static routing is manually configured, which requires low system performance and is applicable to small-size network with simple and stable topologies.

2. Procedure

- · Before configuring the routing, make sure that the Layer 3 interface has been configured.
- **Step1:** By default, the IP routing function is disabled. In the configuration mode, enable the IP routing function.
 - set ip routing enable true
- Step2: Specify the destination address, and configure one of next-hop IP address and outgoing interface as needed.
 - set protocols static route <ip/prefixlen> next-hop <nexthop-address>
 - route <ip/prefixlen>: specifies a destination IPv4 or IPv6 address and the prefix length of 1 to 32 for CIPv4 and 1 to 128 for IPv6.
 - next-hop <nexthop-address>: specifies the next-hop IP address.
 - set protocols static interface-route <ip/prefixlen> interface <interface-name>
 - interface <interface-name>: specifies the Layer 3 interface as an outgoing interface. The value could be a VLAN interface, loopback interface, routed interface or sub-interface
- Step3: Commit the configuration
 - commit

3. Verifying the Configuration

• After the configuration is completed, in the configuration mode, use the run show route static command to view all static routing entries.

4. Other Configurations

To clear the configuration of the static interface, use the delete protocols static route<ip/prefixlen> command.

Configuring the Dynamic Routing

The dynamic routing is based on an algorithm, which requires higher system performance. It applies to networks with a large number of Layer 3 devices and can automatically adapt to the changeable network topology. The switch supports multiple dynamic routing, such as OSPF, BGP, IS-IS, etc. OSPF is the IGP (Interior Gateway Protocol)\ recommended by PicOS. Take the OSPF routing as an example to introduce how to configure a dynamic routing.

1. Overview

• OSPF (Open Shortest Path First) is developed by IETF (Internet Engineering Task Force), which uses the shortest path first(SPF) algorithm to calculate a shortest path tree (SPT) to all destination addresses based on the network topology, and is advertised through link state advertisements (LSAs). It is

applicable to the network with several hundred devices, such as small and medium-sized enterprises networks.

PicOS supports OSPFv2 and OSPFv3, which is respectively intended for IPv4 and IPv6.

2. Procedure

- Before configuring the routing, make sure that the Layer 3 interface has been configured.
- Step1: By default, the IP routing function is disabled. In the configuration mode, enable the IP routing function set ip routing enable true
- Step2: Set the OSPF router ID.
 - set protocols ospf router-id <router-id <router-id>: specifies the OSPF router ID, which
 can uniquely identify the switch within the domain. The value is in IPv4 dotted decimal format
- **Step3**: Add the specified network segment to an area. Area 0 is required.
 - set protocols ospf network <ipv4/prefixlen> area {<area-id | ipv4>}
 - network <ipv4/prefixlen>: specifies the network prefix and prefix length in IPv4 format.
 - area {<area-id | ipv4>}: specifies the OSPF area; the value could be in IPv4 dotted decimal format or a integer ranging from 0 to 4294967295.
- **Step4:** Commit the configuration.
 - commit

Verifying the Configuration

 After the configuration is completed, in the configuration mode, use the run show route ospf command to view all OSPF routing entries.

Other Configurations

• To delete the OSPF routing configuration, use the delete protocols ospf command

Security Configuration

Configuring an ACL

1. Overview

- ACL (Access Control List) is packet filtering rules through defining conditions of source addresses, destination addresses, interfaces, etc. The switch permits or denies packets according to the configured action of ACL rules.
- ACL can manage network access behaviors, prevent network attacks, and improve bandwidth utilization through accurately identifying and controlling packets, which ensures network security and service quality.

2. Procedure

- Step1: Set the sequence number of priority.
 - set firewall filter <filter-name> sequence <sequence-number>
 - sequence <sequence-number>: specifies the sequence number. Smaller values represent higher priorities. The range is 0-9999
- Step2: Specify the source address and source port to filter matched packets.

- set firewall filter <filter-name> sequence <sequence-number> from {source-address-ipv4
 <address/prefix-length> | source-address-ipv6 < address/prefix-length > | source-mac-address
 <mac-address> | source-port <port-number>}
- source-port <port-number>: specifies the source port number or port number range, for example,
 5000 or 7000..7050.
- Step3: Specify the execution action for packets matching the filter.
 - set firewall filter <filter-name> sequence <sequence-number> then action {discard | forward} action
 {discard | forward}: discards or forwards matched packets.
- **Step4:** Specify the physical interface, VLAN interface, or routed interface to filter matched incoming and egress packets.
 - set system services ssh connection-limit <int>connection-limit <int>: specifies the maximum number of allowed connections, the valid number ranges 0-250. The default value is 0, which removes the connection limit
- Step3: (Optional) Specify the listening port number of the SSH server.
 - set system services ssh port <port-number>
 - port <port-number>: specifies the listening port number of the SSH server. The value is an integer ranging from 1 to 65535. The default value is 22
- Step4: Commit the configuration.
 - · commit

3. Verifying the Configuration

After the configuration is completed, use ssh admin@<ip-address> -p <port> to check whether the switch
can be accessed through SSH.

4. Other Configurations

- To disable the SSH service, use the set system services ssh disable true command.
- To delete the SSH configuration, usethe delete system services ssh command.

Typical Configuration

Typical Configuration Example

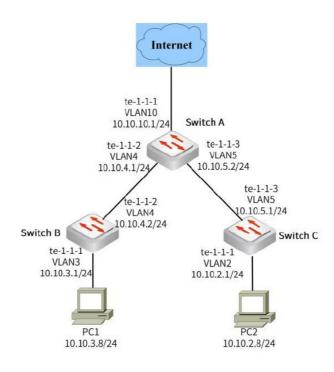


Figure 5-1 Topology of Access Network

• The data plan is shown below

Device	Interface	VLAN and IP Address
Switch A	te-1-1-1 te-1-1-2 te-1-1-3	VLAN: 10 IP address: 10.10.10.1/24 VLAN: 4 IP address: 10.10.4.1/24 VLAN: 5 IP address: 10.10 .5.2/24
Switch B	te-1-1-1	VLAN: 3 IP address: 10.10.3.1/24
	te-1-1-2	VLAN: 4 IP address: 10.10.4.2/24
Switch C	te-1-1-1	VLAN: 2 IP address: 10.10.2.1/24
	te-1-1-3	VLAN: 5 IP address: 10.10.5.1/24
PC1	10.10.3.8/24	

Procedure

- Before configuring the following steps, make sure you have logged in the specified switch through the Console port or SSH.
- For detailed information, see Initial Setup and Configuring the SSH Access.
- Step1: In the configuration mode, configure the host name of the switch respectively as SwitchA, SwitchB, and SwitchC.
- Run the same command on other switches to change the hostname to SwitchB and SwitchC.

- 1. admin@PICOS> configure
- 2. admin@PICOS# set system hostname SwitchA
- 3. admin@PICOS# commit
- 4. admin@SwitchA#
- Step2: Configure the interface and VLAN.
- Switch A

Interface te-1-1-1:

- 1. admin@SwitchA# set vlans vlan-id 10
- 2. admin@SwitchA# set interface gigabit-ethernet te-1/1/1 family ethernet-switching native-vlan-id 10
- 3. admin@SwitchA# set vlans vlan-id 10 l3-interface vlan10
- 4. admin@SwitchA# set I3-interface vlan-interface vlan10 address 10.10.10.1 prefix-length 24
- 5. admin@SwitchA# commit

Interface te-1-1-2:

- 1. admin@SwitchA# set vlans vlan-id 4
- 2. admin@SwitchA# set interface gigabit-ethernet te-1/1/2 family ethernet- admin@SwitchA# switching native-vlan-id 4
- 3. admin@SwitchA# set vlans vlan-id 4 l3-interface vlan4
- 4. admin@SwitchA# set l3-interface vlan-interface vlan4 address 10.10.4.1 prefix-length 24
- 5. admin@SwitchA# commit

Interface te-1-1-3:

- 1. admin@SwitchA# set vlans vlan-id 5
- 2. admin@SwitchA# set interface gigabit-ethernet te-1/1/3 family ethernet-switching native-vlan-id 5
- 3. admin@SwitchA# set vlans vlan-id 5 l3-interface vlan5
- 4. admin@SwitchA# set l3-interface vlan-interface vlan5 address 10.10.5.2 prefix-length 24
- 5. admin@SwitchA# commit

Switch B

Interface te-1-1-1:

- admin@SwitchB# set vlans vlan-id 3
- 2. admin@SwitchB# set interface gigabit-ethernet te-1/1/1 family ethernet-switching native-vlan-id 3
- 3. admin@SwitchB# set vlans vlan-id 3 l3-interface vlan3
- 4. admin@SwitchB# set I3-interface vlan-interface vlan3 address 10.10.3.1 prefix-length 24
- 5. admin@SwitchB# commit

Interface te-1-1-2:

- 1. admin@SwitchB# set vlans vlan-id 4
- 2. admin@SwitchB# set interface gigabit-ethernet te-1/1/2 family ethernet-switching native-vlan-id 4
- 3. admin@SwitchB# set vlans vlan-id 4 l3-interface vlan4
- 4. admin@SwitchB# set I3-interface vlan-interface vlan4 address 10.10.4.2 prefix-length 24
- 5. admin@SwitchB# commit

· Switch C

Interface te-1-1-1:

- 1. admin@SwitchC# set vlans vlan-id 2
- 2. admin@SwitchC# set interface gigabit-ethernet te-1/1/1 family ethernet-switching native-vlan-id 2
- 3. admin@SwitchC# set vlans vlan-id 2 l3-interface vlan2
- 4. admin@SwitchC# set l3-interface vlan-interface vlan2 address 10.10.2.1 prefix-length 24
- 5. admin@SwitchC# commit

Interface te-1-1-3:

- 1. admin@SwitchC# set vlans vlan-id 5
- 2. admin@SwitchC# set interface gigabit-ethernet te-1/1/3 family ethernet-switching native-vlan-id 5
- 3. admin@SwitchC# set vlans vlan-id 5 l3-interface vlan5
- 4. admin@SwitchC# set I3-interface vlan-interface vlan5 address 10.10.5.1 prefix-length 24
- 5. admin@SwitchC# commit
- Step3: Configure the IP address and default gateway of PC1 and PC2.

PC1:

- 1. root@UbuntuDockerGuest-1:~# ifconfig eth0 10.10.3.8/24
- 2. root@UbuntuDockerGuest-1:~# route add default gw 10.10.3.1

PC2:

- 1. root@UbuntuDockerGuest-2:~# ifconfig eth0 10.10.2.8/24
- 2. root@UbuntuDockerGuest-2:~# route add default gw 10.10.2.1

Step4: Configure the routing. You can configure the static routing or OSPF routing to connect network.

Connecting network through the static routing

Switch A:

- 1. admin@SwitchA# set ip routing enable true
- 2. admin@SwitchA# set protocols static route 10.10.2.0/24 next-hop 10.10.5.1

- 3. admin@SwitchA# set protocols static route 10.10.3.0/24 next-hop 10.10.4.2
- 4. admin@SwitchA# commit

Switch B:

- 1. admin@SwitchB# set ip routing enable true
- 2. admin@SwitchB# set protocols static route 0.0.0.0/0 next-hop 10.10.4.1
- 3. admin@SwitchB# commit

Switch C:

- 1. admin@SwitchC# set ip routing enable true
- 2. admin@SwitchC# set protocols static route 0.0.0.0/0 next-hop 10.10.5.2
- 3. admin@SwitchC# commit

Connecting network through the OSPF routing

Switch A:

- 1. admin@SwitchA# set I3-interface loopback lo address 1.1.1.1 prefix-length 32
- 2. admin@SwitchA# set protocols ospf router-id 1.1.1.1
- 3. admin@SwitchA# set protocols ospf network 10.10.4.0/24 area 0
- 4. admin@SwitchA# set protocols ospf network 10.10.10.0/24 area 0
- 5. admin@SwitchA# set protocols ospf network 10.10.5.0/24 area 1
- 6. admin@SwitchA# commit

admin@SwitchB# set I3-interface loopback lo address 2.2.2.2 prefix-length 32

- 1. admin@SwitchB# set protocols ospf router-id 2.2.2.2
- 2. admin@SwitchB# set protocols ospf network 10.10.4.0/24 area 0
- 3. admin@SwitchB# set protocols ospf network 10.10.3.0/24 area 0
- 4. admin@SwitchB# commit

Switch C:

- 1. admin@SwitchC# set l3-interface loopback lo address 3.3.3.3 prefix-length 32
- 2. admin@SwitchC# set protocols ospf router-id 3.3.3.3
- 3. admin@SwitchC# set protocols ospf network 10.10.2.0/24 area 1
- 4. admin@SwitchC# set protocols ospf network 10.10.5.0/24 area 1
- 5. .admin@SwitchC# commit
- 6. Verifying the Configuration

View the routing table of each switch.

1. Static Routing:

Figure 5-2 Static Routing Entries of SwitchA

Figure 5-3 Static Routing Entries of SwitchB

Figure 5-4 Static Routing Entries of SwitchC

2. OSPF Routing:

Figure 5-5 OSPF Routing Entries of SwitchA

Figure 5-6 OSPF Routing Entries of SwitchB

Figure 5-7 OSPF Routing Entries of SwitchC

Run Ping command to check the connectivity between PC1 and PC2.

1. PC1 ping PC2

```
root@UbuntuDockerGuest-1:~# ping 10.10.2.8

PING 10.10.2.8 (10.10.2.8) 56(84) bytes of data.

64 bytes from 10.10.2.8: icmp_seq=1 ttl=61 time=29.1 ms

64 bytes from 10.10.2.8: icmp_seq=2 ttl=61 time=1.99 ms

64 bytes from 10.10.2.8: icmp_seq=3 ttl=61 time=2.29 ms

64 bytes from 10.10.2.8: icmp_seq=4 ttl=61 time=3.27 ms

64 bytes from 10.10.2.8: icmp_seq=5 ttl=61 time=3.92 ms

64 bytes from 10.10.2.8: icmp_seq=5 ttl=61 time=2.44 ms
```

Figure 5-8 Result of PC1 Ping PC2

2. 2. PC2 ping PC1

```
root@UbuntuDockerGuest-2:~# ping 10.10.3.8

PING 10.10.3.8 (10.10.3.8) 56(84) bytes of data.

64 bytes from 10.10.3.8: icmp_seq=1 ttl=61 time=2.01 ms

64 bytes from 10.10.3.8: icmp_seq=2 ttl=61 time=2.92 ms

64 bytes from 10.10.3.8: icmp_seq=3 ttl=61 time=2.53 ms

64 bytes from 10.10.3.8: icmp_seq=4 ttl=61 time=2.62 ms

64 bytes from 10.10.3.8: icmp_seq=5 ttl=61 time=2.77 ms

64 bytes from 10.10.3.8: icmp_seq=6 ttl=61 time=2.49 ms
```

Figure 5-9 Result of PC2 Ping PC1

MORE INFO

www.fs.com

FAQ

Q: How do I reset the switch to factory settings?

A: To reset the switch to factory settings, access the CLI and use the appropriate command to initiate a factory reset process.

Documents / Resources

```
FS PicOS Initial Configuration [pdf] User Guide
PicOS Initial Configuration, PicOS, Initial Configuration, Configuration
```

References

- FS.com Europe HPC, Data Centre, Enterprise, Telecom
- User Manual

Manuals+, Privacy Policy

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