



PacketController Quick Start Guide

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PacketController Networks

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Introduction

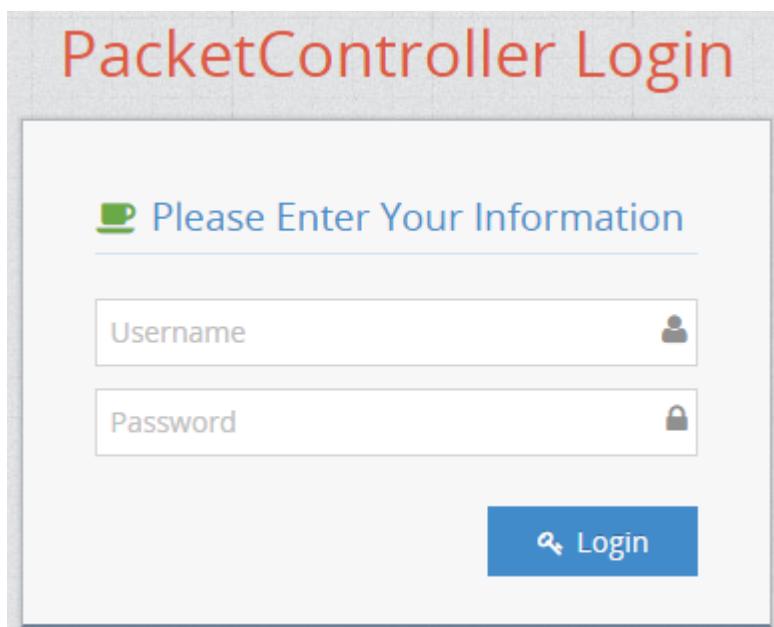
Please note this quick start guide will help getting the united up and onto the network. Configuration of the individual modules is referenced in the manuals.

Bridge setup

Step 1

The first step is to logon the PacketController Management Portal.

- *URL: https://[IP address of Management Port]*
- *Default username: admin*
- *Default password: password*



PacketController Login

Please Enter Your Information

Username

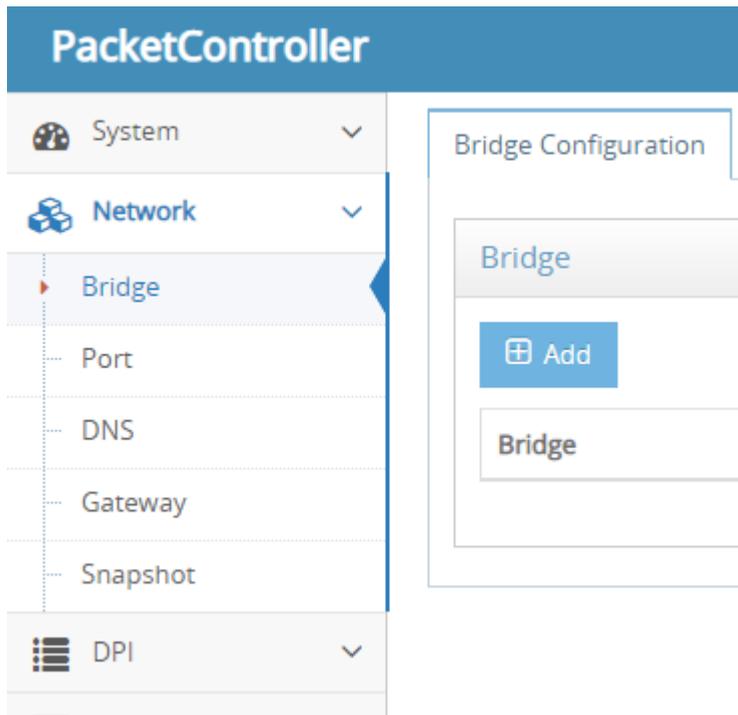
Password

Login

Step 2

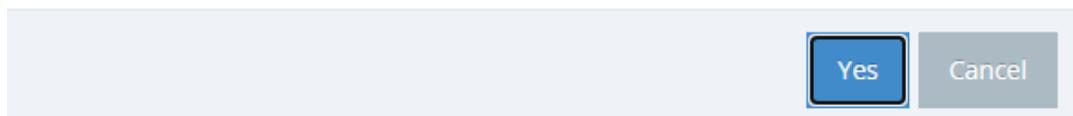
At least one bridge should be configured, please note that ports for bridge should not have any IP settings. Also please do not put management port in bridge.

- Go to Network -> Bridge
-

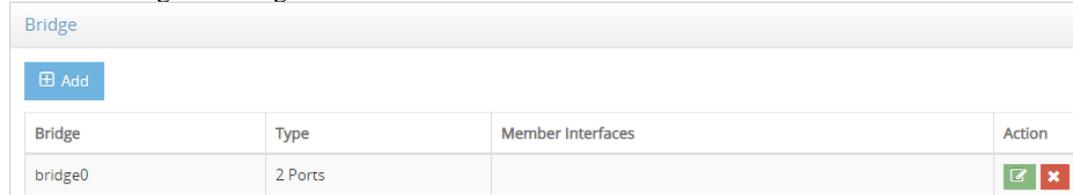


- Click Add button
- In the popup window, click Yes button

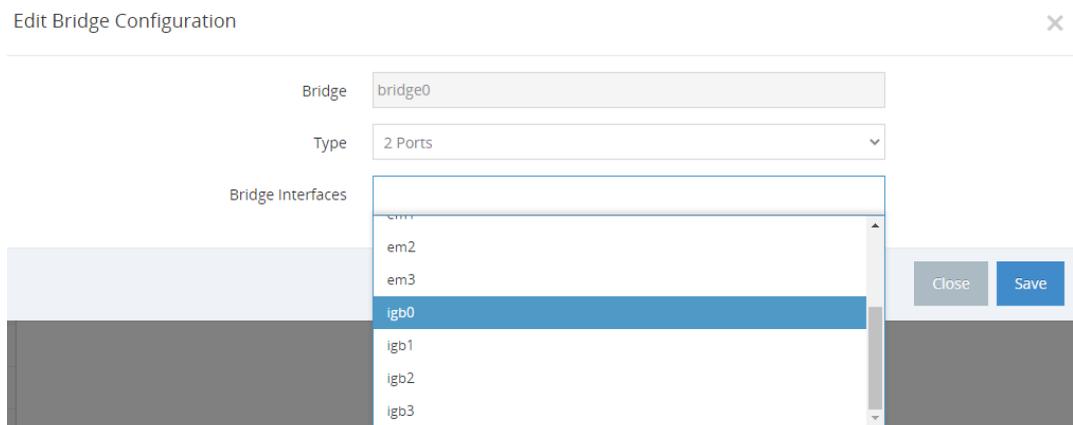
Are you sure you want to add one bridge?



- The new bridge is configured



- Click  icon



- In most case, select 2 Ports in Type dropdown list, and then select 2 ports for this bridge

Edit Bridge Configuration
✕

Bridge

Type

Bridge Interfaces

Close Save

- Click Save button
- The bridge member interfaces should be configured.

Bridge

Add

Bridge	Type	Member Interfaces	Action
bridge0	2 Ports	igb1,igb0	✎ ✕

Step 3

The third step is to set up external interface for this bridge. The external interface is connected to external network like edge router or firewall while internal interface is to internal network like core switch.

In this example, we use igb0 as the external interface for the bridge.

- Go to Network -> Ports

Port

Port	Type	IP Address	MAC	Status	Action
ix0	Internal		b0:51:8e:0a:2f:77	Down	✎ ✕ 🔗
ix1	Internal		b0:51:8e:0a:2f:78	Down	✎ ✕ 🔗
em0	Internal		b0:51:8e:0a:0f:df	Down	✎ ✕ 🔗
em1	Internal		b0:51:8e:0a:0f:e0	Down	✎ ✕ 🔗
em2	Internal	192.168.0.168	b0:51:8e:0a:0f:dd	Up	✎ ✕ 🔗
em3	Internal		b0:51:8e:0a:0f:de	Down	✎ ✕ 🔗
igb0	Internal		b0:51:8e:08:d7:78	Down	✎ ✕ 🔗
igb1	Internal		b0:51:8e:08:d7:79	Down	✎ ✕ 🔗
igb2	Internal		b0:51:8e:08:d7:7a	Down	✎ ✕ 🔗
igb3	Internal		b0:51:8e:08:d7:7b	Down	✎ ✕ 🔗

- Find the row of igb0 and click icon in Action column

Edit Port Configuration ✕

Name Type

Log Throughput Global Port

TCP Optimization TCP Window Size

Bandwidth In Bandwidth Out

Burst In Burst Out

Congestion In Congestion Out

QoS RuleSet Mode FW RuleSet Mode

- Select External in Type dropdown list, and select Recommended for both QoS RuleSet Mode and FW RuleSet Mode
- Input 0 in Bandwidth In and Bandwidth Out
- Click Save button
- The type of igb0 is set to External

Port	Type	IP Address
ix0	Internal	
ix1	Internal	
em0	Internal	
em1	Internal	
em2	Internal	192.168.0.168
em3	Internal	
igb0	External	
igb1	Internal	
igb2	Internal	
igb3	Internal	

Date/Time Settings

Date/Time should be configured correctly for graph and time plan to work.

- Go to System -> Settings and select **Time** tab

Host Name

Time

Stats Database

Time Configuration

System Time

2021-01-04 16:43:00

Time Zone

Asia/Hong_Kong ▼

NTP Server

pool.ntp.org

Date

01/04/2021 📅

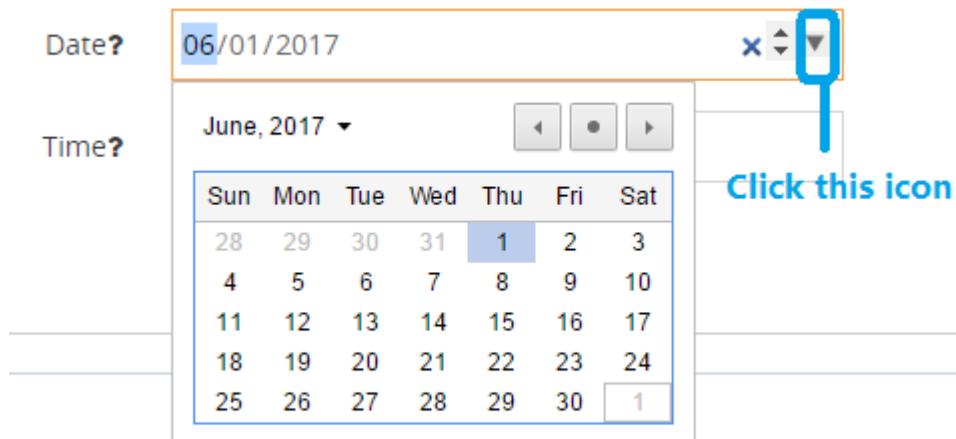
Time

04:43 PM 🕒

Save

- Select Time Zone and input NTP Server, Date and Time. If you are unsure about NTP Server, please use the default one – pool.ntp.org
- Click **Save** button
- Reboot the unit

Tips: Use Date Plug-in to set the Date



NIC auto negotiation

PacketController is working as layer 2 transparent bridge and running half duplex ports will cause serious network packet loss.

Always try auto negotiate rather than forcing the media first as you may change equipment in the future (switch or router) and forget the settings are forced which could cause you problems.

If there is need to manually set the speed of network interfaces in the bridge, the procedures as

below:

- Go to Network->Ports

- Find the network interface and click  icon

igb0	External		b0:51:8e:08:d7:78	Down	  
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- In the popup window, select the media type for this network interface

Edit Port Media Configuration ✕

Media Speed

Autoselect

- Autoselect
- 10baseT(Half-Duplex)
- 10baseT(Full-Duplex)
- 100baseTX(Half-Duplex)
- 100baseTX(Full-Duplex)
- 1000baseTX(Half-Duplex)
- 1000baseTX(Full-Duplex)

ix1 Internal

Close Save

- Click Save button