



► Pour
Commencer

► Week 0:
Introduction to
Network and
Service
Management

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Concepts with
SNMP

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Monitoring
with Nagios

► Week 3:
Instrumentation
with JMX

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Generation
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Overview of the
Content

Lecture 1:
NETCONF 1/2 -
Overview and
YANG

Lesson_Quiz



Lecture 2:
NETCONF 2/2 -

PART B (W4_PE1B): CONFIGURATION

The server has announced the capability ietf-system, whose you can find the specification at : <https://tools.ietf.org/html/rfc7317>.

Get the running-configuration with the command get-config. You can type **get-config** and then you will be prompted which configuration you want to retrieve. The NETCONF server returns the full running configuration.

QUESTION W4.PE1B.1 (1/1 point)

Get the running-configuration manually

Use now the **user-rpc** command to create your own RPC. A vi editor will appear when you can enter the RPC content (without tags).

Complete the following RPC command :

<get-config>

<source>

<running/>



</source>

</get-config>

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QUESTION W4.PE1B.2 (1/1 point)

Get only the configuration elements of ietf-system using **user-rpc** command as follows :

En cliquant sur « J'accepte », vous activez un cookie uniquement destiné à la mesure d'audience.

> En savoir plus

J'accepte

Lecture 3: Flow Monitoring with IPFIX/NetFlow

Lesson_Quiz



Lecture 4: Software-Defined Networking

Lesson_Quiz



Practical Exercise 1: NETCONF

Practical_Exercise_Quiz

Practical Exercise 2: OpenFlow

Practical_Exercise_Quiz

Evaluations

Week_Evaluation

Echéance le avril 10, 2022 at 22:00 UTC



Aidez-nous à améliorer ce MOOC

► Votre avis nous intéresse

```
<filter type="subtree">
```

```
<system xmlns="urn:ietf:params:xml:ns:yang:ietf-system"/>
```

```
</filter>
```

```
</get-config>
```

Try then without the xmlns attribut.

Why is it not necessary to specify the xml namespace

xmlns="urn:ietf:params:xml:ns:yang:ietf-system" (NA=1) ?

☐ System is a reserved configuration variable.

☒ System is a node element only defined in ietf-system specification. ✓

☐ The mentioned namespace is wrong.

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- You can retrieve the same data with the command **get-config** from client interface (without rpc-user). You have to use the --filter argument and you will be then prompted for a subtree filter (the XML content embedded in <filter> </filter> without these tags).
- Before modifying the configuration, check your current timezone in a separate terminal with the command **date**. Copy the current configuration into the candidate version (with the NETCONF client) : **copy-config --source running candidate**

QUESTION W4.PE1B.3 (2/4 points)

We want to change timezone to America/New_Yorque with **user-rpc**.

Complete the following command :

```
<edit-config>
```



```
<target><candidate/> </target>
```

```
<config>
```

```
<system xmlns="urn:ietf:params:xml:ns:yang:ietf-system">
```

```
<timezone>
```



```
America/New_York
```

```
</timezone>
```



```
</system>
```

```
</config>
```

```
</edit-config>
```



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QUESTION W4.PE1B.4 (1/1 point)

Check the current timezone on your computer (**date** command on a separate terminal).

What is your conclusion? (NA=1)

☐ The timezone has been properly changed and the time has been adjusted.

☐ The timezone has been properly changed but the time remains the same.

☒ The timezone has not been changed because the new configuration has not been set in the computer.

- ☐ The timezone has not been changed because the America/New_Yorque timezone does not exist.

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QUESTION W4.PE1B.5 (1/1 point)

Validate the configuration with the command **validate** in the NETCONF client terminal.

Do you have an error? (NA=1)

- ☐ No, so I can now apply my new configuration. it will surely works.

- ☒ No, so I can now apply my new configuration but it may work without sucess. ✓

- ☐ Yes, I should first correct the error.

- ☐ Yes, it is only a warning.

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QUESTION W4.PE1B.6 (1/1 point)

Use **commit** command to commit the candidate configuration.

What is the problem? (NA=1)

- ☐ The configuration format is invalid.

- ☒ The timezone name is invalid. ✓

- ☐ You do not have the permission to change system configuration.

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QUESTION W4.PE1B.7 (1/1 point)

Correct your previous RPC command and check if you finally change the timezone to New_York (with the command date in another terminal)

What is the time zone abbreviation (3 letters)

EST



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QUESTION W4.PE1B.8 (1/1 point)

What configuration can be applied? (NA=2)

☒ Changing the hostname

☐ Changing the operating system name

☒ Specifying DNS servers

☐ Changing current date and time



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