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**Exam :** JN0-224

**Title :** Automation and DevOps,  
Associate (JNCIA-DevOps)

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1.Which statement is correct about DevOps?

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## Juniper JN0-224 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Rest API: This domain covers Junos REST API implementation, REST API Explorer tool, and cURL usage for HTTP-based device management and configuration.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• NETCONF</li> <li>• XML API: This domain focuses on XML syntax, XPath expressions, NETCONF protocol, and XML API functionality for programmatic device configuration and communication.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• Data Serialization: This domain addresses YAML and JSON formats used for structured data representation and exchange in network automation workflows.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• Python</li> <li>• PyEZ: This domain examines Python programming with PyEZ library for Junos automation, including JSNAPy, Jinja2 templates, RPC calls, exception handling, and device configuration management.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• Junos Automation Stack and DevOps Concepts: This domain covers fundamental automation tools, frameworks, APIs, and DevOps culture applicable to Junos platform operations and network management.</li> </ul>

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## Juniper Automation and DevOps, Associate (JNCIA-DevOps) Sample Questions (Q42-Q47):

### NEW QUESTION # 42

Which two statements are correct about a Python dictionary data type? (Choose two.)

- A. The data contained in a dictionary data type is a key/value pair.
- B. The data stored in a dictionary data type is not sequenced or indexed.
- C. The data stored in a dictionary data type is sequenced and indexed.
- D. The data contained in a dictionary data type cannot be removed once the dictionary has been created.

**Answer: A,B**

Explanation:

A Python dictionary is a data type that stores data in the form of key/value pairs. It has the following characteristics:

Key/Value Pair (C): Each entry in a dictionary is a pair consisting of a unique key and a value. The key is used to access the corresponding value.

Not Sequenced or Indexed (D): Unlike lists or tuples, dictionaries do not maintain order for their entries (in versions prior to Python 3.7). Even though Python 3.7+ maintains insertion order, dictionaries are not considered indexed or sequenced in the traditional sense like lists, where elements are accessed via positional index.

Option A is incorrect because dictionary entries can be added, modified, or removed after the dictionary is created. Option B is incorrect because dictionaries are not accessed by a numeric index but rather by their keys.

Reference:

Python Official Documentation: Details the nature of dictionaries, including their mutability and key/value structure.

Python Data Structures Guide: Explains dictionary operations and characteristics.

### NEW QUESTION # 43

Which data construct is used to guarantee that element names and data values remain unique in an XML document?

- A. element
- B. namespace

- C. schema definition
- D. dictionary

**Answer: B**

Explanation:

In XML documents, a namespace is the data construct used to ensure that element names and data values remain unique.

Namespaces prevent naming conflicts by differentiating between elements or attributes that may have the same name but different meanings. This is particularly important in XML, where documents often incorporate elements from multiple sources.

Detailed Explanation:

XML Namespaces: A namespace is a collection of names, identified by a URI reference, which is used to distinguish between elements that may have identical names but different definitions or origins. This helps avoid ambiguity in the document.

How Namespaces Work: When a namespace is applied, each element or attribute in the XML document is associated with a prefix. This prefix, combined with the namespace URI, ensures that the element or attribute is uniquely identified, even if another element or attribute in the same document has the same local name but a different namespace.

Schema Definition vs. Namespace: Although an XML schema definition (XSD) can define the structure and type constraints of an XML document, it does not guarantee uniqueness of element names across different XML documents. That role is fulfilled by namespaces.

Practical Example:

xml

Copy code

```
<root xmlns:ns1="http://www.example.com/ns1"
xmlns:ns2="http://www.example.com/ns2">
<ns1:item>Item in namespace 1</ns1:item>
<ns2:item>Item in namespace 2</ns2:item>
</root>
```

In this example, the item elements are in different namespaces (ns1 and ns2), which keeps them unique even though they have the same name.

Reference:

Juniper Automation and DevOps Documentation: These practices highlight the importance of namespaces in XML documents to maintain the integrity and uniqueness of data, which is essential in automation scripts and configuration files.

W3C XML Namespace Specification: The World Wide Web Consortium (W3C) standard for XML Namespaces defines how namespaces should be used to avoid name conflicts.

Namespaces are a crucial concept in XML, ensuring that data can be consistently managed and interpreted correctly, particularly in complex systems where multiple XML documents or schemas are involved.

## NEW QUESTION # 44

What is the correct Python script syntax to prompt for input?

- A. `hostIP = input{Device IP address: }`
- B. `hostIP = input("Device IP address: ")`
- C. `hostIP = input"Device IP address: "`
- D. `input("Device IP address: ") = hostIP`

**Answer: B**

Explanation:

In Python, the correct syntax to prompt the user for input and store that input in a variable is:

`input(prompt)`: The `input()` function is used to take input from the user. The string provided as an argument (inside the parentheses) is displayed as a prompt to the user. The input provided by the user is returned as a string and can be stored in a variable.

Example:

```
hostIP = input("Device IP address: ")
```

In this example, "Device IP address: " is the prompt displayed to the user, and the user's input will be stored in the variable `hostIP`.

Options B, C, and D are syntactically incorrect in Python.

Reference:

Python Official Documentation: Describes the use of the `input()` function for getting user input.

Python Tutorials: Various tutorials demonstrate how to properly use the `input()` function in scripts.

## NEW QUESTION # 45

Which Junos configuration database is updated by PyEZ by default?

- **A. private**
- B. dynamic
- C. shared
- D. ephemeral

**Answer: A**

Explanation:

An event script is used to automate responses to system events in Junos, such as an interface going down. These scripts are triggered automatically when a specified event occurs, making them suitable for tasks like monitoring interface status and executing actions when the status changes.

Option B (event) is correct because event scripts are designed for reacting to system events like an interface going down.

Option A (commit) is used for configuration changes, Option C (operation) is used for operational tasks, and Option D (SNMP) is not applicable in this context.

Supporting Reference:

Juniper Networks Event Scripts Documentation: Details how event scripts are used to automate responses to specific system events in Junos

#### NEW QUESTION # 46

You must use Junos PyEZ to configure unique IP addresses on individual machines.

Which two features will permit this requirement? (Choose). I an SCP module

- A. a BSON data file
- **B. a Jinja2 template**
- C. an SCP module
- **D. a YAML data file**

**Answer: B,D**

Explanation:

To configure unique IP addresses on individual machines using Junos PyEZ, you can use the following features:

YAML Data File (C): YAML files are used to store configuration data in a human-readable format. They are often used in combination with Jinja2 templates to provide the data necessary for template rendering.

Jinja2 Template (D): Jinja2 is a templating engine for Python that allows you to create dynamic templates. When used with Junos PyEZ, a Jinja2 template can be filled with data (such as IP addresses from a YAML file) to generate configuration snippets that are applied to different devices.

Options A (SCP module) and B (BSON data file) are not typically used with Junos PyEZ for this purpose.

Reference:

Junos PyEZ Documentation: Discusses the use of YAML files and Jinja2 templates for generating configurations.

Jinja2 Templating Documentation: Provides details on how to create and use templates in Python scripts.

#### NEW QUESTION # 47

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