



CCIE DevNet v1.0 Real Labs

Design Module

Scenario 1 - Perpetual Motion Machines Limited

Lab Workbook Policy

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12. We do not provide Refund in any circumstances once the product is sold.
13. The most Updated deploy workbooks are given 30 days before the Exam. Exam booking is manually verified using remote desktop.
14. If there is any update, one will receive the update automatically on their respective skype id.
15. Design Module will be given only 15 days before the CCIE exam.
17. CCIE Labs are always published in phases. For e.g. if there is a new lab we publish it as First, Second, Third ... till Final release.
18. Client who have purchased our worbooks and services and wishes to attempt the lab, need to consult our experts before their CCIE Lab.

CCIE Design Guidelines

Before starting, please read the below guidelines:

1. In this module, you will be creating, analyzing, validating and optimizing a low-level network design. All relevant resources needed to successfully complete this module are provided within this module.
2. The menu bar on the main screen can be used to navigate to:
 - a) **Exam content.** Here you will find the exam questions. This module is scenario-based and contains about 30 to 35 web-based items. No device access is provided.
 - b) **Resources.** Here you will find provided resources. An initial set of resources is provided at the start of the module. Additional resources are provided as you progress. Resources are cumulative and remain available throughout the remainder of the module. It is recommended to read all the provided resources prior to answering a question.
 - c) **Guidelines.** If you want to review this guideline again during your exam, you can find them here.
 - d) **Help.** Here you will find more information about the exam environment and functionalities.
 - e) **End Exam Section.** Clicking this button will end this exam section
3. Backward navigation in this module is disabled; once you proceed to the next question, you will not be able to return to the previous question
4. Question point values will not be visible in this module. More complex items may have partial scoring opportunities
5. Item level feedback can be provided at question level. Feedback will be processed, but Cisco will not reach out to you to discuss any feedback provided. Any time spent on providing feedback will not be compensated.
6. Access to selected Cisco online documentation is available from your desktop. Access to select 3rd party product documentation (such as python) is available from the resources window under the "External Documentation" category.
7. If you suspect an issue with your exam environment, contact the lab proctor as soon as possible.
8. You have 3 hours to complete this module. If you finish early, you may start with the next module but any unused time will not be carried over to the next module.

Background Information

Welcome Expert

You are a senior network automation engineer for Perpetual Motion Machines Limited (PPM). The network automation team reports to the Director of Infrastructure Services, is led by Jessica Danvers, and includes a junior automation engineer named Sara Stone.

Your primary role on the team is designing the automation projects brought to your team to support the efforts by other IT groups within PPM. Your work involves tasks such as:

- making design decisions and tools selections, and building prototype code for future projects
- assisting other members of the team with code reviews, mentoring, and solving challenging problems
- completing development work and projects assigned directly to you

The work of the network automation team often supports the network engineering and operations teams. Carl Bastile is the network architect at PPM. He often provides network configurations, engineering details, and design requirements for projects. Mary O'Connell is the operations manager, and originally she was reluctant to leverage the network automation team. However, recent joint projects have shown her the value that automation can bring to improving the reliability of the network.

Throughout the exam, you will be provided with information about projects or requests for assistance from Jessica, Sara, Carl, or Mary. These requests come in the form of email messages, chat interactions, or call transcripts.

Detail about the Network and Infrastructure at Perpetual Motion Machines Limited

The network and infrastructure of Perpetual Motion Machines Limited (PPM) are typical for a large, global company.

Though the company has embraced cloud, including public cloud, as part of the overall IT strategy, data centers must be maintained. These data centers are undergoing architectural and engineering update to allow them to function as a private cloud.

PPM has locations in many countries around the globe. Locations range from small offices with between 2-10 employees, up to large regional headquarters that could have several hundred employees working daily. To connect these locations together, as well as to the data center and cloud resources. PPM has deployed a software-defined WAN solution.



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Many employees of PPM sometime work remotely by using a client VPN technology to join the network.

Type of Projects/Work Completed by the Network Automation team

You and the network automation team work on a variety of projects and use cases. Some examples you might see include.

- "Day 0" Infrastructure Provisioning
- "Day 1" Configuration Management
- "Day n" Ongoing Operations Tasks
- Application Deployment Support

Question no. 1

Refer to the new resource(s) available.

Which four modifications to Jessica's backup utility would you implement to meet her requirements?
(Choose four.)

- Leverage the Python asyncio library to support backing up multiple devices concurrently
- Update the Python environment used for the backup tool to Python 3 and run the script as is to migrate code.
- Add an optional argument to the script for "--device" to limit backups jobs ran to just identified devices
- Compare the checksum from the last stored backup to the latest one before saving to disk.
- Use 2to3 to automatically update the script source code to support Python 3 syntax.
- Split the network inventory into four pieces, and run an instance of the backup script for each piece.
- Check the configuration last modified time on a device, and skip if there has been no change since the last successful backup.

Answer:



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