



Packet Tracer 4.11

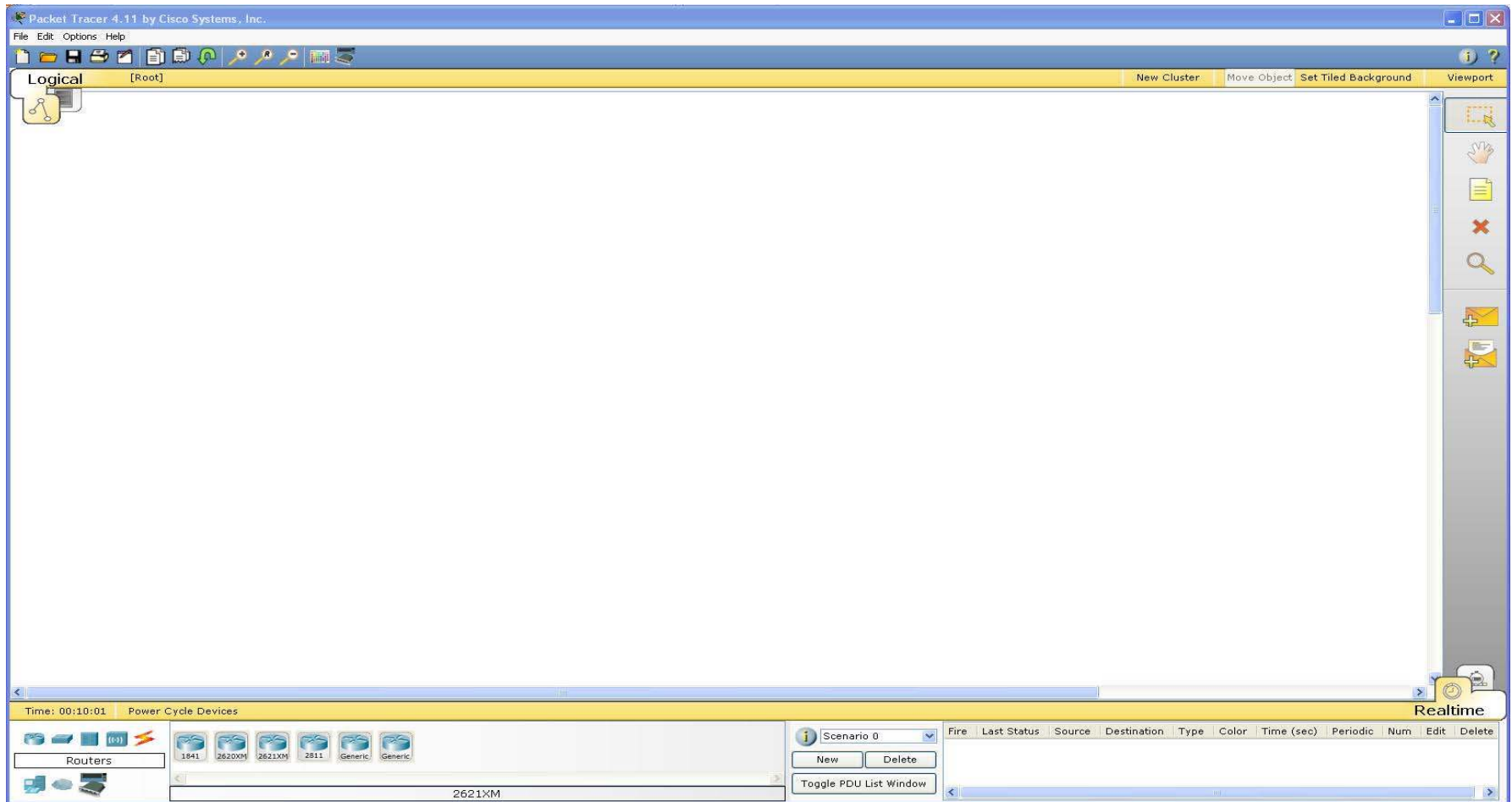


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Pourquoi Packet Tracer ?

- 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 interrèseau.
- 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

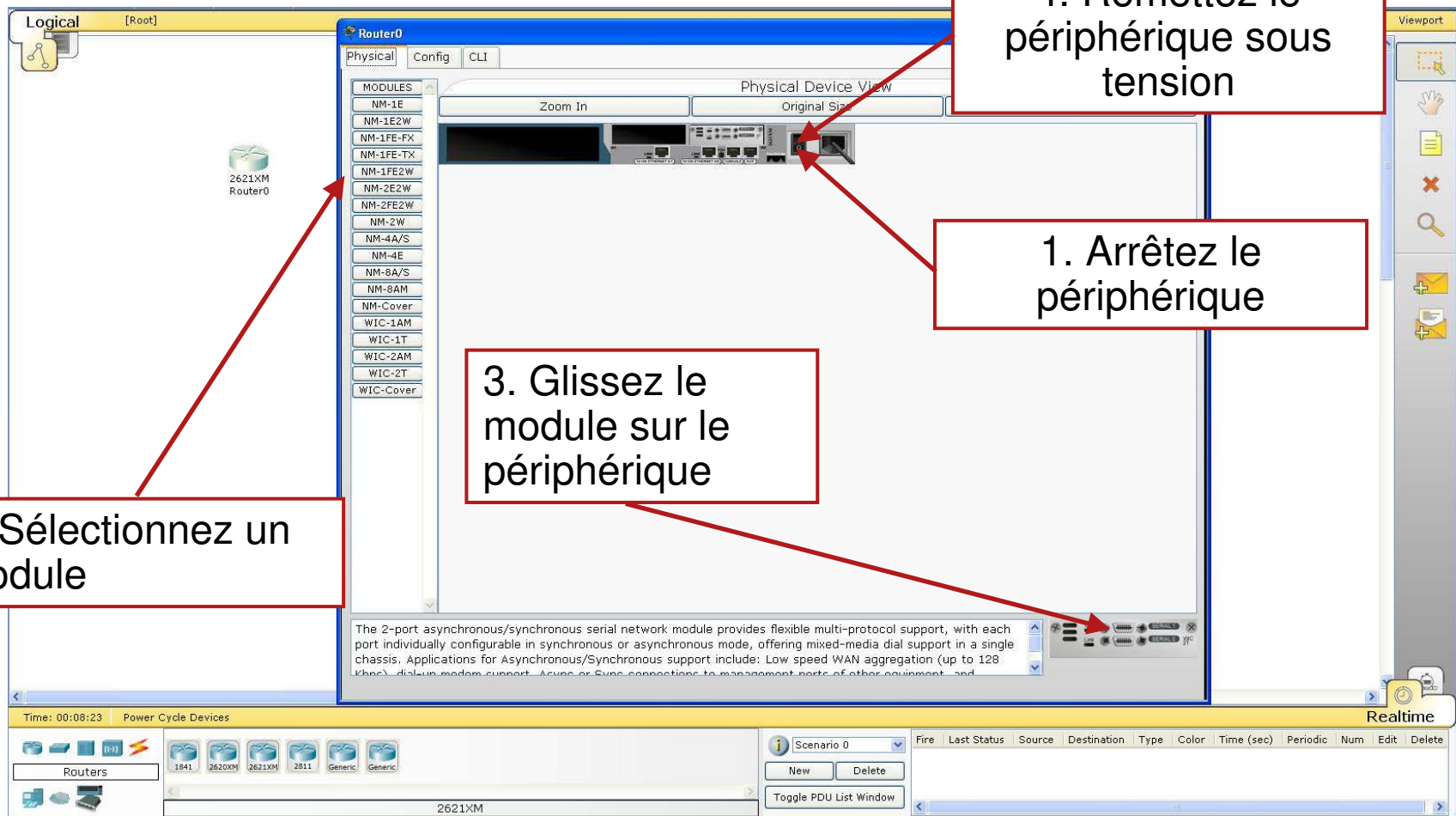
1. Cliquez sur le bouton de Sélection

2. Sélectionnez un type d'équipement

3. Sélectionnez un équipement

4. Cliquez sur l'espace de travail

Personnalisation d'un équipement



The screenshot shows the Packet Tracer 4.1 interface with the following components and instructions:

- Logical View:** Shows a 2621XM Router0 icon. An arrow points to it with the instruction: **2. Sélectionnez un module** (Select a module).
- Physical Device View:** Shows the router's chassis with a list of modules on the left. An arrow points to the 'NM-1E' module with the instruction: **3. Glissez le module sur le périphérique** (Drag the module onto the device).
- Physical Device View:** Shows the router's front panel. An arrow points to the 'Serial' port with the instruction: **1. Arrêtez le périphérique** (Stop the device).
- Physical Device View:** Shows the router's front panel. An arrow points to the 'Serial' port with the instruction: **4. Remettez le périphérique sous tension** (Put the device back under power).

The Realtime view at the bottom shows a table with columns: Fire, Last Status, Source, Destination, Type, Color, Time (sec), Periodic, Num, Edit, Delete. The table is currently empty.

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.

File Edit Options Help

Logical [Root]

New Cluster Move Object Set Tiled Background Viewport

2621XM Router0

2621 Router1

Time: 00:10:53 Power Cycle Devices

Connections

Serial DCE

Scenario 0

New Delete

Toggle PDU List Window

Realtime

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

Configuration d'un périphérique

Configuration d'un périphérique

Packet Tracer 4.1.1 by Cisco Systems, Inc.

File Edit Options Help

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.

File Edit Options Help

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

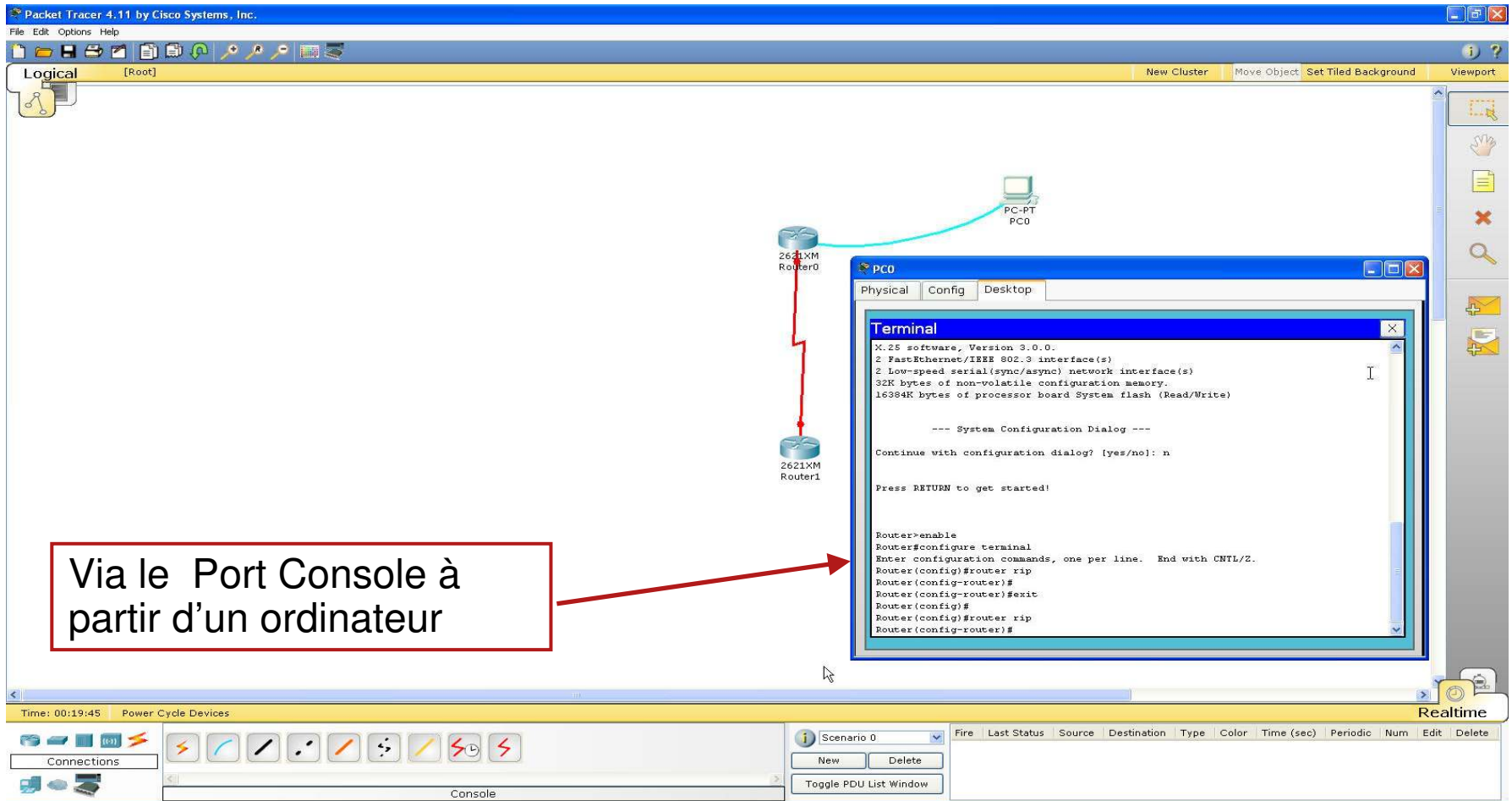
New Delete

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

PC-PT 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

Connections

Console

Scenario 0

New Delete

Toggle PDU List Window

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

Realtime

Importation/Exportation de configuration

The screenshot displays the Packet Tracer 4.1 interface. The main workspace shows a network topology with a PC-PT (PC0) connected to a 2950T-24 (Switch0), which is connected to a 621XM (Router0). The Router0 configuration window is open, showing the 'Config' tab and 'Global Settings'. The 'Display Name' is 'Router0' and the 'Hostname' is 'Merida'. The 'Startup Config' section has 'Load...' and 'Export...' buttons. An 'Open' file dialog is also open, showing a list of files in the 'Sauvegarde des configuration' folder: merida.TXT, switch1.TXT, switch2.TXT, and vargas.TXT. The 'Nom du fichier' is set to 'merida.TXT' and 'Fichiers de type' is set to 'Config Files (*.txt)'. The 'Ouvrir' button is highlighted.

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

Time: 00:20:05 Power Cycle Devices Realtime

Importation/Exportation de configuration

The screenshot displays the Packet Tracer 4.1 interface. The main workspace shows a network topology with a PC-PT (PC0) connected to a 2950T-24 Switch0, which is connected to a 621XM Router0. The Router0 configuration window is open, showing the 'Config' tab with 'Global Settings'. The 'Display Name' is 'Router0' and the 'Hostname' is 'Merida'. The 'NVRAM' section has 'Erase' and 'Save' buttons. The 'Startup Config' section has 'Load...' and 'Export...' buttons. The 'Running Config' section has 'Merge...' and 'Export...' buttons. An 'Open' file dialog is also open, showing a list of files in the 'Sauvegarde des configuration' folder: '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 'Ouvrir' button is highlighted.

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

Time: 00:20:05 Power Cycle Devices Realtime

Importation/Exportation de configuration

The screenshot displays the Packet Tracer 4.1 interface. The main workspace shows a network topology with a PC-PT PC0 connected to a 2950T-24 Switch0, which is in turn connected to a 621XM Router0. The top toolbar includes options like 'Logical', '[Root]', 'New Cluster', 'Move Object', 'Set Tiled Background', and 'Viewport'. On the right, a 'Switch0' configuration window is open, showing the 'Config' tab with 'Global Settings' for 'Switch0'. Below this, an 'Open' file dialog is displayed, showing a list of files in the 'Serveur TFTP Solaris' directory, including 'abraracourcix-config.txt' and 'agecanonix-config.txt'. The 'Fichiers de type' is set to 'Config Files (*.txt)'. A red-bordered text box in the lower-left corner contains the text: 'Récupérez la configuration d'un équipement réel à partir d'une sauvegarde sur serveur TFTP'. The bottom status bar shows '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 4.1 interface. The main workspace shows a network topology with a PC-PT PC0 connected to a 2950T-24 Switch0, which is in turn connected to a 621XM Router0. The top menu bar includes options like Logical, [Root], New Cluster, Move Object, Set Tiled Background, and Viewport. On the right, there is a toolbar with various icons for navigation and editing.

Two configuration windows are open. The first window, titled 'Switch0', shows the 'Config' tab with a tree view on the left containing GLOBAL, Settings, SWITCH, VLAN Database, and INTERFACE. The INTERFACE section is expanded, showing FastEthernet0/1 through FastEthernet0/7. The right pane shows 'Global Settings' with fields for Display Name (Switch0) and Hostname (Switch), and buttons for NVRAM (Erase, Save), Startup Config (Load..., Export...), and Running Config (Merge..., Export...). The second window, titled 'Save As', is open over the first. It shows the file save dialog with 'Enregistrer dans' set to 'Configuration Packet Tracer'. The 'Nom du fichier' field contains 'Switch0_running-config.txt' and the 'Type' is set to 'Config Files (*.txt)'. Buttons for 'Enregistrer' and 'Annuler' are at the bottom right.

Sauvegardez une configuration de Packet Tracer en fichier texte

Time: 00:21:19 Power Cycle Devices Realtime

Contrôle de la connectivité



Contrôle de la connectivité

Packet Tracer 4.11 by Cisco Systems, Inc. - E:/Présentation Paris/Network01.pkt

File Edit Options Help

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

1. Pour générer un Ping, cliquez sur PDU simple

2. Sélectionnez la source

3. Sélectionnez la destination

4. Résultats

Time: 00:14:50 Power Cycle Devices

Scenario 0

New Delete Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time (sec)	Periodic	Num	Edit	De
	Successful	Marketing_2	Engennering_3	ICMP	Blue	0.000	N	0	(edit)	(d)
	Successful	Marketing_2	Engennering_3	ICMP	Blue	0.000	N	1	(edit)	(d)

Mode Simulation



Mode Simulation

Packet Tracer 4.1.1 by Cisco Systems, Inc. - E:/Présentation Paris/Network01.pkt

File Edit Options Help

Logical [Root]

2. Sélectionnez la source

3. Sélectionnez la destination

4. Résultats

1. Passez en mode simulation

Simulation Panel

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	Engennering_3	ICMP	
0.006		Engennering_3	Switch5	ICMP	
0.007		Switch5	Router4	ICMP	
0.008		Router4	Switch5	ICMP	
0.009		Switch5	Switch6	ICMP	
0.010		Switch6	Marketing_2	ICMP	

Simulation Controls

Reset Simulation ☒ Constant Delay Captured to: 1:18.324 s

Play Controls

Back Auto Capture / Play Capture / Forward

Event List Filters

Visible Events: ARP, ICMP

Edit Filters Show All

Time: 00:24:24.252 Power Cycle Devices PLAY CONTROLS: Back Auto Capture / Play Capture / Forward

Routers

Router-PT

Scenario 0

New Delete

Toggle PDU List Window

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

Successful Marketing_2 Engennering_3 ICMP 0.000 N 0 (edit) (d)



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



