

GNS3:

Graphical Network Simulator-3 is a network software emulator first released in 2008. It allows the combination of virtual and real devices, used to simulate complex networks. GNS3 is used by hundreds of thousands of network engineers worldwide to emulate, configure, test and troubleshoot virtual and real networks. GNS3 allows you to run a small topology consisting of only a few devices on your laptop, to those that have many devices hosted on multiple servers or even hosted in the cloud. GNS3 is open source, free software that you can download. It is actively developed and supported and has a growing community of over 800,000 members. GNS3 has allowed network engineers to virtualize real hardware devices for over 10 years. Originally only emulating Cisco devices using software called Dynamips, GNS3 has now evolved and supports many devices from multiple network vendors including Cisco virtual switches, Cisco ASAs, Brocade vRouters, Cumulus Linux switches, Docker instances, HPE VSRs, multiple Linux appliances and many others.

<https://gns3.com/marketplace/appliances>

GNS3 supports the following operating systems:

Windows 7 (64 bit)

Windows 8 (64 bit)

Windows 10 (64 bit)

Windows Server 2012 (64 bit)

Windows Server 2016 (64 bit)

Mac OS X.

Linux

ITEM	REQUIREMENT
Processor	2 or more Logical cores
Virtualization	Virtualization extensions required. You may need to enable this via your computer's BIOS.
Memory	4 GB RAM
Storage	1GB available space (Windows Installation is < 200MB).
Additional Notes	You may need additional storage for your operating system and device images.



EVE NG:

Emulated Virtual Environment – Next Generation (EVE-NG) is a multi-vendor virtual network simulator that, similar to VIRL. They offer a free Community Edition as well as a Professional Edition. EVE-NG was evaluated using version 2.0.3-95 in a virtual machine with 16GB of memory and 4 vCPUs. The Community Edition of EVE-NG is completely free, and more than enough to prepare for the CCNP. There are two big differences between the Community Edition and the Professional Edition of EVE-NG: The Community Edition has a 63-node limit per lab which is even enough for the CCIE. EVE-NG is a network emulator which allows you to import various devices into a virtual topology that you can configure.

