



Packet Tracer 4.11

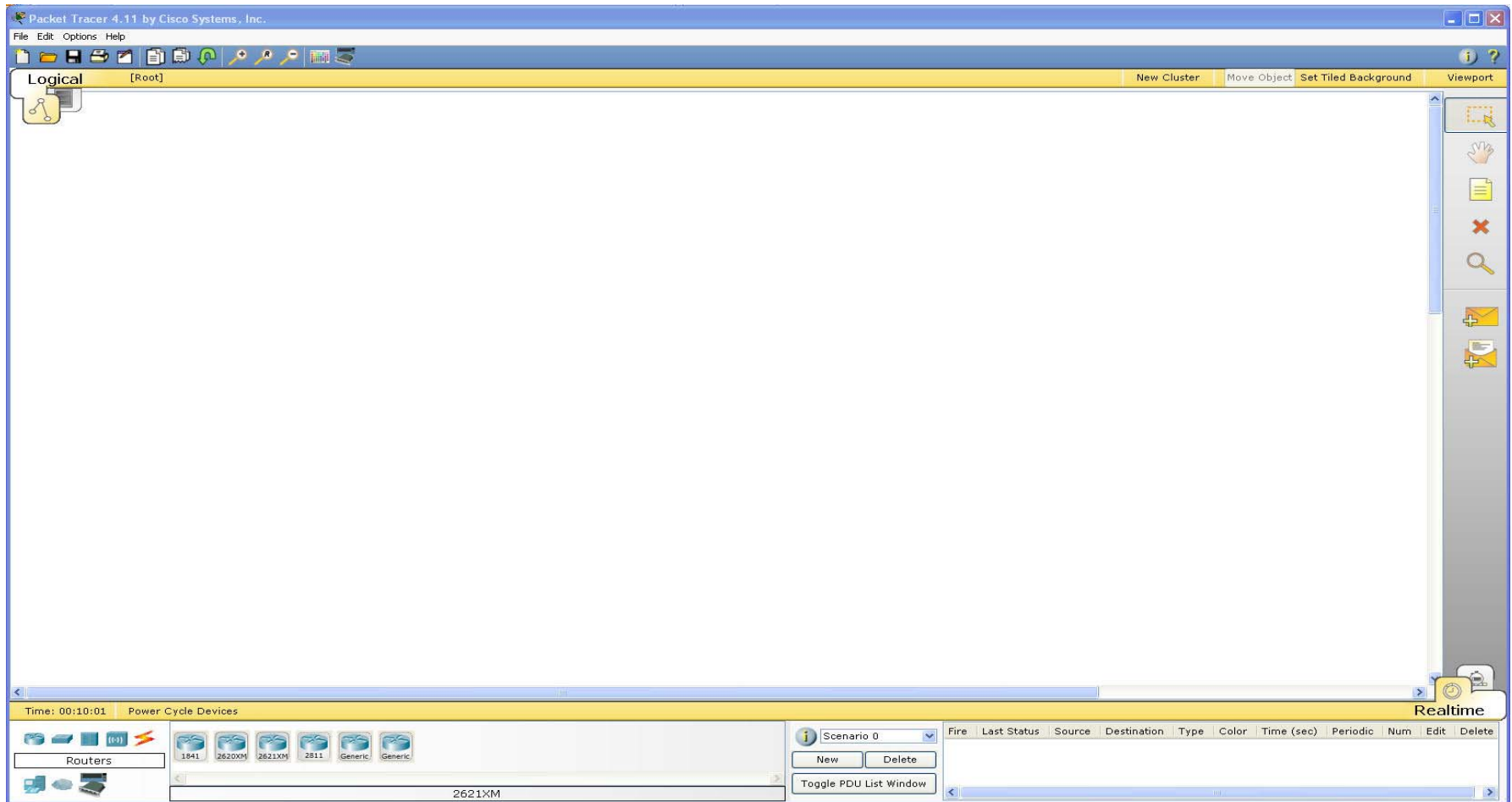


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Pourquoi Packet Tracer ?

- Packet Tracer est un outil de simulation d'équipements Cisco.
- Il permet aux stagiaires de pratiquer même à domicile.
- Il permet de visualiser le fonctionnement d'un interréseau.
- Il permet des échanges de configuration entre périphériques physiques et les équipements en Packet Tracer.

Fenêtre générale de Packet Tracer



Création d'une topologie



Ajout d'un équipement

Création d'un équipement

1. Cliquez sur le bouton de Sélection

2. Sélectionnez un type d'équipement

3. Sélectionnez un équipement

4. Cliquez sur l'espace de travail

2620XM Router0

Power Cycle Devices

Routers

1841 2620XM 2621XM 2811 Generic Generic

2620XM

Realtime

Fire	Last Status	Source	Destination
Scenario 0			
New Delete			
Toggle PDU List Window			

Personnalisation d'un équipement

Logical [Root]

Router0

Physical Config CLI

Physical Device View

Zoom In Original Size

2621XM Router0

MODULES

- NM-1E
- NM-1E2W
- NM-1FE-FX
- NM-1FE-TX
- NM-1FE2W
- NM-2E2W
- NM-2FE2W
- NM-2W
- NM-4A/S
- NM-4E
- NM-8A/S
- NM-8AM
- NM-Cover
- WIC-1AM
- WIC-1T
- WIC-2AM
- WIC-2T
- WIC-Cover

1. Arrêtez le périphérique

2. Sélectionnez un module

3. Glissez le module sur le périphérique

4. Remettez le périphérique sous tension

The 2-port asynchronous/synchronous serial network module provides flexible multi-protocol support, with each port individually configurable in synchronous or asynchronous mode, offering mixed-media dial support in a single chassis. Applications for Asynchronous/Synchronous support include: Low speed WAN aggregation (up to 128 Kbps), dial-up modem support, Async or Sync connections to management ports of other equipment, and...

Time: 00:08:23 Power Cycle Devices

Realtime

Scenario 0

New Delete

Toggle PDU List Window

Routers

1841 2620XM 2621XM 2811 Generic Generic

2621XM

Connexion des équipements



Création d'une connexion

3. Sélectionnez une interface sur équipement destination

1. Sélection une connexion

2. Sélectionnez une interface sur équipement source

Packet Tracer 4.1.1 by Cisco Systems, Inc.

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

Time: 00:10:53 Power Cycle Devices

Connections

Serial DCE

Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time (sec)	Periodic	Num	Edit	Delete

Realtime

Configuration d'un périphérique



Configuration d'un périphérique

Packet Tracer 4.11 by Cisco Systems, Inc.

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

Router0

Physical Config CLI

GLOBAL

Settings

ROUTING

Static

RIP

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/0

Serial0/1

Global Settings

Display Name Router0

Hostname Router

NVRAM Erase Save

Startup Config Load... Export...

Running Config Merge... Export...

Equivalent IOS Commands

```

Router(config-router)#
Router(config-router)#exit
Router(config)#
Router(config)#router rip
Router(config-router)#
    
```

2621XM Router0

PC-PT PC0

2621XM Router1

Via une GUI

Time: 00:19:45 Power Cycle Devices

Connections

Console

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time (sec) Periodic Num Edit Delete

Realtime

Configuration d'un périphérique

Packet Tracer 4.1.1 by Cisco Systems, Inc.

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

Router0

Physical Config CLI

IOS Command Line Interface

```

2 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
16384K bytes of processor board System flash (Read/Write)

--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n

Press RETURN to get started!

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#
Router(config-router)#exit
Router(config)#
Router(config)#router rip
Router(config-router)#
  
```

Copy Paste

2621XM Router0

PC-PT PC0

2621XM Router1

En ligne de commande

Time: 00:19:45 Power Cycle Devices

Connections Console

Scenario 0

Fire Last Status Source Destination Type Color Time (sec) Periodic Num Edit Delete

New Delete

Toggle PDU List Window

Realtime

Configuration d'un périphérique

Packet Tracer 4.1.1 by Cisco Systems, Inc.

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

PC0

2621XM Router0

2621XM Router1

PC0

Physical Config Desktop

Terminal

```
X.25 software, Version 3.0.0.
2 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
16384K bytes of processor board System flash (Read/Write)

--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n

Press RETURN to get started!

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#
Router(config-router)#exit
Router(config)#
Router(config)#router rip
Router(config-router)#
```

Via le Port Console à partir d'un ordinateur

Time: 00:19:45 Power Cycle Devices

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time (sec) Periodic Num Edit Delete

Realtime

Console

Importation/Exportation de configuration

The screenshot displays the Packet Tracer 4.1 interface. On the left, a network diagram shows a PC-PT PC0 connected to a 2950T-24 Switch0, which is in turn connected to a 621XM Router0. The Router0 configuration window is open, showing the 'Config' tab with 'Global Settings' for 'Router0'. The hostname is set to 'Merida'. An 'Open' file dialog is also open, showing a directory named 'Sauvegarde des configuration' containing files 'merida.TXT', 'switch1.TXT', 'switch2.TXT', and 'vargas.TXT'. The 'Nom du fichier' field is set to 'merida.TXT' and the 'Fichiers de type' is set to 'Config Files (*.txt)'. The status bar at the bottom indicates 'Time: 00:20:05' and 'Power Cycle Devices'.

Chargez la configuration d'un équipement réel en startup-config

Importation/Exportation de configuration

The screenshot displays the Packet Tracer 4.1 interface. On the left, a network diagram shows a PC-PT PC0 connected to a 2950T-24 Switch0, which is in turn connected to a 621XM Router0. The Router0 configuration window is open, showing the 'Global Settings' tab with the following details:

- Display Name: Router0
- Hostname: Merida
- NVRAM: Erase, Save
- Startup Config: Load..., Export...
- Running Config: Merge..., Export...

An 'Open' file dialog is also open, showing the 'Sauvegarde des configuration' folder containing files: merida.TXT, switch1.TXT, switch2.TXT, and vargas.TXT. The 'Nom du fichier' field is set to 'merida.TXT' and 'Fichiers de type' is set to 'Config Files (*.txt)'. The status bar at the bottom indicates 'Time: 00:20:05' and 'Power Cycle Devices'.

Ajoutez la configuration d'un équipement réel en running-config

Importation/Exportation de configuration

The screenshot shows the Packet Tracer 4.1 interface. On the left, a network diagram displays a PC-PT PC0 connected to a 2950T-24 Switch0, which is in turn connected to a 621XM Router0. On the right, the configuration window for Switch0 is open, showing the 'Config' tab with 'Global Settings' visible. Below this, an 'Open' file dialog is open, showing a file explorer view of a 'Serveur TFTP Solaris' directory. Two configuration files are listed: 'abraracourcix-config.txt' and 'agecanonix-config.txt', with the latter selected. The 'Nom du fichier' field contains 'agecanonix-config.txt' and the 'Fichiers de type' is set to 'Config Files (*.txt)'. The status bar at the bottom indicates 'Time: 00:20:39', 'Power Cycle Devices', and 'Realtime'.

Récupérez la configuration d'un équipement réel à partir d'une sauvegarde sur serveur TFTP

Importation/Exportation de configuration

The screenshot displays the Packet Tracer interface. On the left, a network diagram shows a PC-PT (PC0) connected to a 2950T-24 (Switch0), which is in turn connected to a 621XM (Router0). The main window is titled 'Logical [Root]'. On the right, the configuration window for 'Switch0' is open, showing the 'Config' tab. The 'Global Settings' section is visible, with fields for 'Display Name' (Switch0) and 'Hostname' (Switch). Below these are buttons for 'NVRAM' (Erase, Save), 'Startup Config' (Load..., Export...), and 'Running Config' (Merge..., Export...). A 'Save As' dialog box is overlaid on the configuration window, showing the file name 'Switch0_running-config.txt' and the type 'Config Files (*.txt)'. The dialog box also shows the file location 'Configuration Packet Tracer' and various file management icons.

Sauvegardez une configuration de Packet Tracer en fichier texte

Contrôle de la connectivité



Contrôle de la connectivité

1. Pour générer un Ping, cliquez sur PDU simple

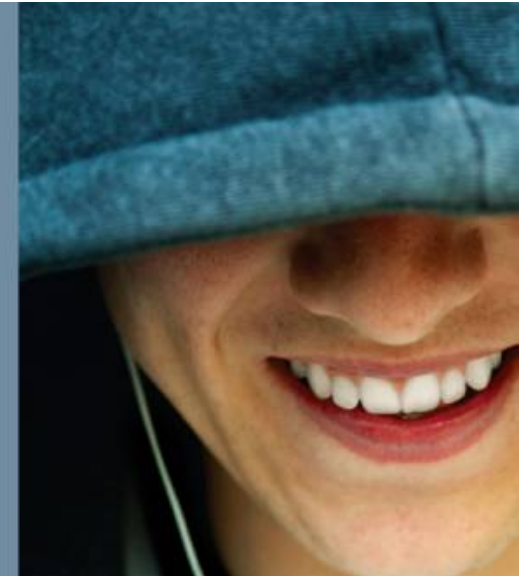
2. Sélectionnez la source

3. Sélectionnez la destination

4. Résultats

Fire	Last Status	Source	Destination	Type	Color	Time (sec)	Periodic	Num	Edit	De
	Successful	Marketing_2	Engenerring_3	ICMP		0.000	N	0	(edit)	(d)
	Successful	Marketing_2	Engenerring_3	ICMP		0.000	N	1	(edit)	(d)

Mode Simulation



Mode Simulation

The screenshot shows the Packet Tracer 4.1.1 interface. The main workspace displays a network topology with a central router (R_Main) connected to two switches (SW_Main01 and SW_Main02). SW_Main01 is connected to three PCs (Marketing_3, Accounting_3, Engenerring_3), and SW_Main02 is connected to three PCs (Marketing_2, Accounting_2, Engenerring_2). An ISP is connected to the network via a switch (Switch7) and a router (Router3). The interface includes a top menu bar, a toolbar, and a bottom status bar with simulation controls.

Four red boxes with arrows point to specific elements in the interface, labeled with numbers 1 through 4:

- 1. Passez en mode simulation**: Points to the 'Simulation' button in the bottom right corner.
- 2. Sélectionnez la source**: Points to the 'Marketing_2' PC icon in the lower-left area.
- 3. Sélectionnez la destination**: Points to the 'Engenerring_3' PC icon in the lower-right area.
- 4. Résultats**: Points to the 'Simulation Panel' window on the right side of the screen.

The 'Simulation Panel' window displays an 'Event List' table with the following data:

Vis.	Time (s)	Last Device	At Device	Type	Int
	0.000	--	Marketing_2	ICMP	
	0.002	Switch6	Switch5	ICMP	
	0.003	Switch5	Router4	ICMP	
	0.004	Router4	Switch5	ICMP	
	0.005	Switch5	Engenerring_3	ICMP	
	0.006	Engenerring_3	Switch5	ICMP	
	0.007	Switch5	Router4	ICMP	
	0.008	Router4	Switch5	ICMP	
	0.009	Switch5	Switch6	ICMP	
	0.010	Switch6	Marketing_2	ICMP	



Conclusions



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- Même si Packet Tracer ne prend pas en charge l'ensemble des commandes (la redistribution de protocoles par exemple), il constitue un outil d'aide pédagogique extraordinaire.
- Il est nécessaire de soutenir l'effort accompli en espérant voir apparaître d'autres périphériques notamment des switches layer 3.

Questions Réponses



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