

Задачи

Часть 1. Настройка службы Syslog

Часть 2. Создание регистрируемых событий

Часть 3. Настройка часов на коммутаторе вручную

Часть 4. Настройка сервиса NTP

Часть 5. Проверка записей с метками времени

Сценарий

В этом упражнении необходимо включить и использовать Syslog и NTP, чтобы сетевой администратор мог более эффективно вести мониторинг сети.

Часть 1: Настройка службы Syslog

Шаг 1: Включите службу Syslog.

- Щелкните **Syslog** и выберите вкладку **Services** (Сервисы).
- Включите **Syslog** и разместите окно таким образом, чтобы вести мониторинг активности.

Шаг 2: Настройте промежуточные устройства для использования службы Syslog.

- Настройте маршрутизатор **R1** для отправки событий журнала на сервер **Syslog**.
`R1(config)# logging 10.0.1.254`
- Настройте коммутатор **S1** для отправки событий журнала на сервер **Syslog**.
- Настройте коммутатор **S2** для отправки событий журнала на сервер **Syslog**.

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Страница 1 из 3

Работа в аудитории. Настройка протоколов Syslog и NTP

Часть 2: Создание регистрируемых событий

Шаг 1: Измените состояние интерфейсов для создания записей журнала событий.

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Console logging: level debugging, 7 messages logged, xml disabled,
filtering disabled
Monitor logging: level debugging, 7 messages logged, xml disabled,
filtering disabled
Buffer logging: disabled, xml disabled,
filtering disabled

Logging Exception size (4096 bytes)
Count and timestamp logging messages: disabled
Persistent logging: disabled

No active filter modules.

ESM: 0 messages dropped
Trap logging: level informational, 7 message lines logged
Logging to 10.0.1.254 (udp port 514, audit disabled,
authentication disabled, encryption disabled, link up),
2 message lines logged,
0 message lines rate-limited,
0 message lines dropped-by-MD,
xml disabled, sequence number disabled
filtering disabled
NikishaevS1#
```

Ctrl+F6 to exit CLI focus

Top

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
filtering disabled
Monitor logging: level debugging, 11 messages logged, xml disabled,
filtering disabled
Buffer logging: disabled, xml disabled,
filtering disabled

Logging Exception size (4096 bytes)
Count and timestamp logging messages: disabled
Persistent logging: disabled

No active filter modules.

ESM: 0 messages dropped
Trap logging: level informational, 11 message lines logged
Logging to 10.0.1.254 (udp port 514, audit disabled,
authentication disabled, encryption disabled, link up),
2 message lines logged,
0 message lines rate-limited,
0 message lines dropped-by-MD,
xml disabled, sequence number disabled
filtering disabled
NikishaevS1#
```

Ctrl+F6 to exit CLI focus

Copy

Paste

Top

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
Console logging: level debugging, 9 messages logged, xml
disabled,
filtering disabled
Monitor logging: level debugging, 9 messages logged, xml
disabled,
filtering disabled
Buffer logging: disabled, xml disabled,
filtering disabled

Logging Exception size (4096 bytes)
Count and timestamp logging messages: disabled
Persistent logging: disabled

No active filter modules.

ESM: 0 messages dropped
Trap logging: level informational, 9 message lines logged
Logging to 10.0.1.254 (udp port 514, audit disabled,
authentication disabled, encryption disabled,
link up),
2 message lines logged,
0 message lines rate-limited,
0 message lines dropped-by-MD,
xml disabled, sequence number disabled
filtering disabled
NikishaevS2#
```

Ctrl+F6 to exit CLI focus

Copy

Paste

Top

Physical

Config

Services

Desktop

Programming

Attributes

Syslog

Service ☒ On ☐ Off

Time	HostName	Message
------	----------	---------

Clear Log

15 10.2.3.5 Packet ...

+ Создать

Войти

Найти текст или инструмент

Включите Syslog и разместите окно таким образом, чтобы вести мониторинг активности.

2: Настройте промежуточные устройства для использования службы Syslog.

Настройте маршрутизатор R1 для отправки событий журнала на сервер Syslog.

R1(config)# logging 10.0.1.254

Настройте коммутатор S1 для отправки событий журнала на сервер Syslog.

Настройте коммутатор S2 для отправки событий журнала на сервер Syslog.

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Страница 1 из

а в аудитории. Настройка протоколов Syslog и NTP

Часть 2: Создание регистрируемых событий

Шаг 1: Измените состояние интерфейсов для создания записей журнала событий.

а. Настройте интерфейс Loopback 0 маршрутизатора R1, а затем выключите его.

б. Выключите компьютеры ПК 1 и ПК 2. Включите их снова.

Шаг 2: Изучите события системного журнала Syslog.

а. Посмотрите события системного журнала Syslog. Примечание. Все события были записаны, но метки времени оказались неправильными.

б. Перед переходом к следующей части очистите журнал.

Часть 3: Настройка часов на коммутаторе вручную

Шаг 1: Вручную настройте часы на коммутаторах.

Вручную настройте часы на коммутаторах S1 и S2, установив текущую дату и примерное время. Пример.

S1# clock set 11:47:00 July 10 2013

Шаг 2: Включите службу меток времени для журналирования на коммутаторах.

Настройте коммутаторы S1 и S2 для отправки соответствующих меток времени вместе с записями событий, передаваемыми на сервер Syslog.

S1(config)# service timestamps log datetime msec

Часть 4: Настройка службы NTP

Шаг 1: Включите службу NTP.

15°C Cloudy

Search

215.9 x 279.4 mm

5:55 PM 10/3/2023



Cisco Packet Tracer - C:\Users\matve\Downloads\15_10.2.3.5 Packet Tracer - Configuring Syslog and NTP.pka

File Edit Options View Tools Extensions Help

Logical

Physical

x: 1816, y: 411

Syslog

Physical Config **Services** Desktop Programming Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

Syslog

Service ☒ On ☐ Off

	Time	HostName	Message
1 -		10.0.1.1	%LINEPROTO-5-UPDOWN: Line proto...
2 -		10.0.1.1	%LINK-5-CHANGED: Interface Loopb...
3 -		10.0.1.1	%LINEPROTO-5-UPDOWN: Line proto...
4 -		10.0.1.1	%LINK-5-CHANGED: Interface Loopb...

Clear Log

☒ Top

R1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
NikishaevR1>en
NikishaevR1>enable
NikishaevR1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
NikishaevR1(config)#in
NikishaevR1(config)#interface L
NikishaevR1(config)#interface Loopback ?
<0-2147483647> Loopback interface number
NikishaevR1(config)#interface Loopback 0

NikishaevR1(config-if)#
%LINK-5-CHANGED: Interface Loopback0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

NikishaevR1(config-if)#sh
NikishaevR1(config-if)#shutdown

NikishaevR1(config-if)#
%LINK-5-CHANGED: Interface Loopback0, changed state to administratively down

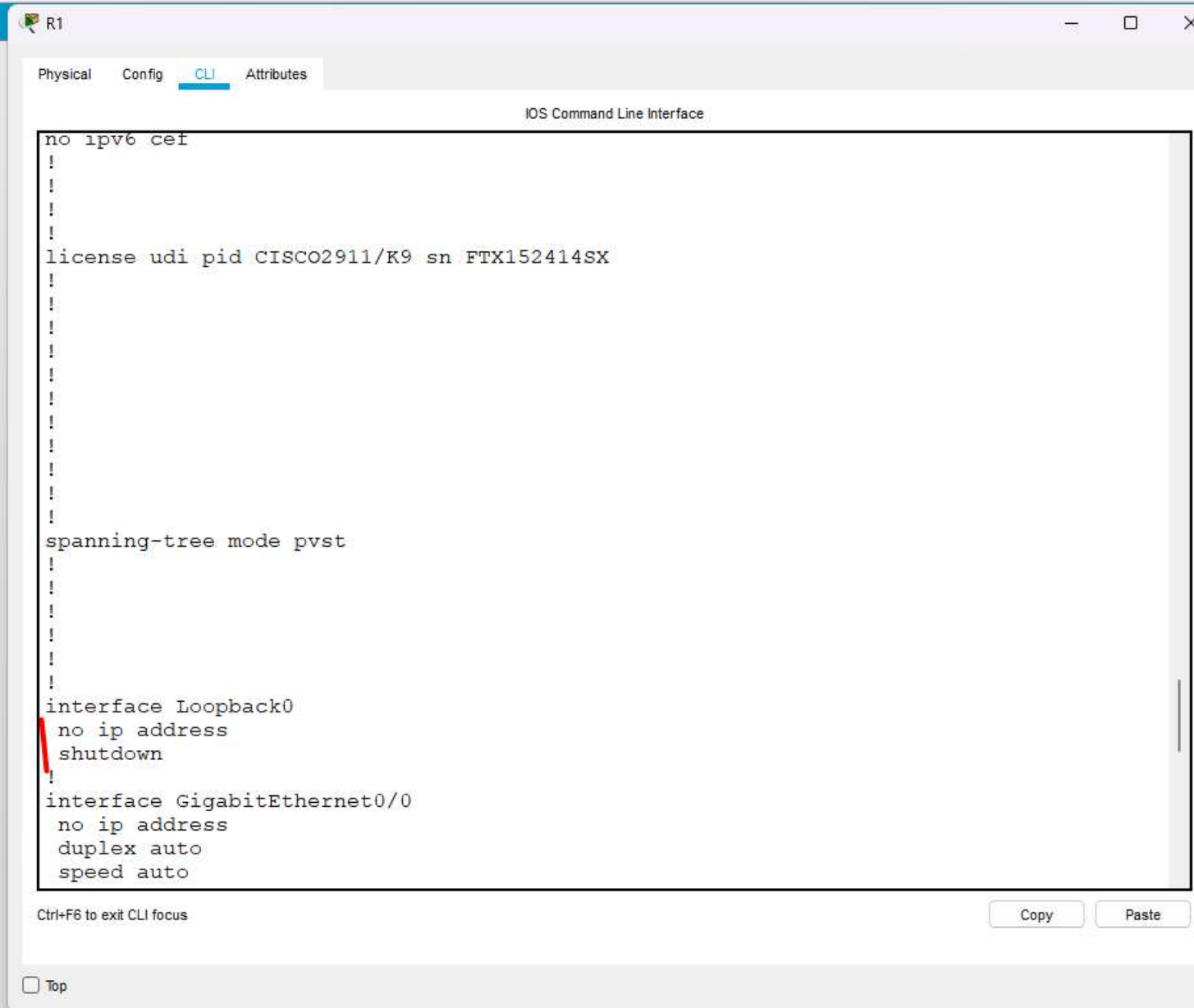
%LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to down
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

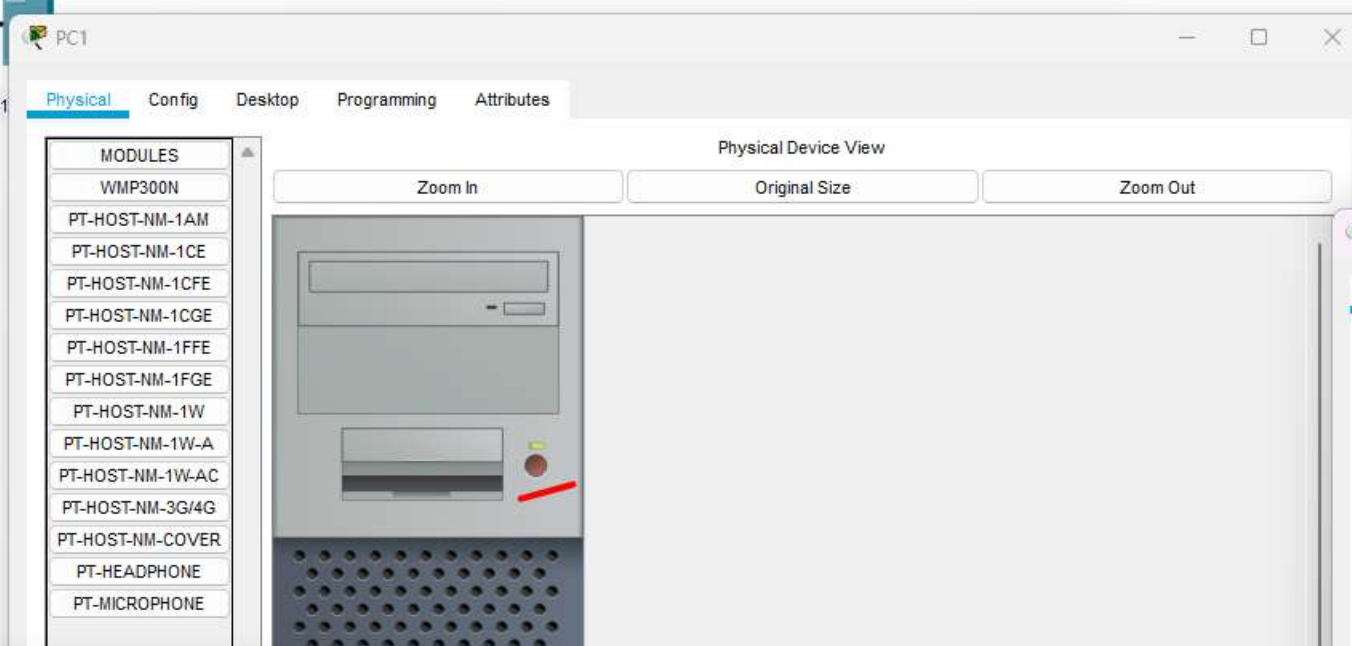
а. Настройте интерфейс Loopback 0 маршрутизатора R1, а затем выключите его.



The screenshot shows the Syslog configuration window in MikroTik WinBox. The 'Services' tab is active, displaying a list of services on the left sidebar. The 'SYSLOG' service is highlighted. On the right, the Syslog service configuration is shown, with the 'Service' status set to 'On'. Below this, a table displays the Syslog log entries.

Time	HostName	Message
1 -	10.0.1.1	%SYS-5-CONFIG_1: Configured from ...
2 -	10.0.1.1	%LINEPROTO-5-UPDOWN: Line proto...
3 -	10.0.1.1	%LINK-5-CHANGED: Interface Loopb...
4 -	10.0.1.1	%LINEPROTO-5-UPDOWN: Line proto...
5 -	10.0.1.1	%LINK-5-CHANGED: Interface Loopb...

At the bottom right of the Syslog configuration area, there is a 'Clear Log' button. In the bottom left corner of the WinBox window, there is a 'Top' button with a blue checkmark icon.



MODULES
WMP300N
PT-HOST-NM-1AM
PT-HOST-NM-1CE
PT-HOST-NM-1CFE
PT-HOST-NM-1CGE
PT-HOST-NM-1FFE
PT-HOST-NM-1FGE
PT-HOST-NM-1W
PT-HOST-NM-1W-A
PT-HOST-NM-1W-AC
PT-HOST-NM-3G/4G
PT-HOST-NM-COVER
PT-HEADPHONE
PT-MICROPHONE

Physical Device View


Zoom In Original Size Zoom Out

Syslog			
Service			
			<input checked="" type="radio"/> On <input type="radio"/> Off
	Time	HostName	Message
1	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line prot...
2	-	10.0.2.2	%LINK-5-CHANGED: Interface Fast...
3	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line prot...
4	-	10.0.1.2	%LINK-5-CHANGED: Interface Fast...
5	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line prot...
6	-	10.0.2.2	%LINK-3-UPDOWN: Interface FastE...
7	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line prot...
8	-	10.0.1.2	%LINK-3-UPDOWN: Interface FastE...
9	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line prot...
10	-	10.0.1.2	%LINK-5-CHANGED: Interface Fast...
11	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line prot...

	Time	HostName	Message
1	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line prot...
2	-	10.0.2.2	%LINK-5-CHANGED: Interface Fast...
3	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line prot...
4	-	10.0.1.2	%LINK-5-CHANGED: Interface Fast...
5	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line prot...
6	-	10.0.2.2	%LINK-3-UPDOWN: Interface FastE...
7	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line prot...
8	-	10.0.1.2	%LINK-3-UPDOWN: Interface FastE...
9	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line prot...
10	-	10.0.1.2	%LINK-5-CHANGED: Interface Fast...
11	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line prot...

Physical Device View

Zoom In Original Size Zoom Out



The WMP300N module provides one 2.4GHz wireless interface suitable for connection to wireless networks. The module supports protocols that use Ethernet for LAN access.

File Edit Options View Tools Extensions Help

Logical

Physical

x: 1016, y: 858

[Root]

19:16:30

SysInn
10.0.1.254

S1

PC1

L1

R1

S2

PC2

L2

Internet

PC1

Physical

Config

Desktop

Programming

Attributes

MODULES

WMP300N

PT-HOST-NM-1AM

PT-HOST-NM-1CE

PT-HOST-NM-1CFE

PT-HOST-NM-1CGE

PT-HOST-NM-1FFE

PT-HOST-NM-1FGE

PT-HOST-NM-1W

PT-HOST-NM-1W-A

PT-HOST-NM-1W-AC

PT-HOST-NM-3G/4G

PT-HOST-NM-COVER

PT-HEADPHONE

PT-MICROPHONE

Physical Device View

Zoom In

Original Size

Zoom Out

Customize Icon in Physical View

Customize Icon in Logical View

1z wireless interface suitable for connection to wireless networks. The module AN access.

PC2

Physical

Config

Desktop

Programming

Attributes

MODULES

WMP300N

PT-HOST-NM-1AM

PT-HOST-NM-1CE

PT-HOST-NM-1CFE

PT-HOST-NM-1CGE

PT-HOST-NM-1FFE

PT-HOST-NM-1FGE

PT-HOST-NM-1W

PT-HOST-NM-1W-A

PT-HOST-NM-1W-AC

PT-HOST-NM-3G/4G

PT-HOST-NM-COVER

PT-HEADPHONE

PT-MICROPHONE

Physical Device View

Zoom In

Original Size

Zoom Out

Customize Icon in Physical View

Customize Icon in Logical View

The WMP300N module provides one 2.4GHz wireless interface suitable for connection to wireless networks. The module supports protocols that use Ethernet for LAN access.

Syslog

Physical

Config

Services

Desktop

Programming

Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

Syslog

Service

On

Off

	Time	HostName	Message
1	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
2	-	10.0.2.2	%LINK-5-CHANGED: Interface FastEt...
3	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
4	-	10.0.1.2	%LINK-5-CHANGED: Interface FastEt...
5	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
6	-	10.0.2.2	%LINK-3-UPDOWN: Interface FastEth...
7	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
8	-	10.0.1.2	%LINK-3-UPDOWN: Interface FastEth...
9	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
10	-	10.0.1.2	%LINK-5-CHANGED: Interface FastEt...
11	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...

Clear Log

4321

1941

2901

2911

8191OX

819HGW

829

1240

PT-Router

PT-Empty

1841

2620M4

2621M4

2811

(Select a Device to Drag and Drop to the Workspace)

Realtime

Simulation

14°C Cloudy

Search

6:26 PM 10/3/2023

Посмотрите события системного журнала Syslog. Примечание. Все события были записаны, но метки времени оказались неправильными.

Recycle Bin

AdGuard VPN

Adobe Acrobat

NVIDIA Broadcast

Steam

Discord

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File Edit Options View Tools Extensions Help

Logical

Physical

x: 1574, y: 1095

[Root]

21:34:30

Syslog

Physical Config **Services** Desktop Programming Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

Syslog

Service

On

Off

	Time	HostName	Message
8	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
9	-	10.0.1.2	%LINK-3-UPDOWN: Interface FastEth...
10	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
11	-	10.0.1.2	%LINK-5-CHANGED: Interface FastEt...
12	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
13	-	10.0.1.2	%LINK-3-UPDOWN: Interface FastEth...
14	-	10.0.1.1	%SYS-5-CONFIG_I: Configured from ...
15	-	10.0.1.1	%LINEPROTO-5-UPDOWN: Line proto...
16	-	10.0.1.1	%LINK-5-CHANGED: Interface Loopb...
17	-	10.0.1.1	%LINEPROTO-5-UPDOWN: Line proto...
18	-	10.0.1.1	%LINK-5-CHANGED: Interface Loopb...

Clear Log

S1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
% Unrecognized command
NikishaevS1(config)#end
NikishaevS1#
%SYS-5-CONFIG_I: Configured from console by
console

NikishaevS1#clock s
NikishaevS1#clock set 06:27:00 Oc
NikishaevS1#clock set 06:27:00 Oc?
% Unrecognized command
NikishaevS1#clock set 06:27:00 Ok
NikishaevS1#clock set 06:27:00 Ok?
% Unrecognized command
NikishaevS1#clock set 06:27:00 J
NikishaevS1#clock set 06:27:00 J?
% Unrecognized command
NikishaevS1#clock set 06:27:00 October 3 2023
NikishaevS1#show c
NikishaevS1#show cl
NikishaevS1#show clock
6:27:20.141 UTC Tue Oct 3 2023
NikishaevS1#!
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Вручную настройте часы на коммутаторах S1 и S2, установив текущую дату и примерное время.

Realtime

Simulation

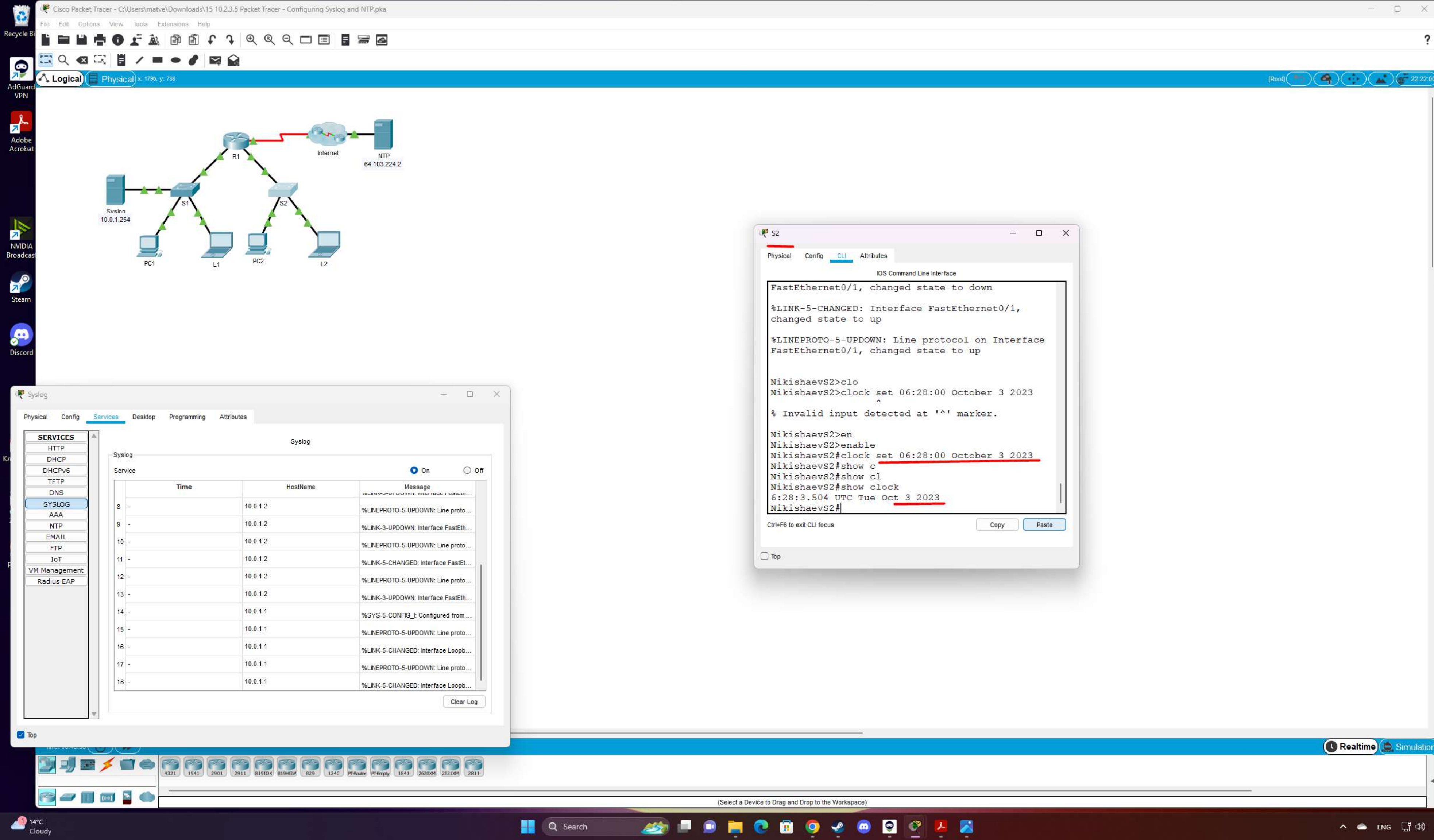
4321 1941 2901 2911 8191OX 819HGW 829 1240 PFRouter PFREmpty 1841 2620M4 2621M4 2811

(Select a Device to Drag and Drop to the Workspace)

14°C Cloudy

Search

6:28 PM 10/3/2023



Cisco Packet Tracer - Configuring Syslog and NTP.pka

File Edit Options View Tools Extensions Help

Logical Physical x: 1095, y: 1095

Syslog

Physical Config **Services** Desktop Programming Attributes

Syslog

Service ☒ On ☐ Off

	Time	HostName	Message
1	-	10.0.1.2	%SYS-5-CONFIG_I: Configured from ...
2	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
3	-	10.0.2.2	%LINK-5-CHANGED: Interface FastEt...
4	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
5	-	10.0.1.2	%LINK-5-CHANGED: Interface FastEt...
6	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
7	-	10.0.2.2	%LINK-3-UPDOWN: Interface FastEth...
8	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
9	-	10.0.1.2	%LINK-3-UPDOWN: Interface FastEth...
10	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
11	-	10.0.1.2	%LINK-5-CHANGED: Interface FastEt...

Clear Log

Top

S1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
NikishaevS1#
%SYS-5-CONFIG_I: Configured from console by console

NikishaevS1#clock s
NikishaevS1#clock set 06:27:00 Oc
NikishaevS1#clock set 06:27:00 Oc?
% Unrecognized command
NikishaevS1#clock set 06:27:00 Ok
NikishaevS1#clock set 06:27:00 Ok?
% Unrecognized command
NikishaevS1#clock set 06:27:00 J
NikishaevS1#clock set 06:27:00 J?
% Unrecognized command
NikishaevS1#clock set 06:27:00 October 3 2023
NikishaevS1#show c
NikishaevS1#show cl
NikishaevS1#show clock
6:27:20.141 UTC Tue O
NikishaevS1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
NikishaevS1(config)#service timestamps log datetime msec
NikishaevS1(config)#
```

Ctrl+F6 to exit CLI focus

Copy Paste

S2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
state to down

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed
state to up

NikishaevS2>clo
NikishaevS2>clock set 06:28:00 October 3 2023
^
% Invalid input detected at '^' marker.

NikishaevS2>en
NikishaevS2>enable
NikishaevS2#clock set 06:28:00 October 3 2023
NikishaevS2#show c
NikishaevS2#show cl
NikishaevS2#show clock
6:28:3.504 UTC Tue Oct 3 2023
NikishaevS2#
NikishaevS2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
NikishaevS2(config)#service timestamps log datetime msec
NikishaevS2(config)#!
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Настройте коммутаторы S1 и S2 для отправки соответствующих меток времени вместе с записями событий, передаваемыми на сервер Syslog

Realtime Simulation

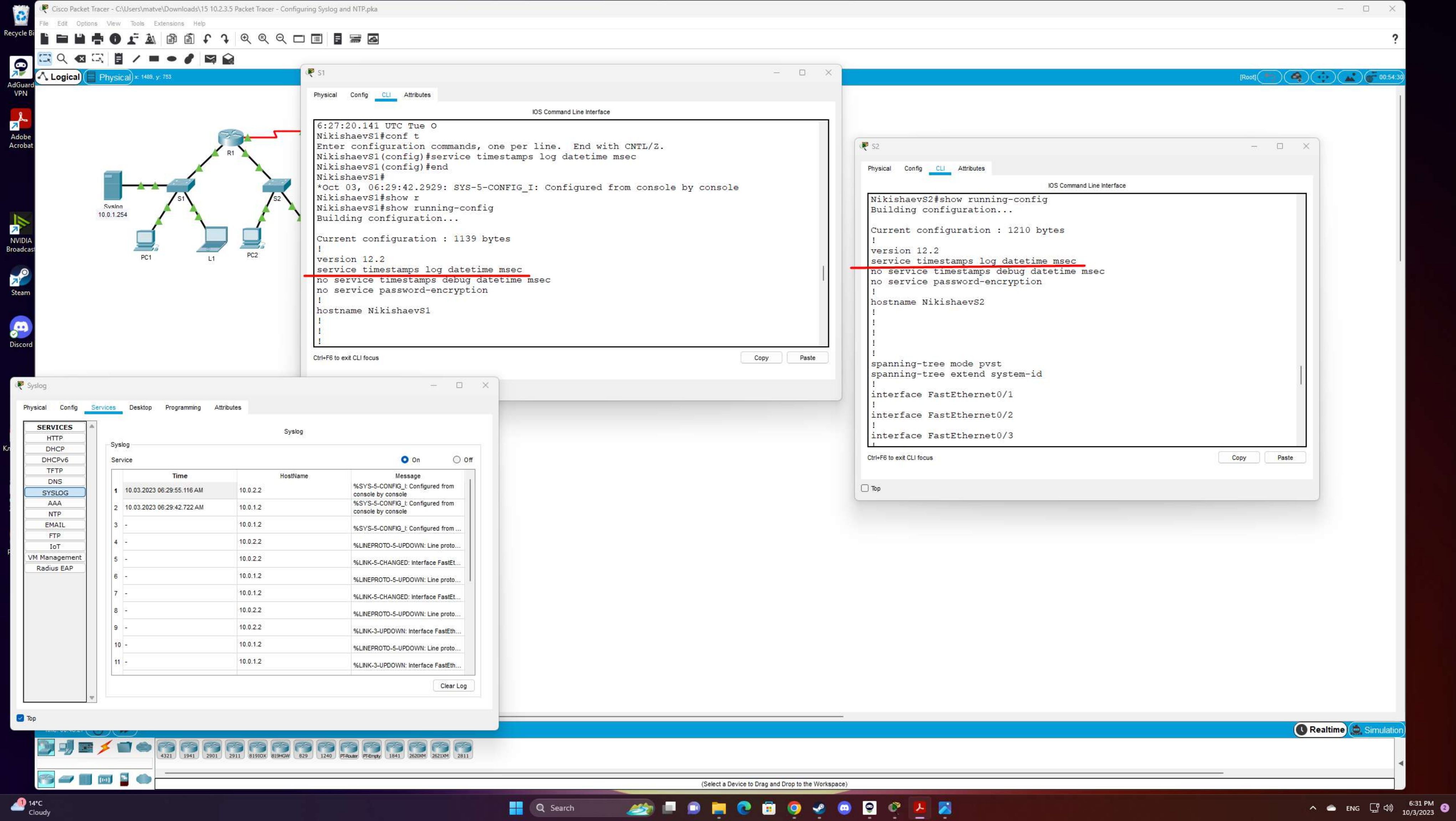
4321 1941 2901 2911 8191OX 8191GW 829 1240 PFRouter PFREmpty 1841 2620XM 2621XM 2811

(Select a Device to Drag and Drop to the Workspace)

14°C Cloudy

Search

6:30 PM 10/3/2023



File Edit Options View Tools Extensions Help

Logical

Physical

x: 1733, y: 750

[Root]

02:07:00

Syslnn
10.0.1.254

S1

PC1

L1

R1

S2

PC2

L2

Internet

NTP
64.103.224.2

NTS

Physical Config Services Desktop Programming Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTS

EMAIL

FTP

IoT

VM Management

Radius EAP

Service

NTS

On

Off

Authentication

Enable

Disable

Key:

Password:

October, 2023

06:32:19PM

Sun	Mon	Tue	Wed	Thu	Fri	Sat
24	25	26	27	28	29	30
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

Top

Syslog

Physical Config Services Desktop Programming Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTS

EMAIL

FTP

IoT

VM Management

Radius EAP

Service

On

Off

	Time	HostName	Message
1	10.03.2023 06:29:55.116 AM	10.0.2.2	%SYS-5-CONFIG_I: Configured from console by console
2	10.03.2023 06:29:42.722 AM	10.0.1.2	%SYS-5-CONFIG_I: Configured from console by console
3	-	10.0.1.2	%SYS-5-CONFIG_I: Configured from ...
4	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
5	-	10.0.2.2	%LINK-5-CHANGED: Interface FastEt...
6	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
7	-	10.0.1.2	%LINK-5-CHANGED: Interface FastEt...
8	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
9	-	10.0.2.2	%LINK-3-UPDOWN: Interface FastEth...
10	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
11	-	10.0.1.2	%LINK-3-UPDOWN: Interface FastEth...

Clear Log

Top

Realtime

Simulation

4321 1941 2901 2911 81910X 819HGW 829 1240 PFRouter PFREmpty 1841 2620M 2621M 2811

(Select a Device to Drag and Drop to the Workspace)

14°C Cloudy

Search

6:32 PM 10/3/2023

Включите службу NTP и запишите отображаемые дату и время.

06:32:19 3 Oct

Recycle Bin

AdGuard VPN

Adobe Acrobat

NVIDIA Broadcast

Steam

Discord

Cisco Packet Tracer - C:\Users\matve\Downloads\15 10.2.3.5 Packet Tracer - Configuring Syslog and NTP.pka

File Edit Options View Tools Extensions Help

Logical

Physical

x: 940, y: 843

[Root]

03:06:30

Syslog

Physical Config **Services** Desktop Programming Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

Syslog

Service

On

Off

	Time	HostName	Message
1	10.03.2023 06:29:55.116 AM	10.0.2.2	%SYS-5-CONFIG_I: Configured from console by console
2	10.03.2023 06:29:42.722 AM	10.0.1.2	%SYS-5-CONFIG_I: Configured from console by console
3	-	10.0.1.2	%SYS-5-CONFIG_I: Configured from ...
4	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
5	-	10.0.2.2	%LINK-5-CHANGED: Interface FastEt...
6	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
7	-	10.0.1.2	%LINK-5-CHANGED: Interface FastEt...
8	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
9	-	10.0.2.2	%LINK-3-UPDOWN: Interface FastEth...
10	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
11	-	10.0.1.2	%LINK-3-UPDOWN: Interface FastEth...

Clear Log

Top

R1

Physical Config **CLI** Attributes

IOS Command Line Interface

! ! ! ! logging 10.0.1.254 line con 0 ! line aux 0 ! line vty 0 4 login ! ! ! end

NikishaevR1# conf t

Enter configuration commands, one per line. End with CNTL/Z.

NikishaevR1(config)#ntp server 64.103.224.2

NikishaevR1(config)#

Ctrl+F6 to exit CLI focus

Copy

Paste

Top

Установите на часах маршрутизатора R1 дату и время согласно серверу NTP.

Realtime

Simulation

4321 1941 2901 2911 8191OX 819HGW 829 1240 PFRouter PFREmpty 1841 2620XM 2621XM 2811

(Select a Device to Drag and Drop to the Workspace)

14°C Cloudy

Search

6:33 PM 10/3/2023

Recycle Bin

AdGuard VPN

Adobe Acrobat

NVIDIA Broadcast

Steam

Discord

Cisco Packet Tracer - C:\Users\matve\Downloads\15_10.2.3.5 Packet Tracer - Configuring Syslog and NTP.pka

File Edit Options View Tools Extensions Help

Logical

Physical

x: 2287, y: 1095

[Root] 03:56:30

Syslog

Physical Config **Services** Desktop Programming Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

Syslog

Service ☒ On ☐ Off

	Time	HostName	Message
1	-	10.0.1.1	%SYS-5-CONFIG_I: Configured from ...
2	10.03.2023 06:29:55.116 AM	10.0.2.2	%SYS-5-CONFIG_I: Configured from console by console
3	10.03.2023 06:29:42.722 AM	10.0.1.2	%SYS-5-CONFIG_I: Configured from console by console
4	-	10.0.1.2	%SYS-5-CONFIG_I: Configured from ...
5	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
6	-	10.0.2.2	%LINK-5-CHANGED: Interface FastEt...
7	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
8	-	10.0.1.2	%LINK-5-CHANGED: Interface FastEt...
9	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
10	-	10.0.2.2	%LINK-3-UPDOWN: Interface FastEth...
11	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...

Clear Log

R1

Physical Config **CLI** Attributes

IOS Command Line Interface

Enter configuration commands, one per line. End with CNTL/Z.
NikishaevR1(config)#ntp server 64.103.224.2
NikishaevR1(config)#end
NikishaevR1#
%SYS-5-CONFIG_I: Configured from console by console
show ru
NikishaevR1#show running-config | ?
begin Begins unfiltered output of the show command with the first line that contains the regular expression.
exclude Displays output lines that do not contain the regular expression.
include Displays output lines that contain the regular expression.
NikishaevR1#show running-config | in
NikishaevR1#show running-config | include ?
LINE Regular expression.
NikishaevR1#show running-config | include ntp
ntp server 64.103.224.2
NikishaevR1#!

Ctrl+F6 to exit CLI focus

Copy Paste

☒ Top

Realtime

Simulation

4321 1941 2901 2911 8191DX 8191GW 829 1240 PFRouter PFREmpty 1841 2620M4 2621M4 2811

(Select a Device to Drag and Drop to the Workspace)

14°C Cloudy

Search

6:34 PM 10/3/2023



File Edit Options View Tools Extensions Help

Logical

Physical

x: 1051, y: 934

[Root]

05:28:30

Syslog

Physical Config **Services** Desktop Programming Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

Syslog

Service ☒ On ☐ Off

	Time	HostName	Message
1	03.01.1993 12:52:18.333 AM	10.0.1.1	%SYS-5-CONFIG_I: Configured from console by console
2	-	10.0.1.1	%SYS-5-CONFIG_I: Configured from ...
3	10.03.2023 06:29:55.116 AM	10.0.2.2	%SYS-5-CONFIG_I: Configured from console by console
4	10.03.2023 06:29:42.722 AM	10.0.1.2	%SYS-5-CONFIG_I: Configured from console by console
5	-	10.0.1.2	%SYS-5-CONFIG_I: Configured from ...
6	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
7	-	10.0.2.2	%LINK-5-CHANGED: Interface FastEt...
8	-	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
9	-	10.0.1.2	%LINK-5-CHANGED: Interface FastEt...
10	-	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
11	-	10.0.2.2	%LINK-3-UPDOWN: Interface FastEth...

Clear Log

R1

Physical Config **CLI** Attributes

IOS Command Line Interface

NikishaevR1# conf t

Enter configuration commands, one per line. End with CNTL/Z.

NikishaevR1(config)#ntp server 64.103.224.2

NikishaevR1(config)#end

NikishaevR1#

%SYS-5-CONFIG_I: Configured from console by console

show ru

NikishaevR1#show running-config | ?

begin Begins unfiltered output of the show command with the first line that contains the regular expression.

exclude Displays output lines that do not contain the regular expression.

include Displays output lines that contain the regular expression.

NikishaevR1#show running-config | in

NikishaevR1#show running-config | include ?

LINE Regular expression.

NikishaevR1#show running-config | include ntp

ntp server 64.103.224.2

NikishaevR1#conf t

Enter configuration commands, one per line. End with CNTL/Z.

NikishaevR1(config)#service timestamps log datetime msec

NikishaevR1(config)#end

NikishaevR1#

*Mar 01, 00:52:18.5252: SYS-5-CONFIG_I: Configured from console by console

show running-

config | include service

service timestamps log datetime msec

~~no service timestamps debug datetime msec~~

no service password-encryption

NikishaevR1#

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

Realtime

Simulation

4321 1941 2901 2911 8191OX 8191GW 829 1240 PTFRouter PTFEmpty 1841 2620XM 2621XM 2811

(Select a Device to Drag and Drop to the Workspace)

Настройте маршрутизатор R1 для отправки соответствующих меток времени вместе с записями событий, передаваемыми на сервер Syslog.

File Edit Options View Tools Extensions Help

Logical

Physical

x: 1642, y: 860

[Root] 07:38:30

Physical Config CLI Attributes

IOS Command Line Interface

```
NikishaevR1(config)#service timestamps log datetime msec
NikishaevR1(config)#end
NikishaevR1#
*Mar 01, 00:52:18.5252: SYS-5-CONFIG_I: Configured from console by consoleshow running-
config | include service
service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
NikishaevR1#cong t
^
% Invalid input detected at '^' marker.

NikishaevR1#
NikishaevR1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
NikishaevR1(config)#int
NikishaevR1(config)#interface L
NikishaevR1(config)#interface Loopback 0
NikishaevR1(config-if)#shut
NikishaevR1(config-if)#shutdown
NikishaevR1(config-if)#end
NikishaevR1#
*Oct 03, 18:36:48.3636: SYS-5-CONFIG_I: Configured from console by console
NikishaevR1#show in
NikishaevR1#show run
NikishaevR1#show running-config | in
NikishaevR1#show running-config | include Lo
NikishaevR1#show running-config | include Loopback
interface Loopback0
NikishaevR1#show running-config
```

Ctrl+F6 to exit CLI focus

Copy Paste

☒ Top

Physical Config Services Desktop Programming Attributes

Syslog

Service ☒ On ☐ Off

	Time	HostName	Message
1	10.03.2023 06:36:48.851 PM	10.0.1.1	%SYS-5-CONFIG_I: Configured from console by console

Clear Log

☒ Top

4321 1941 2901 2911 8191DX 819HGW 829 1240 PFRouter PFREmpty 1841 2620M 2621M 2811

(Select a Device to Drag and Drop to the Workspace)

14°C Cloudy

Search

6:38 PM 10/3/2023

Снова включите, а затем выключите интерфейс Loopback 0 маршрутизатора R1.

File Edit Options View Tools Extensions Help

Logical

Physical

x: 2094, y: 555

[Root]

08:17:00

Syslog

Physical Config **Services** Desktop Programming Attributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

Syslog

Service ☒ On ☐ Off

	Time	HostName	Message
1	10.03.2023 06:36:48.851 PM	10.0.1.1	%SYS-5-CONFIG: I: Configured from console by console

Clear Log

Top

R1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
spanning-tree mode pvst
!
!
!
!
!
!
interface Loopback0
no ip address
shutdown
!
interface GigabitEthernet0/0
no ip address
duplex auto
speed auto
shutdown
!
interface GigabitEthernet0/1
ip address 10.0.1.1 255.255.255.0
duplex auto
speed auto
!
interface GigabitEthernet0/2
ip address 10.0.2.1 255.255.255.0
duplex auto
speed auto
!
interface Serial0/0/0
ip address 209.165.14.2 255.255.255.0
!

```

Ctrl+F6 to exit CLI focus

Copy Paste

☒ Top

Recycle Bin

AdGuard VPN

Adobe Acrobat

NVIDIA Broadcast

Steam

Discord

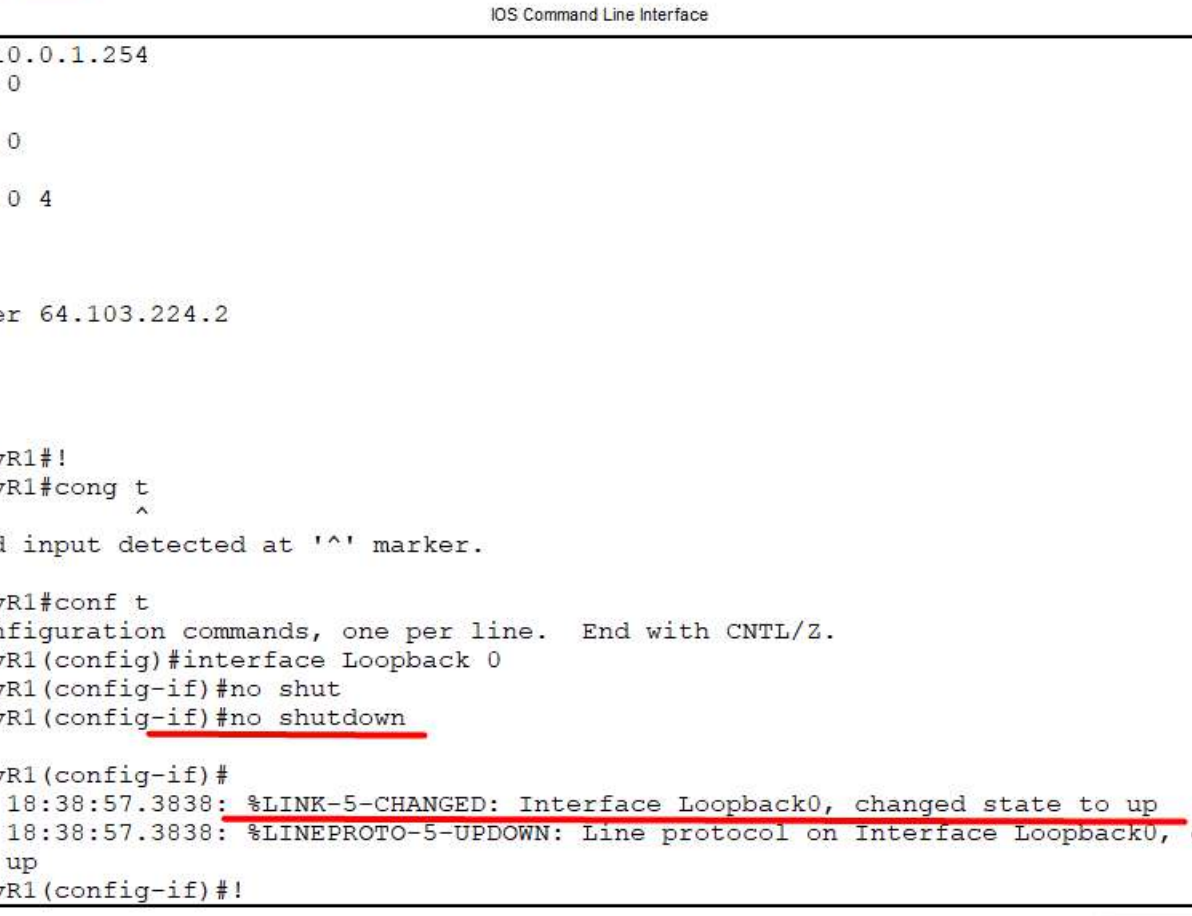
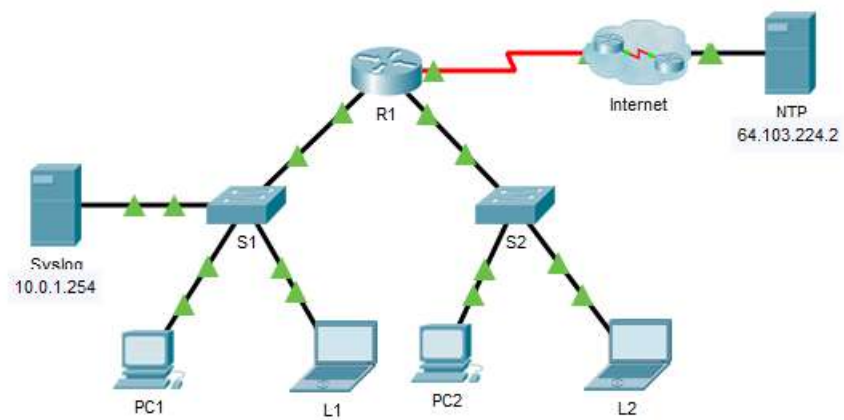
4321 1941 2901 2911 81910X 819HGW 829 1240 PFRouter PFREmpty 1841 2620XM 2621XM 2811

(Select a Device to Drag and Drop to the Workspace)

14°C Cloudy

Search

6:39 PM 10/3/2023



The screenshot shows a Cisco IOS Command Line Interface (CLI) window. The window has a title bar with 'R1' and standard window controls. Below the title bar is a tabbed interface with 'Physical', 'Config', 'CLI', and 'Attributes' tabs. The 'CLI' tab is active, displaying the following text:

```
logging 10.0.1.254
line con 0
!
line aux 0
!
line vty 0 4
  login
!
!
ntp server 64.103.224.2
!
end

NikishaevR1#!
NikishaevR1#cong t
^
% Invalid input detected at '^' marker.

NikishaevR1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
NikishaevR1(config)#interface Loopback 0
NikishaevR1(config-if)#no shut
NikishaevR1(config-if)#no shutdown

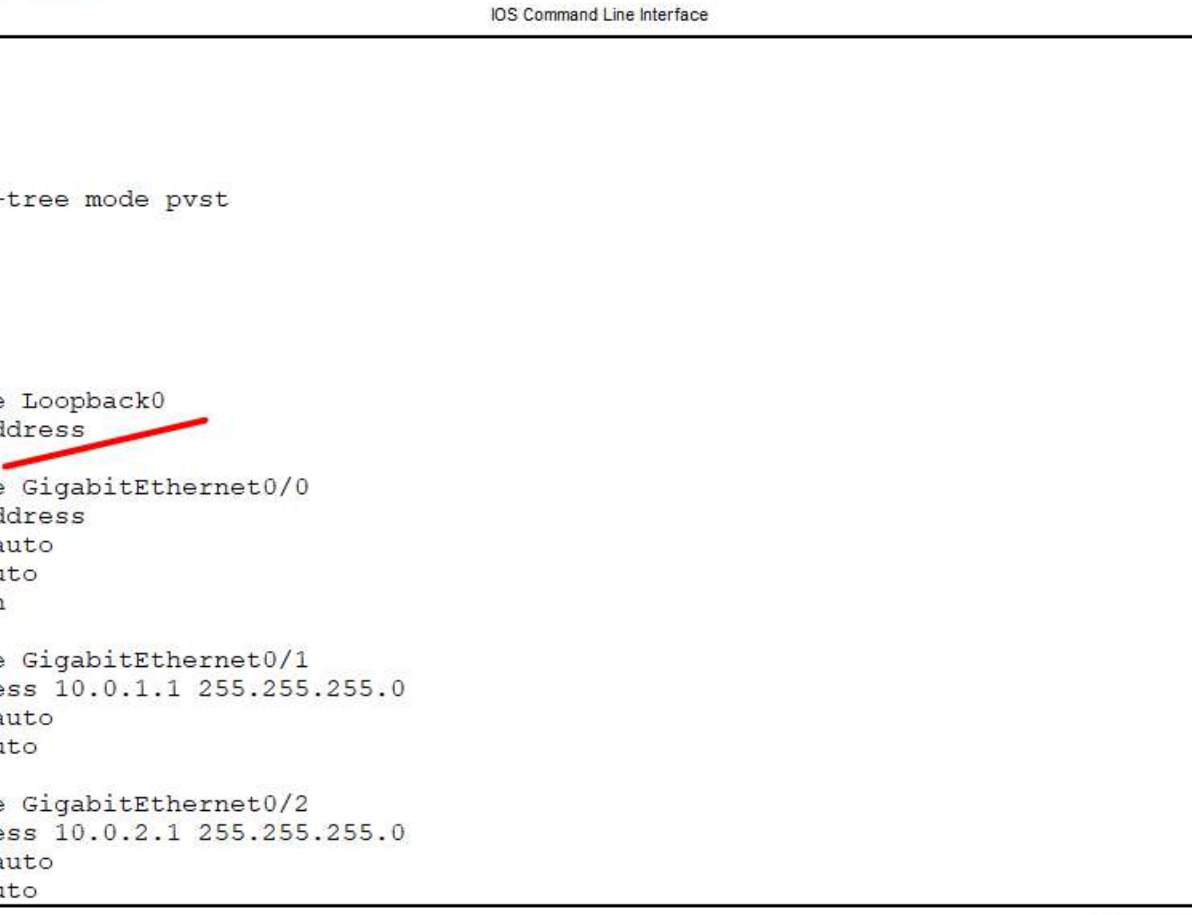
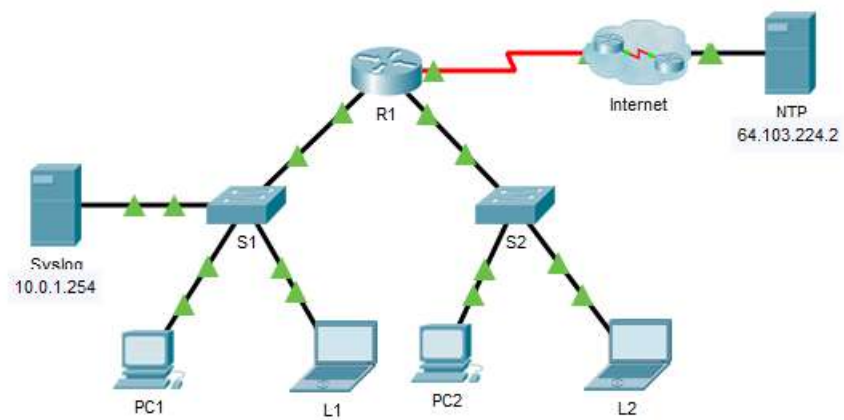
NikishaevR1(config-if)#
*Oct 03, 18:38:57.3838: %LINK-5-CHANGED: Interface Loopback0, changed state to up
*Oct 03, 18:38:57.3838: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed
state to up
NikishaevR1(config-if)#!
```

At the bottom of the window, there is a status bar that reads 'Ctrl+F6 to exit CLI focus'. To the right of the status bar are two buttons: 'Copy' and 'Paste'.

The screenshot shows the Syslog application window. The 'Services' tab is active, and 'SYSLOG' is selected in the left-hand menu. The Syslog service is currently 'On'. The log table shows the following entries:

	Time	HostName	Message
1	10.03.2023 06:38:57.818 PM	10.0.1.1	%LINEPROTO-5-UPDOWN: Line protoc...
2	10.03.2023 06:38:57.818 PM	10.0.1.1	%LINK-5-CHANGED: Interface Loopba...
3	10.03.2023 06:36:48.851 PM	10.0.1.1	%SYS-5-CONFIG_: Configured from console by console

A 'Clear Log' button is located at the bottom right of the log display area.

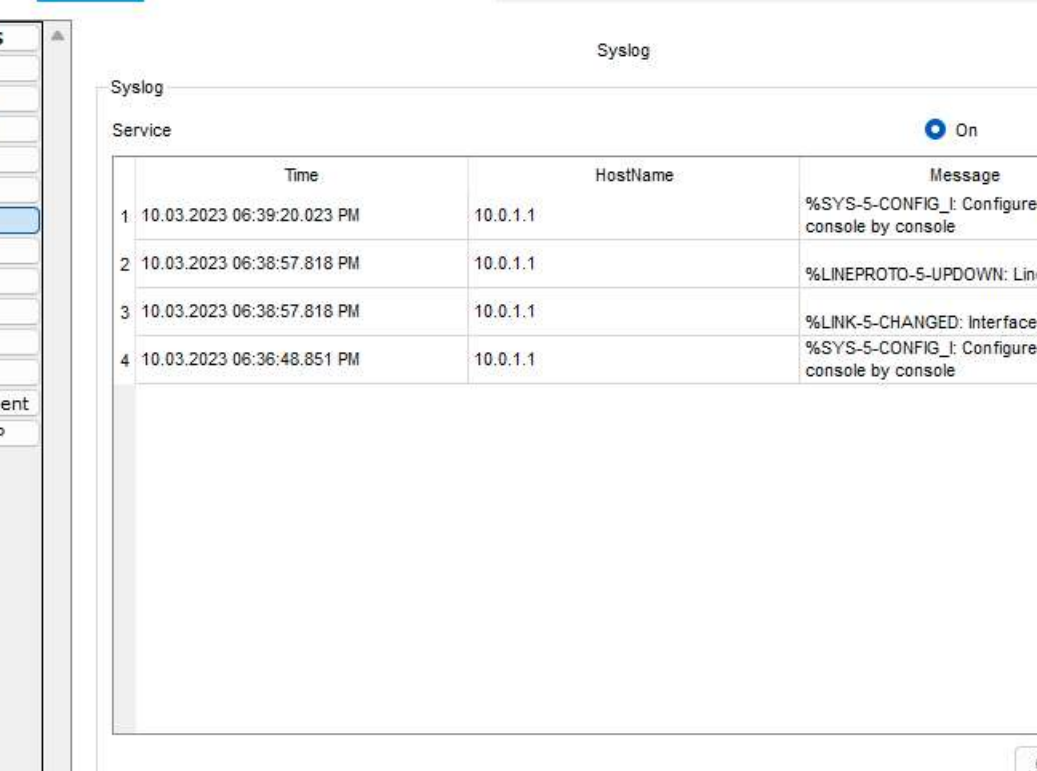


```
!
!
!
!
!
spanning-tree mode pvst
!
!
!
!
!
interface Loopback0
no ip address
!
interface GigabitEthernet0/0
no ip address
duplex auto
speed auto
shutdown
!
interface GigabitEthernet0/1
ip address 10.0.1.1 255.255.255.0
duplex auto
speed auto
!
interface GigabitEthernet0/2
ip address 10.0.2.1 255.255.255.0
duplex auto
speed auto
```

Ctrl+F6 to exit CLI focus

Copy Paste

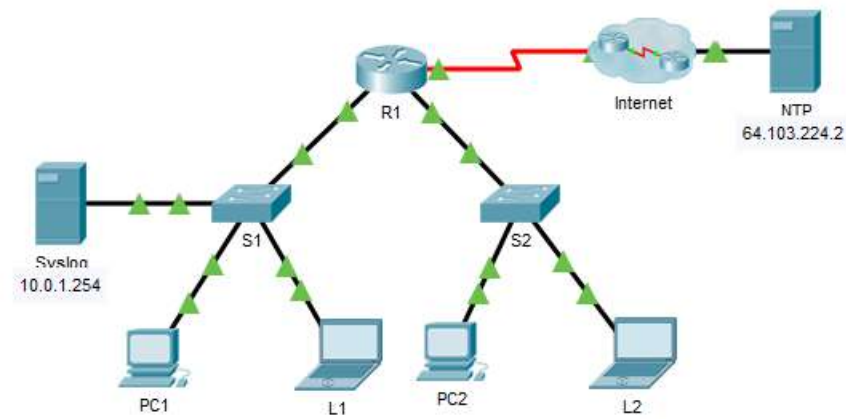
Top



The screenshot shows the 'Syslog' configuration window. The 'Services' tab is active, displaying a list of services on the left sidebar. The 'SYSLOG' service is selected and highlighted. In the main area, the 'Syslog' service is configured with the 'On' radio button selected. Below the service status, a table displays log entries.

	Time	HostName	Message
1	10.03.2023 06:39:20.023 PM	10.0.1.1	%SYS-5-CONFIG_t: Configured from console by console
2	10.03.2023 06:38:57.818 PM	10.0.1.1	%LINEPROTO-5-UPDOWN: Line protoc...
3	10.03.2023 06:38:57.818 PM	10.0.1.1	%LINK-5-CHANGED: Interface Loopba...
4	10.03.2023 06:36:48.851 PM	10.0.1.1	%SYS-5-CONFIG_t: Configured from console by console

A 'Clear Log' button is located at the bottom right of the log entries table.



```
trunk          Show interface trunk information
|              Output Modifiers
<cr>

NikishaevR1#show interfaces L
NikishaevR1#show interfaces Loopback
% Incomplete command.
NikishaevR1#show interfaces Loopback 0
Loopback0 is up, line protocol is up (connected)
  Hardware is Loopback
  MTU 1514 bytes, BW 8000000 Kbit, DLY 5000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation LOOPBACK, loopback not set
  Keepalive set (10 sec)
  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 0/0, 0 drops; input queue 0/75, 0 drops
  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 abort
    0 input packets with dribble condition detected
    0 packets output, 0 bytes, 0 underruns
    0 output errors, 0 collisions, 1 interface resets
    0 unknown protocol drops
    0 output buffer failures, 0 output buffers swapped out

NikishaevR1# |
```

The screenshot shows the Syslog configuration window. The 'Services' tab is active, and 'SYSLOG' is selected in the left-hand menu. The Syslog service is currently 'On'. A table displays the following log entries:

	Time	HostName	Message
1	10.03.2023 06:39:20.023 PM	10.0.1.1	%SYS-5-CONFIG_1: Configured from console by console
2	10.03.2023 06:38:57.818 PM	10.0.1.1	%LINEPROTO-5-UPDOWN: Line protoc...
3	10.03.2023 06:38:57.818 PM	10.0.1.1	%LINK-5-CHANGED: Interface Loopba...
4	10.03.2023 06:36:48.851 PM	10.0.1.1	%SYS-5-CONFIG_1: Configured from console by console

A 'Clear Log' button is located at the bottom right of the log display area.

File Edit Options View Tools Extensions Help

Logical

Physical

10:21:30

10:21:30

Syslog

10.0.1.254

R1

Internet

NTP

64.103.224.2

S1

S2

PC1

L1

PC2

L2

Physical

Config

Desktop

Programming

Attributes

Physical Device View

Zoom In

Original Size

Zoom Out

WPC300N

PT-LAPTOP-NM-1AM

PT-LAPTOP-NM-1CE

PT-LAPTOP-NM-1CFE

PT-LAPTOP-NM-1CGE

PT-LAPTOP-NM-1FFE

PT-LAPTOP-NM-1FGE

PT-LAPTOP-NM-1W

PT-LAPTOP-NM-1W-A

PT-LAPTOP-NM-1W-AC

PT-LAPTOP-NM-3G/4G

PT-HEADPHONE

PT-MICROPHONE

The Linksys-WPC300N module provides one 2.4GHz wireless interface suitable for connection to wireless networks. The module supports protocols that use Ethernet for LAN access.

Customize Icon in Physical View

Customize Icon in Logical View

Top

Physical

Config

Desktop

Programming

Attributes

Physical Device View

Zoom In

Original Size

Zoom Out

WPC300N

PT-LAPTOP-NM-1AM

PT-LAPTOP-NM-1CE

PT-LAPTOP-NM-1CFE

PT-LAPTOP-NM-1CGE

PT-LAPTOP-NM-1FFE

PT-LAPTOP-NM-1FGE

PT-LAPTOP-NM-1W

PT-LAPTOP-NM-1W-A

PT-LAPTOP-NM-1W-AC

PT-LAPTOP-NM-3G/4G

PT-HEADPHONE

PT-MICROPHONE

The Linksys-WPC300N module provides one 2.4GHz wireless interface suitable for connection to wireless networks. The module supports protocols that use Ethernet for LAN access.

Customize Icon in Physical View

Customize Icon in Logical View

Top

Physical

Config

Services

Desktop

Programming

Attributes

Syslog

Service

On

Off

	Time	HostName	Message
1	10.03.2023 06:39:53.469 AM	10.0.2.2	%LINEPROTO-5-UPDOWN: Line protoc...
2	10.03.2023 06:39:53.469 AM	10.0.2.2	%LINK-3-UPDOWN: Interface FastEthe...
3	10.03.2023 06:40:06.836 AM	10.0.1.2	%LINEPROTO-5-UPDOWN: Line protoc...
4	10.03.2023 06:40:06.836 AM	10.0.1.2	%LINK-3-UPDOWN: Interface FastEthe...
5	10.03.2023 06:39:20.023 PM	10.0.1.1	%SYS-5-CONFIG_I: Configured from console by console
6	10.03.2023 06:38:57.818 PM	10.0.1.1	%LINEPROTO-5-UPDOWN: Line protoc...
7	10.03.2023 06:38:57.818 PM	10.0.1.1	%LINK-5-CHANGED: Interface Loopba...
8	10.03.2023 06:36:48.851 PM	10.0.1.1	%SYS-5-CONFIG_I: Configured from console by console

Clear Log

Top

Realtime

Simulation

(Select a Device to Drag and Drop to the Workspace)

14°C Cloudy

Search

6:41 PM 10/3/2023

File Edit Options View Tools Extensions Help

Logical

Physical

x: 770, y: 313

L1

Physical Config Desktop Programming Attributes

Physical Device View

Zoom In Original Size Zoom Out

Customize Icon in Physical View Customize Icon in Logical View

The Linksys-WPC300N module provides one 2.4GHz wireless interface suitable for connection to wireless networks. The module supports protocols that use Ethernet for LAN access.

Top

L2

Physical Config Desktop Programming Attributes

Physical Device View

Zoom In Original Size Zoom Out

Customize Icon in Physical View Customize Icon in Logical View

The Linksys-WPC300N module provides one 2.4GHz wireless interface suitable for connection to wireless networks. The module supports protocols that use Ethernet for LAN access.

Top

Syslog

Physical Config Services Desktop Programming Attributes

Syslog

Service On Off

	Time	HostName	Message
1	10.03.2023 06:40:05.825 AM	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
2	10.03.2023 06:40:05.825 AM	10.0.2.2	%LINK-5-CHANGED: Interface FastEt...
3	10.03.2023 06:40:17.976 AM	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
4	10.03.2023 06:40:17.976 AM	10.0.1.2	%LINK-5-CHANGED: Interface FastEt...
5	10.03.2023 06:39:53.469 AM	10.0.2.2	%LINEPROTO-5-UPDOWN: Line proto...
6	10.03.2023 06:39:53.469 AM	10.0.2.2	%LINK-3-UPDOWN: Interface FastEth...
7	10.03.2023 06:40:06.836 AM	10.0.1.2	%LINEPROTO-5-UPDOWN: Line proto...
8	10.03.2023 06:40:06.836 AM	10.0.1.2	%LINK-3-UPDOWN: Interface FastEth...
9	10.03.2023 06:39:20.023 PM	10.0.1.1	%SYS-5-CONFIG_: Configured from console by console
10	10.03.2023 06:38:57.818 PM	10.0.1.1	%LINEPROTO-5-UPDOWN: Line proto...
11	10.03.2023 06:38:57.818 PM	10.0.1.1	%LINK-5-CHANGED: Interface Loopb... %SYS-5-CONFIG_: Configured from

Clear Log

Top

Lightshot

Lightshot

Screenshot is saved to Screenshot_22.png. Click here to open in the folder.

14°C Cloudy

Search

6:41 PM 10/3/2023

Time Elapsed: 00:59:16

Overall Feedback Assessment Items Connectivity Tests

Expand/Collapse All Show Incorrect Items

Score	: 100/100	
Item Count	: 9/9	
<hr/>		
Component	Items/Total	Score
NTP Configuration	3/3	40/40
Syslog Configuration	6/6	60/60