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You were signed in with a different tab or window, causing your session to reload. The same thing happened when you switched accounts on another tab or window. Dismiss that alert! Instantly share code snippets and notes by cloning this repository: `<script src=""></script>`. You can't perform that action right now. xSorry to interruptCSS Error The content in this post is intended for educational purposes only, respecting all software rights belonging to their respective owners. The Cisco IOSv and IOSv L2 devices are considered a standard for learning Cisco routing and switching within a virtual network environment. They're light on resource usage but packed with features. Requirements# You need a Cisco Modeling Labs subscription. GNS3 must be installed on macOS, specifically designed for Apple Silicon. # Point your web browser to the CML Software Download page. Click the Download icon for the Cisco Modeling Labs reference platform ISO file (February 2024). Log in with your Cisco.com credentials when prompted. Save the refplat-20240225-fcs-iso.zip file to your Downloads folder. Open a terminal emulator, change directories to Downloads, and create a new directory called cml27-refplat. Uncompress the refplat-20240225-fcs-iso.zip file into that directory. Attach the refplat-20240225-fcs.iso file. Create another directory for QEMU and copy the IOSv L2 image there. Detach the REFPLAT image file from Finder. GNS3# Open the GNS3 client application. Click Cancel to close the Project window. IOSv L2# Menu: File → New template Select Install an appliance from the GNS3 server (recommended). Click Next, then click Update from online registry. Enter iosv in the Filter field and select Cisco IOSvL2. Click Install, then Next. Choose /usr/bin/qemu-system-x86_64 for the QEMU binary value. Select the vios_l2-adventerprisek9-m.ssa.high_iron_20200929.qcow2 entry, which should be detected automatically from ~/GNS3/images/QEMU. Click Yes to install. IOSv# Menu: File → New template Select Install an appliance from the GNS3 server (recommended). Click Next. Enter iosv in the Filter field and select Cisco IOSv. Click Install, then Next. Choose /usr/bin/qemu-system-x86_64 for the QEMU binary value. Download the IOSv startup config.img file to ~/GNS3/images/QEMU. Refresh the list, then select the IOSv version 15.9(3)M8 entry. Click Yes to install. To utilize GNS3 without the need for actual hardware, you'll require specific files such as the vIOS-L2 image. This image functions like Cisco IOS, acting as a Virtual IOS-Layer 2 device. The device enables users to save money by not needing to purchase an actual Layer 2 Switch. # Features of Virtual IOS-Layer 2 Device This image serves as a Layer 2 switch, mirroring the functionality of Cisco's devices. Key features include: - **Layer 2 Switch**: It functions similarly to a Cisco Layer 2 device, handling tasks like learning MAC addresses and sending frames. - **VLAN Support**: Users can create virtual local networks and communicate between them using VLAN routing. - **Spanning Tree Protocols**: vIOS-L2 supports Spanning Tree protocols, allowing users to test and prevent loops in their virtual network. # Downloading and Uploading the vIOS-L2 Image To use the vIOS-L2 image in GNS3 software, you can download it from a reliable source. The process involves adding the virtual images to the program, which helps save money by eliminating the need for actual hardware. Step 1: Adding the vIOS-L2.vmdk File Firstly, you'll import the downloaded file into GNS3 software. This is achieved by going to the QemuVMs settings under Edit > Preferences. Step 2: Configuring the Network To set up a network using GNS3 and vIOS-L2, you must add the number of adapters on your switch. The correct configuration ensures that the network functions as intended. Additional Information # EVE Image Folder Name When naming folders for the EVE image, it's essential to include the version or name of the image. For example, a router folder name might be vios-15.6.2T and a switch node name could be viosl2-15.2.adventerprise. # Obtaining Current Images from CML Current images of vIOS can be obtained directly from Cisco CML 2.5 refplat_p-20230117-fcs.iso or other supported versions by following specific procedures. These images are available for download through the CML account holder's location, requiring a valid Cisco CCO account associated with CML. # Loading vIOS in EVE Loading vIOS into the EVE requires SSH access and creating an image directory on the EVE's /opt/unetlab/addons/qemu. The process involves renaming the original filename to virtioa.qcow2, then uploading it using FileZilla or WinSCP. # Final Steps The final steps involve fixing permissions and ensuring that the image is correctly configured for use in GNS3 software.Naming inside folders follows our naming table. This video explains how to add Cisco CML qemu images in EVE, focusing on network creation with GNS3 and vIOS-L2. To use GNS3 effectively, specific files like the vIOS-L2 image are necessary, as it emulates a Cisco Layer 2 Switch device, allowing users to save money by not needing an actual switch. The vIOS-L2 image has a VMDK extension, mimics Cisco's Layer 2 devices, and supports features like Command-Line Interface (CLI), Spanning Tree, Link Aggregation, EtherChannel, quality of service, and multicast. It also allows for port security and protocols like HSRP or VRRP. The pros of using vIOS-L2 include its ability to create VLANs, work with the GNS3 emulator program, and provide a cost-effective solution for education and training. However, it lacks full support for Layer 3 routing features. To use vIOS-L2, you can download the vmdk file, extract it, and import it into GNS3. This virtual device is useful for preparing for CCNA Switching exams and can simulate various network scenarios, but for more advanced CCNP material, Cisco IOU is recommended. =====vIOS-L2, dey need diffnt tingz depend on ur computaz strength. If ur PC got good power, u can creat more complicate setups. But, to use dis device well, u need at leas 8 GB RAM. U can us vIOS-L2 for free, but u gotta check da licensng rules from Cisco. D newer ones need Cisco account and lisenz. But, people ofen us oldz versnz in skoolz. U shud get vIOS-L2 for GNS3, it helpe both begginerz and profesionalz. U can practis in virtul environment insted of buyin real equipment. Dis will help u lern how to set up networking deviz, and u can becom good at networking ovr tim!!!

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