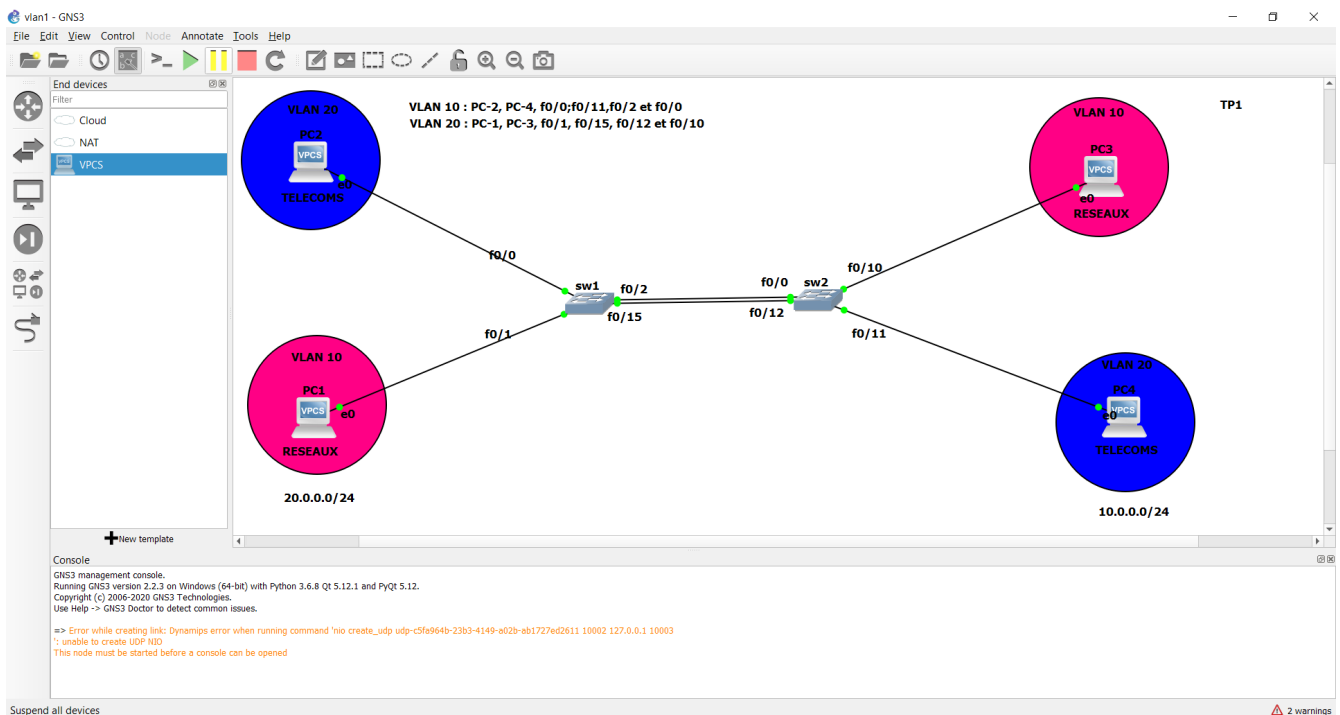


TP : COMMENT CONFIGURER LE VLAN

MISE EN PLACE DE VLAN SOUS GNS3 AVEC DES ROUTEURS CISCO

TP1 :

Schéma du réseau



Configuration des Vlan

La première étape à suivre une fois que le câblage est en place est de créer les deux VLANS sur nos deux switchs. Pour faire simple, nous allons supposer que nous aurons deux VLANS (10 et 20) avec deux liaison et Le reste de la configuration sera détaillée et expliquée plus tard.

On lance le switch1

1- Nous allons ensuite créer les VLANS et les nommer comme la figure:

```
sw1
1 00:00:05.463: %LINK-3-UPDOWN: Interface FastEthernet0/6, changed state to up
1 00:00:05.463: %LINK-3-UPDOWN: Interface FastEthernet0/5, changed state to up
1 00:00:05.463: %LINK-3-UPDOWN: Interface FastEthernet0/4, changed state to up
1 00:00:05.463: %LINK-3-UPDOWN: Interface FastEthernet0/3, changed state to up
1 00:00:06.419: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/15, changed state to down
1 00:00:06.423: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/14, changed state to down
1 00:00:06.427: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/13, changed state to down
1 00:00:06.435: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/12, changed state to down
1 00:00:06.439: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/11, changed state to down
1 00:00:06.443: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/10, changed state to down
1 00:00:06.447: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/9, changed state to down
1 00:00:06.451: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/8, changed state to down
1 00:00:06.455: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/7, changed state to down
1 00:00:06.459: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/6, changed state to down

sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#

sw1#vlan database
sw1(vlan)#vlan 20 name telecoms
VLAN 20 added:
    Name: telecoms
sw1(vlan)#vlan 10 name reseauX
VLAN 10 added:
    Name: reseauX
sw1(vlan)#apply
APPLY completed.
sw1(vlan)#exit
APPLY completed.
Exiting....
sw1#
```

on va faire **show vlan-switch** pour voir les deux vlans TELECOMS et RESEAUX qu'on vient de créer :

```
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#show vlan-switch

VLAN Name                Status    Ports
-----
1    default                active    Fa0/0, Fa0/1, Fa0/2, Fa0/3
                                           Fa0/4, Fa0/5, Fa0/6, Fa0/7
                                           Fa0/8, Fa0/9, Fa0/10, Fa0/11
                                           Fa0/12, Fa0/13, Fa0/14, Fa0/15
                                           Fa1/0, Fa1/1, Fa1/2, Fa1/3
                                           Fa1/4, Fa1/5, Fa1/6, Fa1/7
                                           Fa1/8, Fa1/9, Fa1/10, Fa1/11
                                           Fa1/12, Fa1/13, Fa1/14, Fa1/15

10   reseaux                 active
20   telecoms               active
1002 fddi-default           active
1003 token-ring-default    active
1004 fddinet-default       active
1005 trnet-default          active

VLAN Type  SAID      MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
-----
1    enet  1000001  1500  -     -     -     -   -       1002  1003
10   enet  100010  1500  -     -     -     -   -       0      0
20   enet  100020  1500  -     -     -     -   -       0      0
--More--
```

passons a la configuration globale (switch1) pour préciser les interfaces.

On fait **conf t** :

```
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#swi
sw1(config-if)#switchport mode acc
sw1(config-if)#switchport mode access
sw1(config-if)#switchport access vlan 20
sw1(config-if)#
```


on fait show **vlan-switch** pour voir les **vlan**s y compris les interfaces qu'on a donné

```
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#shw
sw1#show vlan-
sw1#show vlan-s
sw1#sho
sw1#show vl
sw1#show vlan-
sw1#show vlan-sw
sw1#show vlan-switch
```

VLAN	Name	Status	Ports
1	default	active	Fa0/3, Fa0/4, Fa0/5, Fa0/6 Fa0/7, Fa0/8, Fa0/9, Fa0/10 Fa0/11, Fa0/12, Fa0/13, Fa0/14 Fa1/0, Fa1/1, Fa1/2, Fa1/3 Fa1/4, Fa1/5, Fa1/6, Fa1/7 Fa1/8, Fa1/9, Fa1/10, Fa1/11 Fa1/12, Fa1/13, Fa1/14, Fa1/15
10	reseaux	active	Fa0/1, Fa0/15
20	telecoms	active	Fa0/0, Fa0/2
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	1002	1003
10	enet	100010	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	1	1003

```
--More--
```

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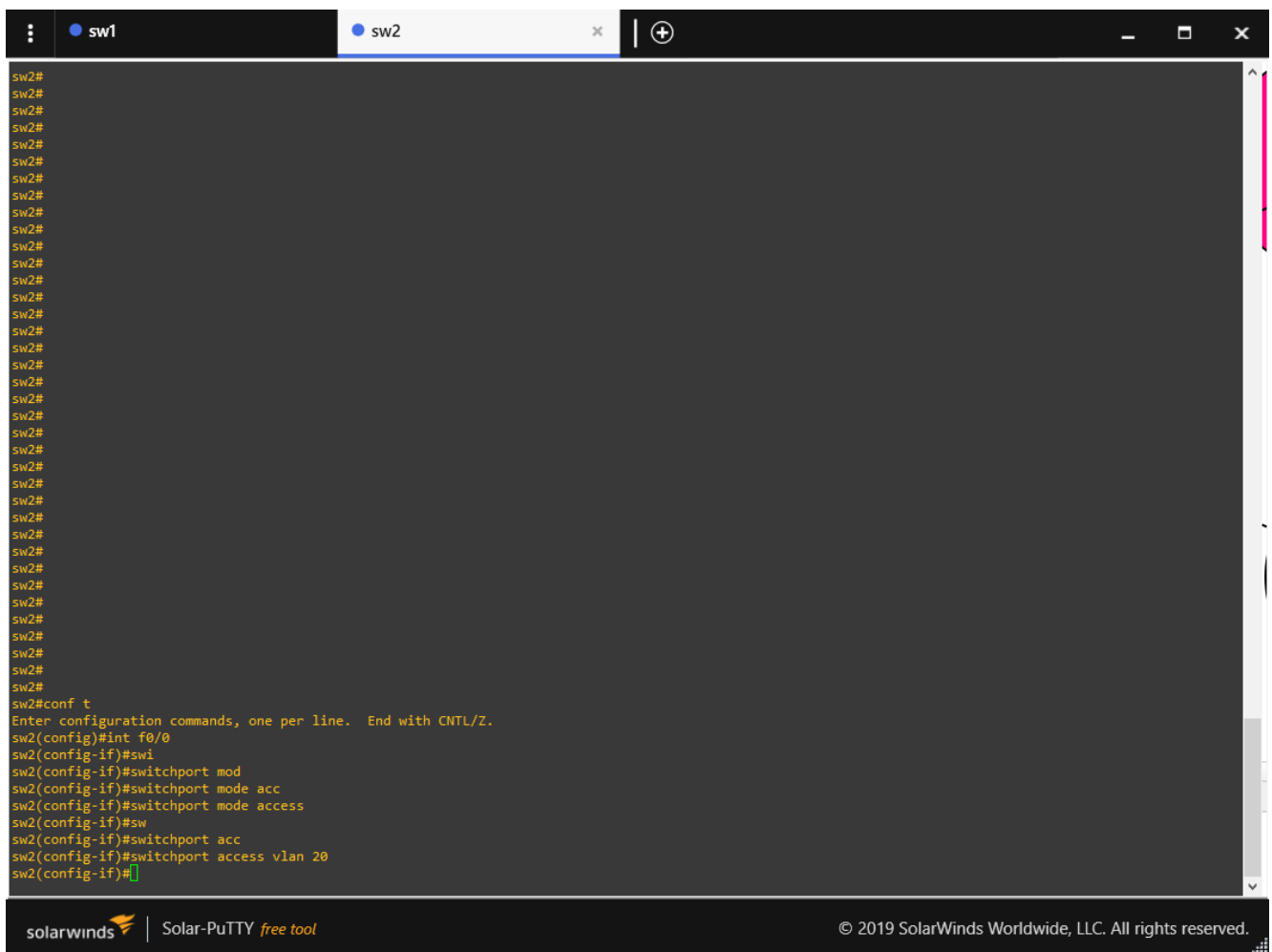
on lance le switch2 pour sa configuration :



```
sw1 sw2
*Mar 1 00:00:05.591: %LINK-3-UPDOWN: Interface FastEthernet0/3, changed state t
o up
*Mar 1 00:00:05.595: %LINK-3-UPDOWN: Interface FastEthernet0/2, changed state t
o up
*Mar 1 00:00:05.595: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state t
o up
*Mar 1 00:00:06.503: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et1/15, changed state to down
*Mar 1 00:00:06.507: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et1/14, changed state to down
*Mar 1 00:00:06.511: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et1/13, changed state to down
*Mar 1 00:00:06.515: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et1/12, changed state to down
*Mar 1 00:00:06.523: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et1/11, changed state to down
*Mar 1 00:00:06.527: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et1/10, changed state to down
*Mar 1 00:00:06.531: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et1/9, changed state to down
*Mar 1 00:00:06.535: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et1/8, changed state to down
*Mar 1 00:00:06.539: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et1/7, changed state to down
*Mar 1 00:00:06.543: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et1/6, changed state to down
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#vlan
sw2#vlan data
sw2#vlan database
sw2(vlan)#
sw2(vlan)#vlan 20 name telecoms
VLAN 20 added:
    Name: telecoms
sw2(vlan)#vlan 10 name reseaux
VLAN 10 added:
    Name: reseaux
sw2(vlan)#appl
sw2(vlan)#apply
APPLY completed.
sw2(vlan)#exit
APPLY completed.
Exiting....
sw2#
```

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si on fait show **vlan-switch** on a pas les interfaces donc il faut passer au mode de configuration pour le faire :




```
sw1
sw2
sw2(config)#exit
sw2#
*Mar 1 00:29:27.035: %SYS-5-CONFIG_I: Configured from console by console
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#sh
sw2#show vl
sw2#show vlan-
sw2#show vlan-s
sw2#show vlan-switch
```

VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/13, Fa0/14, Fa0/15 Fa1/0, Fa1/1, Fa1/2, Fa1/3 Fa1/4, Fa1/5, Fa1/6, Fa1/7 Fa1/8, Fa1/9, Fa1/10, Fa1/11 Fa1/12, Fa1/13, Fa1/14, Fa1/15
10	reseaux	active	Fa0/10, Fa0/12
20	telecoms	active	Fa0/0, Fa0/11
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	1002	1003
10	enet	100010	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	1	1003

```
--More--
```

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on fait toujours la commande : show vlan-switch on constate que les interfaces sont la.

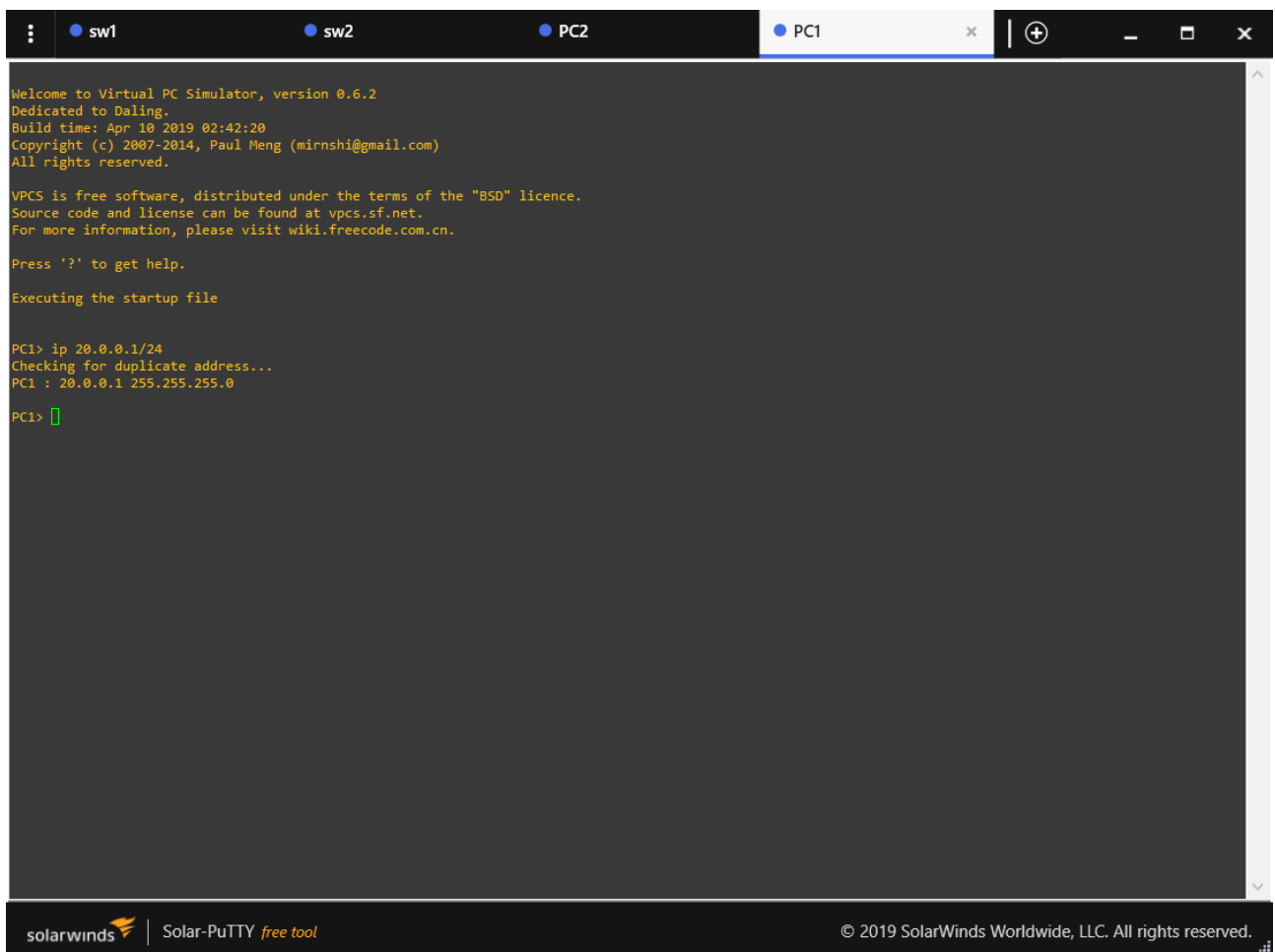
```
sw2(config)#exit
sw2#
*Mar  1 00:29:27.035: %SYS-5-CONFIG_I: Configured from console by console
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#sh
sw2#show vl
sw2#show vlan-
sw2#show vlan-s
sw2#show vlan-switch

VLAN Name                Status    Ports
-----
1    default                active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                           Fa0/5, Fa0/6, Fa0/7, Fa0/8
                                           Fa0/9, Fa0/13, Fa0/14, Fa0/15
                                           Fa1/0, Fa1/1, Fa1/2, Fa1/3
                                           Fa1/4, Fa1/5, Fa1/6, Fa1/7
                                           Fa1/8, Fa1/9, Fa1/10, Fa1/11
                                           Fa1/12, Fa1/13, Fa1/14, Fa1/15
10   reseaux                 active    Fa0/10, Fa0/12
20   telecoms               active    Fa0/0, Fa0/11
1002 fddi-default          active
1003 token-ring-default      active
1004 fddinet-default        active
1005 trnet-default          active

VLAN Type  SAID      MTU   Parent RingNo BridgeNo Stp  BrgdMode Trans1 Trans2
-----
1    enet   100001    1500  -     -     -     -     -     1002   1003
10   enet   100010    1500  -     -     -     -     -     0      0
20   enet   100020    1500  -     -     -     -     -     0      0
1002 fddi   101002    1500  -     -     -     -     -     1     1003
--More--
```

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On va donner les adresses ip aux PC



The image shows a screenshot of the Virtual PC Simulator application. The top bar contains four tabs: 'sw1', 'sw2', 'PC2', and 'PC1'. The 'PC1' tab is currently selected. The main window displays the terminal output for PC1. The text in the terminal is as follows:

```
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.

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Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC1> ip 20.0.0.1/24
Checking for duplicate address...
PC1 : 20.0.0.1 255.255.255.0

PC1> 
```

The bottom of the window features a footer with the SolarWinds logo, the text 'Solar-PuTTY free tool', and a copyright notice: '© 2019 SolarWinds Worldwide, LLC. All rights reserved.'

on constate que le pc-1 a une adresse 20.0.0.1/24 (vlan 20)

```
sw1 sw2 PC2
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
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For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC2>
PC2>
PC2> ip 10.0.0.1/24
Checking for duplicate address...
PC1 : 10.0.0.1 255.255.255.0

PC2> 
```

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pc-2 a une adresse de 10.0.0.1/24 (vlan 10)

The screenshot shows a SolarWinds Solar-PuTTY terminal window with a dark background. The top bar contains tabs for 'sw1', 'sw2', 'PC2', 'PC1', 'PC3' (selected), and 'PC3'. The terminal output is as follows:

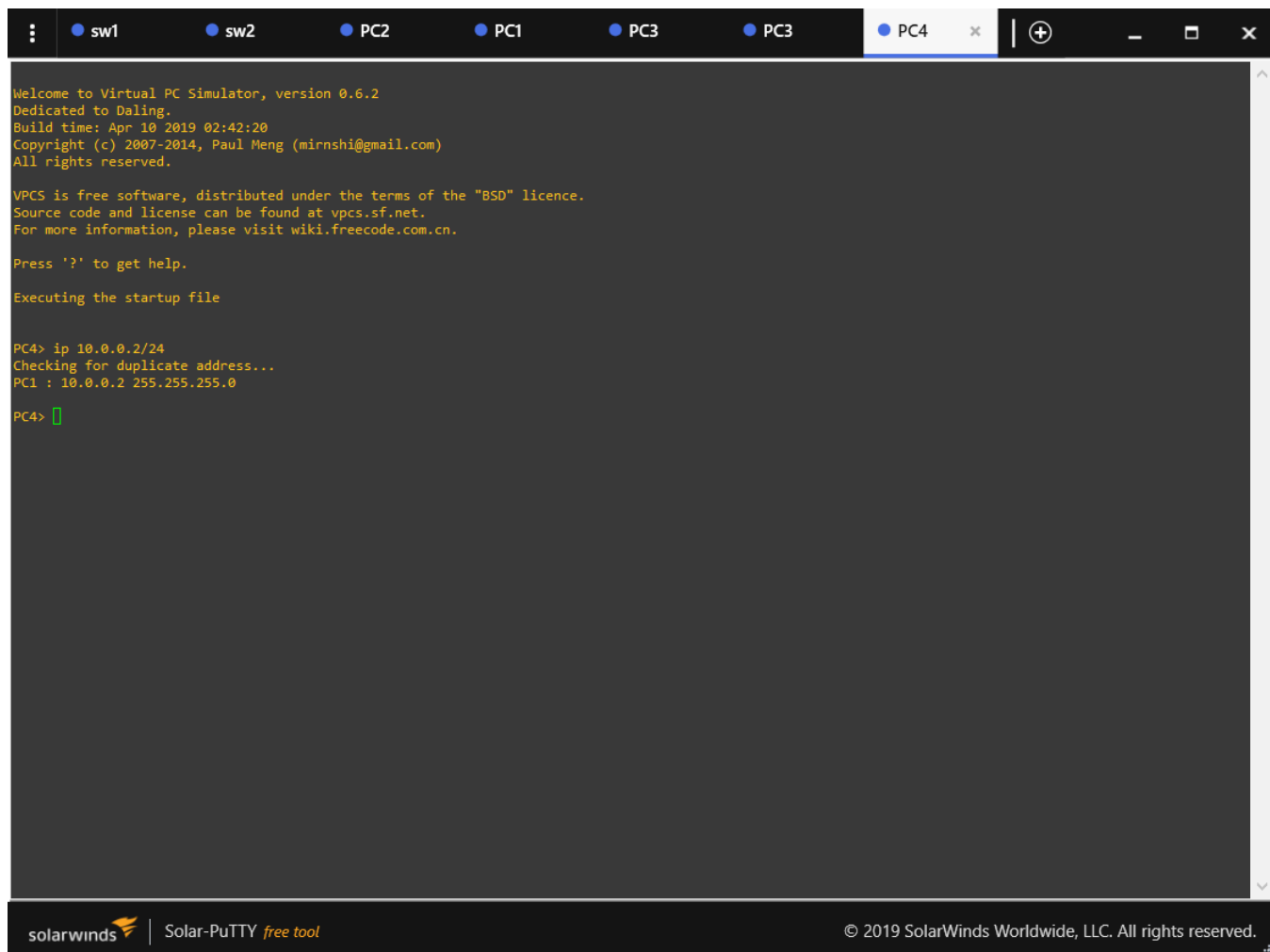
```
ip 20.0.0.2/24
Invalid options

PC3> ip 20.0.0.2/24
Checking for duplicate address...
PC1 : 20.0.0.2 255.255.255.0

PC3> c
```

The bottom status bar includes the SolarWinds logo, the text 'Solar-PuTTY free tool', and the copyright notice '© 2019 SolarWinds Worldwide, LLC. All rights reserved.'

pc-3 a une adresse de 20.0.0.2/24 (vlan 20)



```

Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
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Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

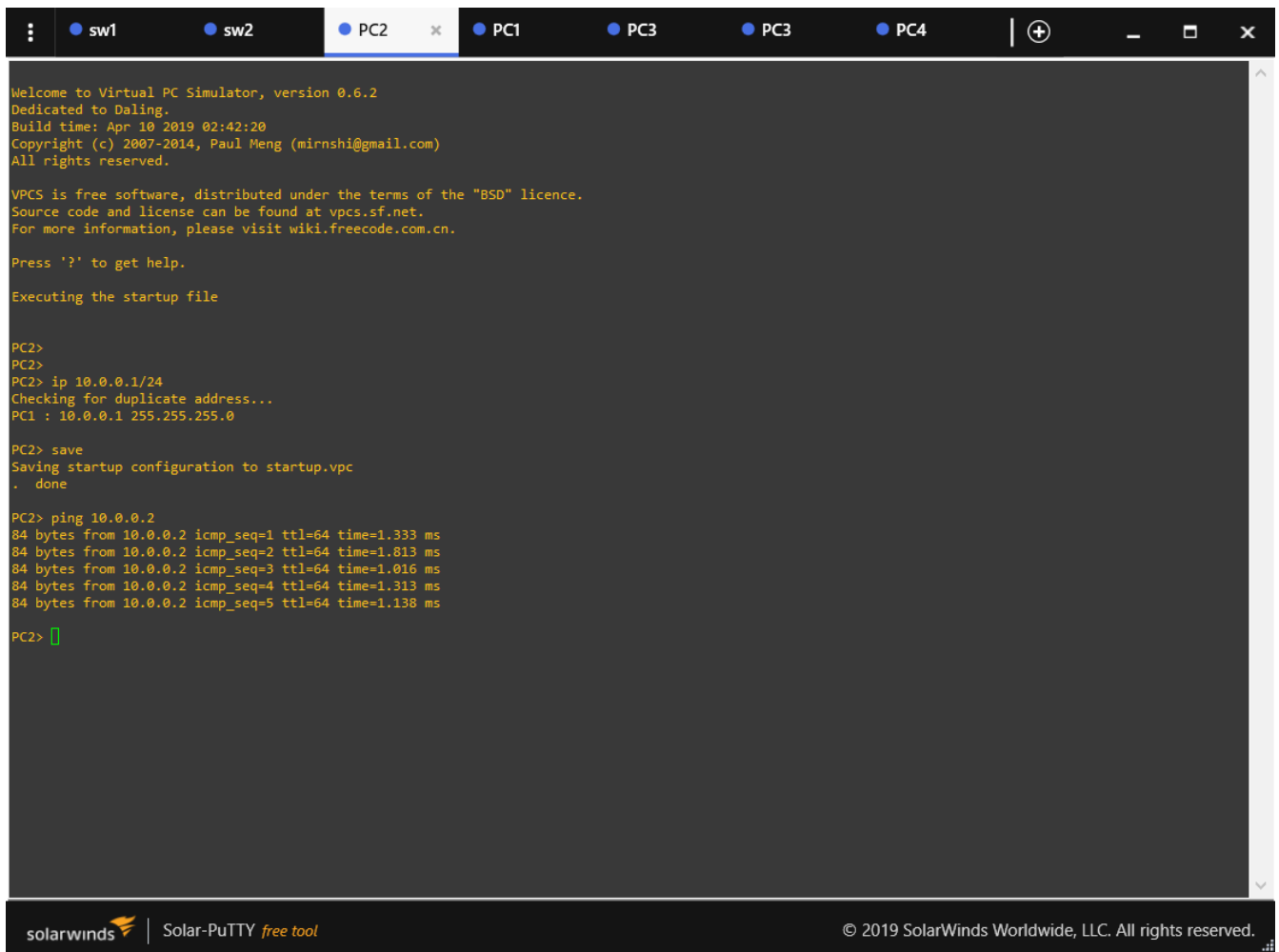
PC4> ip 10.0.0.2/24
Checking for duplicate address...
PC1 : 10.0.0.2 255.255.255.0

PC4> 
```

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pc-4 a une adresse de 10.0.0.2/24

on constate que les deux pc qui se trouvent dans le même vlan.ils peuvent se communiquer par exemple le pc-1 va faire un ping sur le pc-4 voir la figure :



```

Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
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For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC2>
PC2>
PC2> ip 10.0.0.1/24
Checking for duplicate address...
PC1 : 10.0.0.1 255.255.255.0

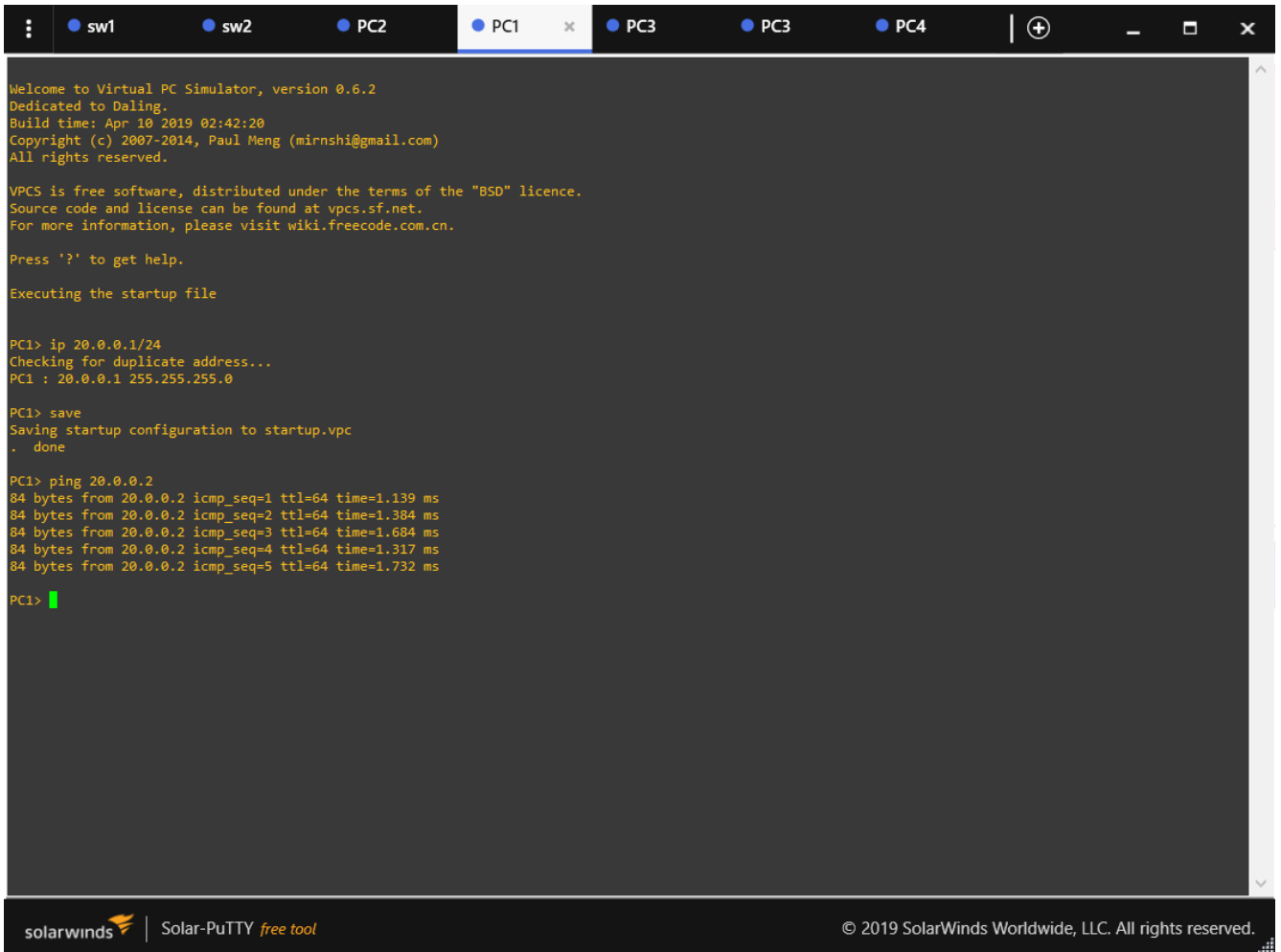
PC2> save
Saving startup configuration to startup.vpc
. done

PC2> ping 10.0.0.2
84 bytes from 10.0.0.2 icmp_seq=1 ttl=64 time=1.333 ms
84 bytes from 10.0.0.2 icmp_seq=2 ttl=64 time=1.813 ms
84 bytes from 10.0.0.2 icmp_seq=3 ttl=64 time=1.016 ms
84 bytes from 10.0.0.2 icmp_seq=4 ttl=64 time=1.313 ms
84 bytes from 10.0.0.2 icmp_seq=5 ttl=64 time=1.138 ms

PC2> []
```

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idem pour les PC-1 et PC-3



The screenshot shows a SolarWinds Solar-PuTTY terminal window with a dark background and yellow text. The window has a tab bar at the top with tabs for 'sw1', 'sw2', 'PC2', 'PC1' (selected), 'PC3', 'PC3', and 'PC4'. The terminal output shows the following commands and results:

```
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.

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Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC1> ip 20.0.0.1/24
Checking for duplicate address...
PC1 : 20.0.0.1 255.255.255.0

PC1> save
Saving startup configuration to startup.vpc
. done

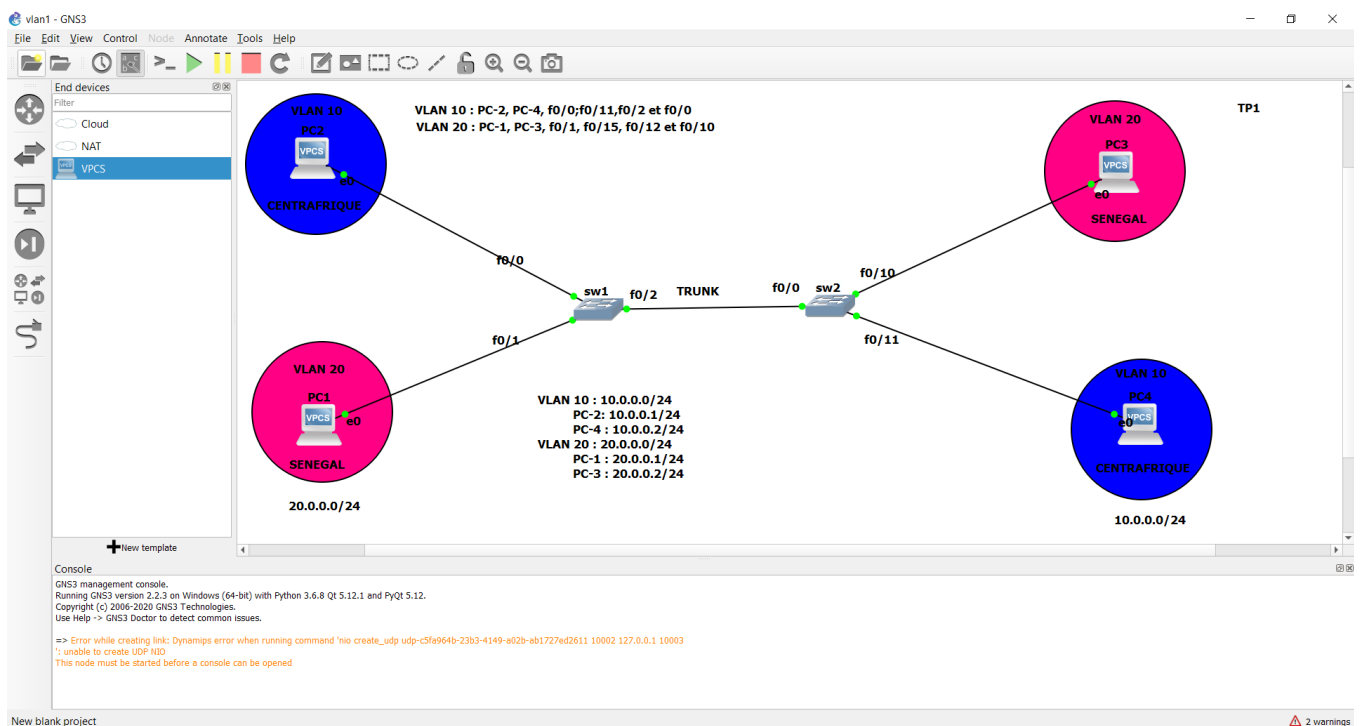
PC1> ping 20.0.0.2
84 bytes from 20.0.0.2 icmp_seq=1 ttl=64 time=1.139 ms
84 bytes from 20.0.0.2 icmp_seq=2 ttl=64 time=1.384 ms
84 bytes from 20.0.0.2 icmp_seq=3 ttl=64 time=1.684 ms
84 bytes from 20.0.0.2 icmp_seq=4 ttl=64 time=1.317 ms
84 bytes from 20.0.0.2 icmp_seq=5 ttl=64 time=1.732 ms

PC1>
```

The bottom of the window features a footer with the SolarWinds logo, the text 'Solar-PuTTY free tool', and the copyright notice '© 2019 SolarWinds Worldwide, LLC. All rights reserved.'

TP-2 :

La première étape à suivre une fois que le câblage est en place est de créer les deux VLANS sur nos deux switches. Pour faire simple, nous allons supposer que nous aurons deux VLANS (10 et 20) avec une liaison par port trunk entre le switch 1 et le switch 2. Le reste de la configuration sera détaillée et expliquée plus tard.



sw1

sw2

PC2

PC1

PC3

PC3

PC4

sw1

sw1 x

+

-

□

×

```

sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#
sw1#vla
sw1#vlan dat
sw1#vlan database
sw1(vlan)#vlan 10 name centrafrigue
VLAN 10 modified:
  Name: centrafrigue
sw1(vlan)#apply
APPLY completed.
sw1(vlan)#exit
APPLY completed.
Exiting....
sw1#show vlan-s
sw1#show vlan-switch

```

VLAN	Name	Status	Ports
1	default	active	Fa0/0, Fa0/1, Fa0/2, Fa0/3 Fa0/4, Fa0/5, Fa0/6, Fa0/7 Fa0/8, Fa0/9, Fa0/10, Fa0/11 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa1/0, Fa1/1, Fa1/2, Fa1/3 Fa1/4, Fa1/5, Fa1/6, Fa1/7 Fa1/8, Fa1/9, Fa1/10, Fa1/11 Fa1/12, Fa1/13, Fa1/14, Fa1/15
10	centrafrigue	active	
20	telecoms	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	1002	1003
10	enet	100010	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0

```

--More--

```

solarwinds

Solar-PuTTY *free tool*

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sw1

sw2

PC2

PC1

PC3

PC3

PC4

sw1

sw1 x

+

-

□

×

```
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#
sw1(config)#int f0/0
sw1(config-if)#sw
sw1(config-if)#switchport mod
sw1(config-if)#switchport mode acc
sw1(config-if)#switchport mode access
sw1(config-if)#sw
sw1(config-if)#switchport acc
sw1(config-if)#switchport access vlan 10
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#int f0/1
sw1(config-if)#sw
sw1(config-if)#switchport mode acc
sw1(config-if)#switchport mode access
sw1(config-if)#sw
sw1(config-if)#switchport acc
sw1(config-if)#switchport access vlan 20
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#int f0/15
sw1(config-if)#sw
sw1(config-if)#switchport mode trun
sw1(config-if)#switchport mode trunk
sw1(config-if)#
```

solarwinds

Solar-PuTTY free tool

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sw1sw2PC2PC1PC3PC3PC4sw1sw1sw2 x

```
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#vla
sw2#vlan data
sw2#vlan database
sw2(vlan)#vlan 10 name centrafrigue
VLAN 10 modified:
    Name: centrafrigue
sw2(vlan)#vlan 20 name senegal
VLAN 20 modified:
    Name: senegal
sw2(vlan)#apply
APPLY completed.
sw2(vlan)#exit
APPLY completed.
Exiting....
sw2#
sw2#
sw2#show vlan-s
sw2#show vlan-switch
```

VLAN	Name	Status	Ports
1	default	active	Fa0/0, Fa0/1, Fa0/2, Fa0/3 Fa0/4, Fa0/5, Fa0/6, Fa0/7 Fa0/8, Fa0/9, Fa0/10, Fa0/11 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa1/0, Fa1/1, Fa1/2, Fa1/3 Fa1/4, Fa1/5, Fa1/6, Fa1/7 Fa1/8, Fa1/9, Fa1/10, Fa1/11 Fa1/12, Fa1/13, Fa1/14, Fa1/15
10	centrafrigue	active	
20	senegal	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	1002	1003
10	enet	100010	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0

--More--

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```
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
sw2(config)#int f0/10
sw2(config-if)#sw
sw2(config-if)#switchport mode access
sw2(config-if)#sw
sw2(config-if)#switchport acc
sw2(config-if)#switchport access vlan 20
sw2(config-if)#
sw2(config-if)#
sw2(config-if)#int f0/11
sw2(config-if)#sw
sw2(config-if)#switchport mode access
sw2(config-if)#sw
sw2(config-if)#switchport ac
sw2(config-if)#switchport access vlan 10
sw2(config-if)#
sw2(config-if)#
sw2(config-if)#int f0/12
sw2(config-if)#sw
sw2(config-if)#switchport mode ac
sw2(config-if)#switchport mode access
sw2(config-if)#switchport mode trunk
sw2(config-if)#exit
sw2(config)#exit
sw2#
*Mar  1 00:28:54.155: %SYS-5-CONFIG_I: Configured from console by console
sw2#
sw2#show inte
sw2#
```

```
sw1 sw2 PC2 PC1 PC3 PC3 PC4 sw1 sw1 sw2 x
```

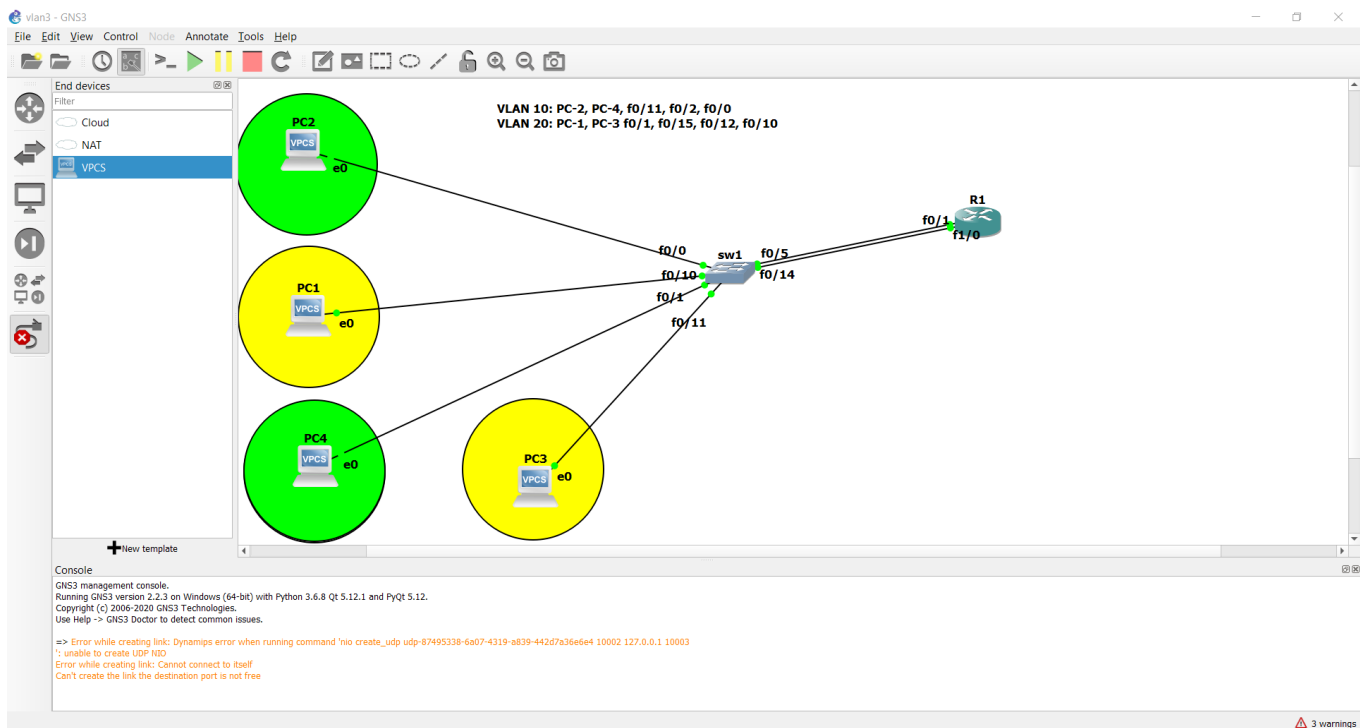
```
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#
sw2#show int
sw2#show interfaces f0/12
FastEthernet0/12 is up, line protocol is down
  Hardware is Fast Ethernet, address is cc02.c804.f00c (bia cc02.c804.f00c)
  MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Auto-duplex, Auto-speed
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input never, output never, output hang never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
    0 packets input, 0 bytes, 0 no buffer
    Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
    0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
    0 input packets with dribble condition detected
    0 packets output, 0 bytes, 0 underruns
    0 output errors, 0 collisions, 2 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier
--More--
```

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TP-3 :

COMMENT PEUT ON FAIRE POUR COMMUNIQUER DEUX VLANS DIFFERENTS :

C'EST ÇA LE rôle DE CE TP :



1- on lance le switch


```

swl#
swl#
swl#
swl#
swl#
swl#
swl#
swl#
swl#
swl#vlan data
swl#vlan database
swl(vlan)#vlan 10 name bangui
VLAN 10 added:
    Name: bangui
swl(vlan)#vlan 20 name dakar
VLAN 20 added:
    Name: dakar
swl(vlan)#apply
APPLY completed.
swl(vlan)#exit
APPLY completed.
Exiting...
swl#show vlan-s
swl#show vlan-switch

VLAN Name                Status    Ports
-----
1    default                active    Fa0/0, Fa0/1, Fa0/2, Fa0/3
                                           Fa0/4, Fa0/5, Fa0/6, Fa0/7
                                           Fa0/8, Fa0/9, Fa0/10, Fa0/11
                                           Fa0/12, Fa0/13, Fa0/14, Fa0/15
                                           Fa1/0, Fa1/1, Fa1/2, Fa1/3
                                           Fa1/4, Fa1/5, Fa1/6, Fa1/7
                                           Fa1/8, Fa1/9, Fa1/10, Fa1/11
                                           Fa1/12, Fa1/13, Fa1/14, Fa1/15
10   bangui                  active
20   dakar                   active
1002 fddi-default             active
1003 token-ring-default      active
1004 fddinet-default        active
1005 trnet-default           active

VLAN Type  SAID      MTU    Parent RingNo BridgeNo Stp    BrdMode Trans1 Trans2
-----
1    enet    100001    1500   -      -      -      -      -      1002    1003
10   enet    100010    1500   -      -      -      -      -      0       0
20   enet    100020    1500   -      -      -      -      -      0       0
--More--

```

on va intégrer les ports aux vlans

```
sw1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
sw1(config)#int f0/1
sw1(config-if)#sw
sw1(config-if)#switchport mo
sw1(config-if)#switchport mode a
sw1(config-if)#switchport mode access
sw1(config-if)#s
sw1(config-if)#sw
sw1(config-if)#switchport a
sw1(config-if)#switchport access vlan 10
sw1(config-if)#
sw1(config-if)#int f0/10
sw1(config-if)#sw
sw1(config-if)#switchport mode access
sw1(config-if)#sw
sw1(config-if)#switchport a
sw1(config-if)#switchport access vlan 20
sw1(config-if)#int f0/11
sw1(config-if)#sw
sw1(config-if)#switchport mode access
sw1(config-if)#sw
sw1(config-if)#switchport ac
sw1(config-if)#switchport access vlan 20
sw1(config-if)#exit
sw1(config)#exit
sw1#
*Mar  1 04:26:55.258: %SYS-5-CONFIG_I: Configured from console by console
sw1#show vlan-s
sw1#show vlan-switch
```

VLAN Name	Status	Ports
1 default	active	Fa0/2, Fa0/3, Fa0/4, Fa0/5 Fa0/6, Fa0/7, Fa0/8, Fa0/9 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa1/0, Fa1/1, Fa1/2, Fa1/3 Fa1/4, Fa1/5, Fa1/6, Fa1/7 Fa1/8, Fa1/9, Fa1/10, Fa1/11 Fa1/12, Fa1/13, Fa1/14, Fa1/15
10 bangui	active	Fa0/0, Fa0/1
20 dakar	active	Fa0/10, Fa0/11
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

```
VLAN Type SAID      MTU    Parent RingNo BridgeNo Stp    BrdgMode Trans1 Trans2
```

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on va donner les adresses aux pc

pc-1:20.0.0.1/24



The image shows a terminal window titled "Solar-PuTTY" with a tab for "PC1". The terminal output displays the Virtual PC Simulator version 0.6.2, build time, and copyright information. It then shows the execution of the startup file and the IP configuration command "ip 20.0.0.1/24". The output of the command shows the IP address 20.0.0.1 and the subnet mask 255.255.255.0.

```
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.

VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

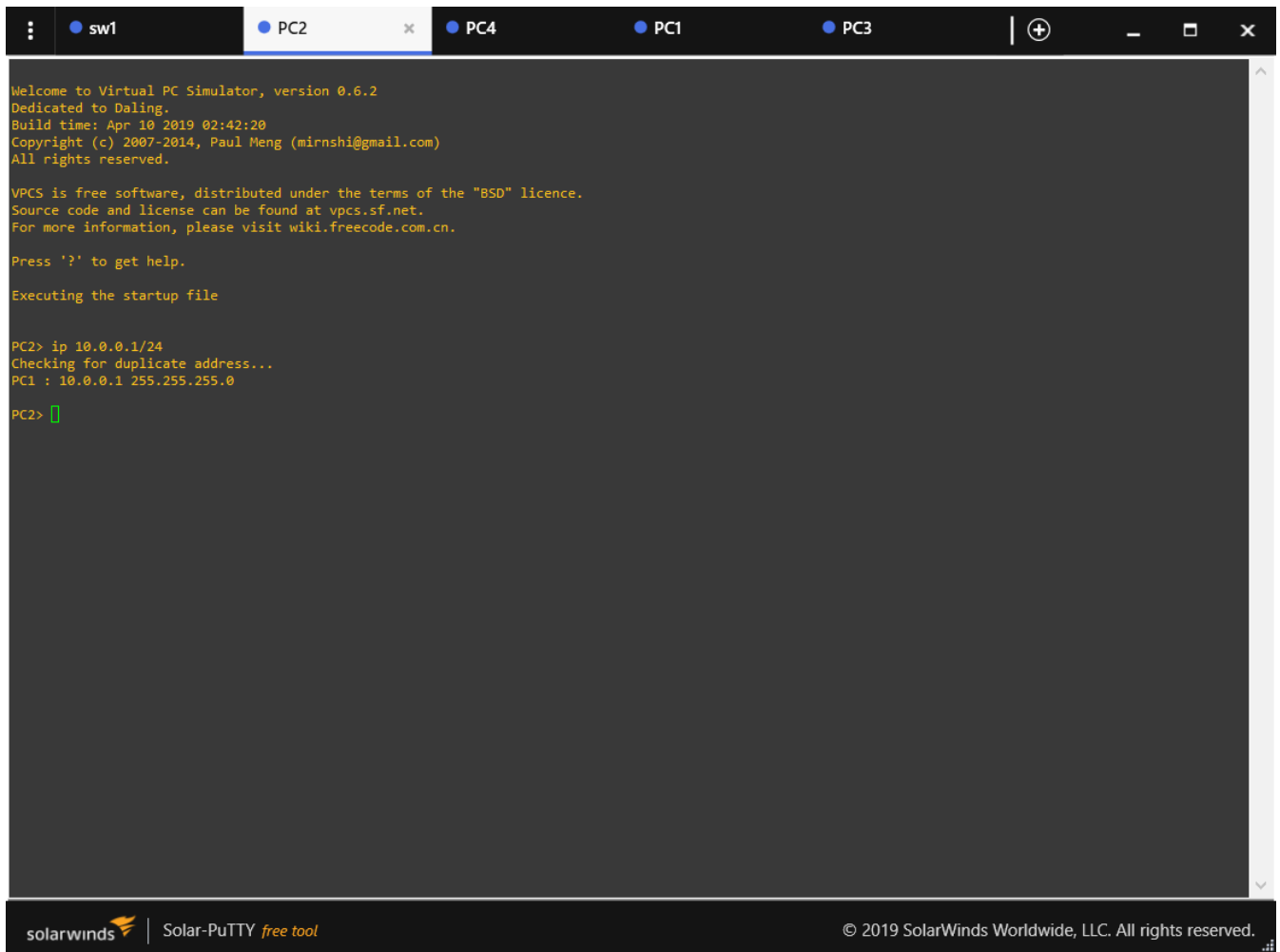
Executing the startup file

PC1> ip 20.0.0.1/24
Checking for duplicate address...
PC1 : 20.0.0.1 255.255.255.0

PC1> 
```

solarwinds | Solar-PuTTY *free tool* © 2019 SolarWinds Worldwide, LLC. All rights reserved.

pc-2 10.0.0.0.1/24



The screenshot shows a Solar-PuTTY terminal window with a dark background and yellow text. The window has a title bar with tabs for 'sw1', 'PC2', 'PC4', 'PC1', and 'PC3'. The 'PC2' tab is active. The terminal output shows the VPCS welcome message, version 0.6.2, and build time. It then displays the IP configuration for PC2 (10.0.0.1/24) and PC1 (10.0.0.1 255.255.255.0). The prompt 'PC2>' is visible at the bottom of the terminal area.

```
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
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For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

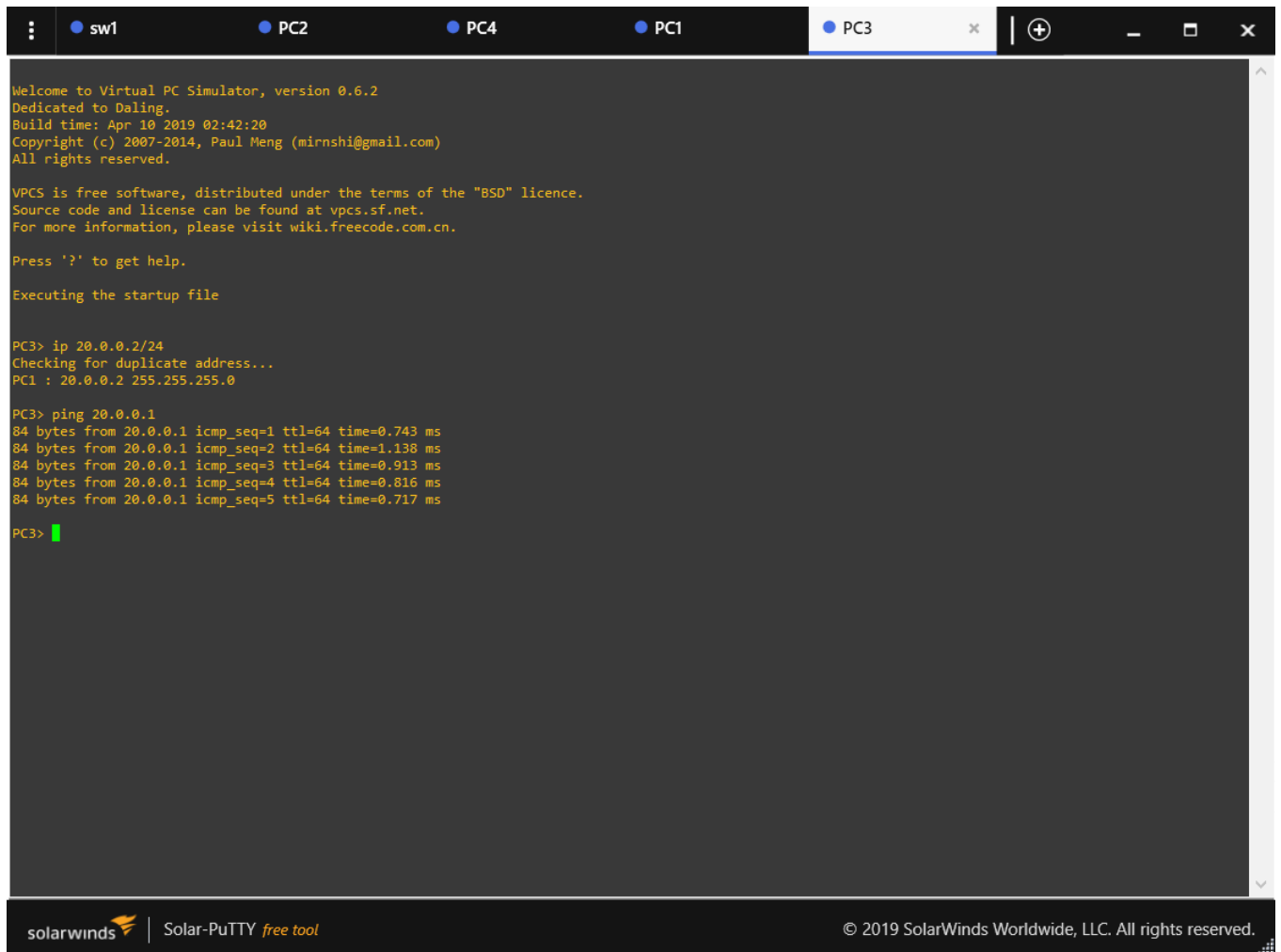
Executing the startup file

PC2> ip 10.0.0.1/24
Checking for duplicate address...
PC1 : 10.0.0.1 255.255.255.0

PC2> 
```

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pc-3 va faire un ping sur le pc-1 (ça marche well)



The screenshot shows a SolarWinds Solar-PuTTY terminal window with a dark background. The title bar at the top contains tabs for 'sw1', 'PC2', 'PC4', 'PC1', and 'PC3', with 'PC3' being the active tab. The terminal displays the following text:

```
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
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All rights reserved.

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For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC3> ip 20.0.0.2/24
Checking for duplicate address...
PC1 : 20.0.0.2 255.255.255.0

PC3> ping 20.0.0.1
84 bytes from 20.0.0.1 icmp_seq=1 ttl=64 time=0.743 ms
84 bytes from 20.0.0.1 icmp_seq=2 ttl=64 time=1.138 ms
84 bytes from 20.0.0.1 icmp_seq=3 ttl=64 time=0.913 ms
84 bytes from 20.0.0.1 icmp_seq=4 ttl=64 time=0.816 ms
84 bytes from 20.0.0.1 icmp_seq=5 ttl=64 time=0.717 ms

PC3> 
```

The bottom of the window features a status bar with the SolarWinds logo, the text 'Solar-PuTTY free tool', and a copyright notice: '© 2019 SolarWinds Worldwide, LLC. All rights reserved.'

pc-4 a une adresse de 10.0.0.2/24



The image shows a SolarWinds Solar-PuTTY terminal window with a dark theme. The title bar at the top contains tabs for 'sw1', 'PC2', 'PC4', 'PC1', and 'PC3', with 'PC4' currently selected. The terminal displays the following text:

```
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
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For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

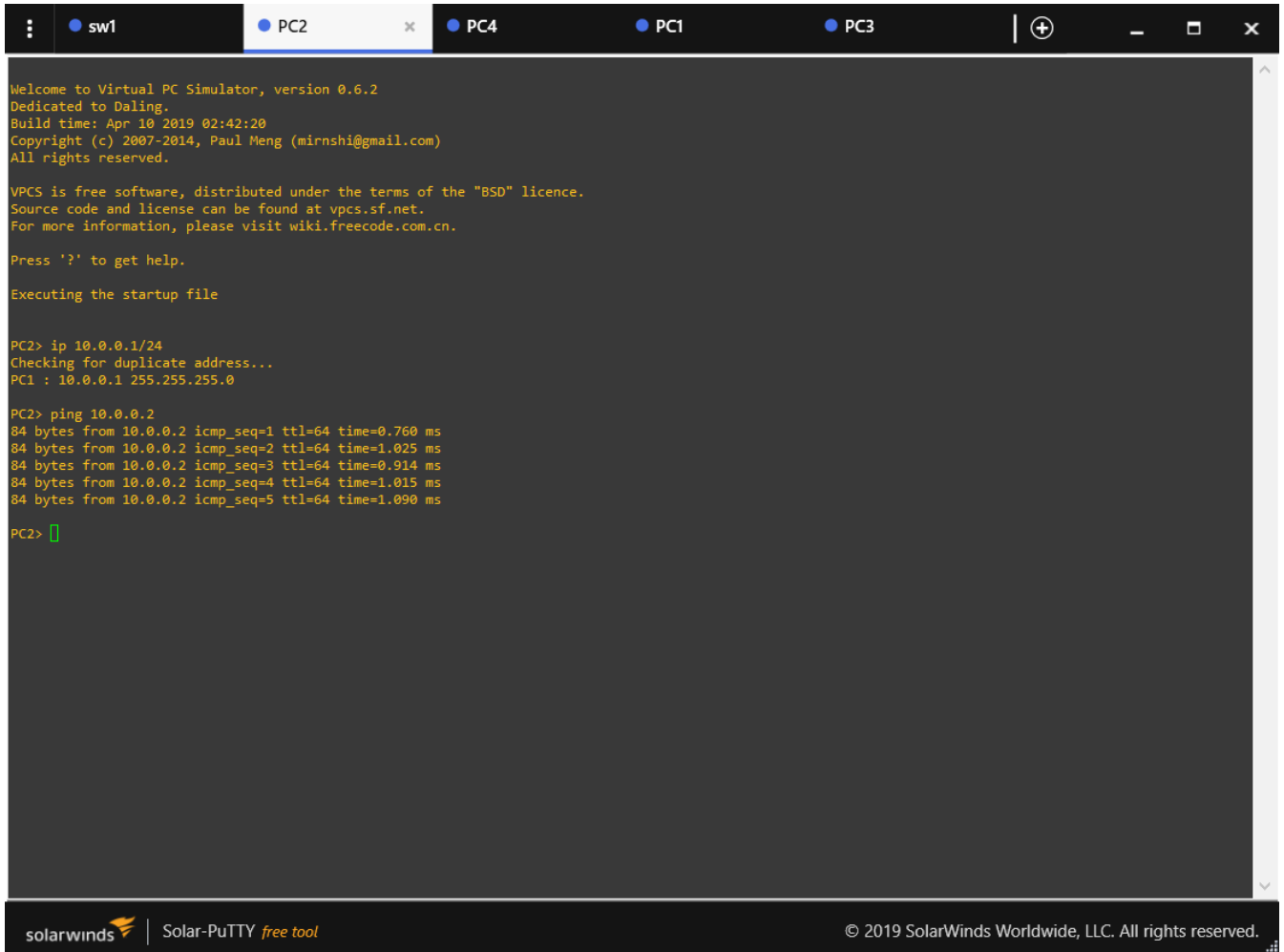
Executing the startup file

PC4> ip 10.0.0.2/24
Checking for duplicate address...
PC1 : 10.0.0.2 255.255.255.0

PC4> █
```

The bottom status bar of the application shows the 'solarwinds' logo, the text 'Solar-PuTTY free tool', and the copyright notice '© 2019 SolarWinds Worldwide, LLC. All rights reserved.'.

pc-2 va faire un ping sur le pc-4 (cool)



```
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
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Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC2> ip 10.0.0.1/24
Checking for duplicate address...
PC1 : 10.0.0.1 255.255.255.0

PC2> ping 10.0.0.2
84 bytes from 10.0.0.2 icmp_seq=1 ttl=64 time=0.760 ms
84 bytes from 10.0.0.2 icmp_seq=2 ttl=64 time=1.025 ms
84 bytes from 10.0.0.2 icmp_seq=3 ttl=64 time=0.914 ms
84 bytes from 10.0.0.2 icmp_seq=4 ttl=64 time=1.015 ms
84 bytes from 10.0.0.2 icmp_seq=5 ttl=64 time=1.090 ms

PC2> 
```

et si pc-1 qui se trouve dans le vlan 10 veut communiquer a pc-4 (vlan 20) ça n'a pas marché. donc en conclusion on peut dire que les pc qui se trouvent dans le meme vlans ont le droit de faire la communication.

Pour que deux vlans differents puissent communiquer. regardez la bonne démarche .

1-toujours en mode configuration sur le switch

```
sw1#
sw1#
sw1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
sw1(config)#int f0/5
sw1(config-if)#sw
sw1(config-if)#switchport mode access
sw1(config-if)#sw
sw1(config-if)#switchport access vlan 10
sw1(config-if)#
sw1(config-if)#
sw1(config-if)#int f0/14
sw1(config-if)#sw
sw1(config-if)#switchport mode access
sw1(config-if)#sw
sw1(config-if)#switchport access vlan 20
sw1(config-if)#
*Mar 1 04:47:34.810: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to down
sw1(config-if)#exit
sw1(config)#exit
sw1#
*Mar 1 04:47:44.122: %SYS-5-CONFIG_I: Configured from console by console
sw1#show vlan-s
sw1#show vlan-switch

VLAN Name                Status    Ports
-----
1    default                active    Fa0/2, Fa0/3, Fa0/4, Fa0/6
                                           Fa0/7, Fa0/8, Fa0/9, Fa0/12
                                           Fa0/13, Fa0/15, Fa1/0, Fa1/1
                                           Fa1/2, Fa1/3, Fa1/4, Fa1/5
                                           Fa1/6, Fa1/7, Fa1/8, Fa1/9
                                           Fa1/10, Fa1/11, Fa1/12, Fa1/13
                                           Fa1/14, Fa1/15
10   bangui                 active    Fa0/0, Fa0/1, Fa0/5
20   dakar                  active    Fa0/10, Fa0/11, Fa0/14
1002 fddi-default           active
1003 token-ring-default    active
1004 fddinet-default       active
1005 trnet-default         active

VLAN Type  SAID      MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
-----
1    enet    100001    1500  -     -     -     -     -     1002  1003
10   enet    100010    1500  -     -     -     -     -     0     0
20   enet    100020    1500  -     -     -     -     -     0     0
1002 fddi    101002    1500  -     -     -     -     -     1     1003
--More--
```

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2- on va lancer le router pour la configuration (donner l'adresse ip a nos routeur etc.)

sw1PC2PC4PC1PC3R1

```
*Mar 1 00:00:06.251: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/7, changed state to down
*Mar 1 00:00:06.255: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/6, changed state to down
R1#
R1#
R1#
R1#
R1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#int 0/1
      ^
% Invalid input detected at '^' marker.

R1(config)#int f0/1
R1(config-if)#ip add
R1(config-if)#ip address 10.0.0.254 255.255.255.0

% IP addresses may not be configured on L2 links.

R1(config-if)#no sh
R1(config-if)#no shutdown
R1(config-if)#
R1(config-if)#
R1(config-if)#int f1/0
R1(config-if)#ip add
R1(config-if)#ip address 20.0.0.254 255.255.255.0

% IP addresses may not be configured on L2 links.

R1(config-if)#no sh
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#exit
R1#s
*Mar 1 04:55:44.146: %SYS-5-CONFIG_I: Configured from console by console
R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
        N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
        E1 - OSPF external type 1, E2 - OSPF external type 2
        i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
        ia - IS-IS inter area, * - candidate default, U - per-user static route
        o - ODR, P - periodic downloaded static route

Gateway of last resort is not set

R1#
```

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⋮

● sw1 ● PC2 ● PC4 ● PC1 ● PC3 ● R1 ● PC2 ● R1 ● R1 ● R1 ● R1 ×

+

—

□

×

```
5, changed state to up
*Mar 1 00:00:08.455: %LINK-3-U
PDOWN: Interface FastEthernet1/
4, changed state to up
*Mar 1 00:00:08.463: %LINK-3-U
PDOWN: Interface FastEthernet1/
3, changed state to up
*Mar 1 00:00:08.467: %LINK-3-UPDOWN: Interface FastEthernet1/2, changed state to up
*Mar 1 00:00:08.471: %LINK-3-UPDOWN: Interface FastEthernet1/1, changed state to up
*Mar 1 00:00:08.479: %LINK-3-UPDOWN: Interface FastEthernet1/0, changed state to up
*Mar 1 00:00:09.399: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/15, changed state to down
*Mar 1 00:00:09.403: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/14, changed state to down
*Mar 1 00:00:09.407: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/13, changed state to down
*Mar 1 00:00:09.415: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/12, changed state to down
*Mar 1 00:00:09.419: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/11, changed state to down
*Mar 1 00:00:09.423: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/10, changed state to down
*Mar 1 00:00:09.431: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/9, changed state to down
*Mar 1 00:00:09.435: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/8, changed state to down
*Mar 1 00:00:09.439: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/7, changed state to down
*Mar 1 00:00:09.447: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/6, changed state to down
R1#
R1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#int f0/1
R1(config-if)#ip add
R1(config-if)#ip address 10.0.0.254 255.255.255.0
R1(config-if)#no sh
R1(config-if)#no shutdown
R1(config-if)#
*Mar 1 00:02:16.615: %LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up
*Mar 1 00:02:17.615: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
R1(config-if)#
R1(config-if)#
R1(config-if)#
R1(config-if)#int f0/0
R1(config-if)#ip add
R1(config-if)#ip address 20.0.0.254 255.255.255.0
R1(config-if)#no sh
R1(config-if)#no shutdown
R1(config-if)#ex
*Mar 1 00:02:59.567: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Mar 1 00:03:00.567: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
R1(config-if)#exit
R1(config)#show ip route
^
% Invalid input detected at '^' marker.
R1(config)#
```

solarwinds

Solar-PuTTY *free tool*

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on va donner les passerelles aux pc pour permettre de quitter un vlan vers un autre .



```

Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
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Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC1> ip 20.0.0.1/24
Checking for duplicate address...
PC1 : 20.0.0.1 255.255.255.0

PC1> ip 20.0.0.1/24 20.0.0.254
Checking for duplicate address...
PC1 : 20.0.0.1 255.255.255.0 gateway 20.0.0.254

PC1> █

```

solarwinds | Solar-PuTTY *free tool* © 2019 SolarWinds Worldwide, LLC. All rights reserved.

pc-1 (vlan 20) ping pc2 qui est dans le vlan (10)



The screenshot shows a SolarWinds Solar-PuTTY terminal window. The title bar at the top contains tabs for various network devices: sw1, PC2, PC4, PC x (selected), PC3, R1, PC2, R1, R1, R1, R1. The terminal output is as follows:

```
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.

VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC1> ip 20.0.0.1/24
Checking for duplicate address...
PC1 : 20.0.0.1 255.255.255.0

PC1> ip 20.0.0.1/24 20.0.0.254
Checking for duplicate address...
PC1 : 20.0.0.1 255.255.255.0 gateway 20.0.0.254

PC1> ping 10.0.0.1
10.0.0.1 icmp_seq=1 timeout
84 bytes from 10.0.0.1 icmp_seq=2 ttl=63 time=34.571 ms
84 bytes from 10.0.0.1 icmp_seq=3 ttl=63 time=32.165 ms
84 bytes from 10.0.0.1 icmp_seq=4 ttl=63 time=31.942 ms
84 bytes from 10.0.0.1 icmp_seq=5 ttl=63 time=28.511 ms

PC1> 
```

The bottom of the window features the SolarWinds logo and the text "Solar-PuTTY free tool" on the left, and the copyright notice "© 2019 SolarWinds Worldwide, LLC. All rights reserved." on the right.

idem pour le pc-4

```

Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
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Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC4> ip 10.0.0.2/24
Checking for duplicate address...
PC1 : 10.0.0.2 255.255.255.0

PC4> ping 20.0.0.1
No gateway found

PC4> ip 10.0.0.2/24 10.0.0.254
Checking for duplicate address...
PC1 : 10.0.0.2 255.255.255.0 gateway 10.0.0.254

PC4> ping 20.0.0.1
host (10.0.0.254) not reachable

PC4> ping 20.0.0.1
20.0.0.1 icmp_seq=1 timeout
20.0.0.1 icmp_seq=2 timeout
84 bytes from 20.0.0.1 icmp_seq=3 ttl=63 time=31.893 ms
84 bytes from 20.0.0.1 icmp_seq=4 ttl=63 time=17.228 ms
84 bytes from 20.0.0.1 icmp_seq=5 ttl=63 time=42.042 ms

PC4> 
```

« BERENGER_BENAM »

