

LENOVO RACKSWITCH NE1032 AND NE1032T

GETTING STARTED WITH HC3

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INTRODUCTION

This guide provides general configuration examples. The configurations found here may not be applicable for all environments. Consult Lenovo's official documentation for further information in regards to your environment's unique configuration.

REQUIREMENTS

- This guide was written for CNOS version 10.8.1.0. Referenced commands may not always be accurate depending on the firmware version.
- The switch should be racked, cabled, and powered on.
- The included micro-USB adapter to serial adapters for a serial connection to a workstation with a terminal program for initial setup.

Use Device Manager (in Windows, or its equivalent in other operating systems) to determine the COM port for access through the terminal program.

ACCESS THE SWITCH

NOTE

The following steps may not be applicable for all switch software versions and are provided as-is for general recommendations. Scale Computing does not monitor or maintain third party products. Contact Lenovo for advanced switch configuration tasks.

Configuration will be handled through the serial console and a terminal program. The management network should be separated from any data networks. The username is admin and the password is admin. **VLAN 1 is utilized as the default network in the sample commands below.**

```
# enable
# configure device
(config)# interface mgmt 0
(config-if)# ip address <IP>
(config-if)# ip netmask <NETMASK>
(config-if)# vlan 1
(config-if)# exit
(config)# exit
# exit
```

The switch is now accessible via HTTP, telnet, ssh, or other remote protocol available on the network and configuration can continue there.

Ensure your switch is running the latest firmware. Firmware can be [downloaded from the Lenovo website using the search tool](#).

GENERAL CONFIGURATION

This is a general reference point for the expected switch configuration. See the complete Lenovo documentation in the [Resources](#) section.

1. Assign the LAN ports to default native VLAN, VLAN 1, or create a new VLAN to match the network's default traffic if it differs. Ports assigned to the LAN VLAN should be Trunk Ports.
 - a. **Trunk Mode is used when an interface needs to carry multiple VLANs.** It is necessary to tag additional VLANs if VMs need access to any VLANs other than what the Scale Computing node itself resides upon. Trunk Mode configuration is less explicit than Hybrid Mode.
 - b. **All ports are set to Access mode for VLAN 1 by default.** If VLANs are not utilized in the environment, it is not necessary to configure the LAN network further.
2. Create a new Backplane VLAN with a unique VLAN ID separate from anything else in the network topology. Ports assigned to the Backplane VLAN should be Access Ports.
 - a. If using two switches, set up an interconnect port between the two switches on the same unique Backplane network VLAN ID. **DO NOT** forget to disable Spanning Tree Protocol on the chosen port to prevent a network loop.
3. It is optional if Flow Control is enabled or not, but it is generally recommended to enable it.
4. Configure an uplink port to the local network using a Trunk Port(s) that **DOES NOT** include the assigned Backplane VLAN ID. Backplane traffic should never be accessible on the network.
5. Spanning Tree may or may not need to be disabled to function without network issues in the local environment. Most often it is necessary to disable it, but Rapid STP (used by default) may be functional for the environment..
6. Use the command `copy run start` to save the running configuration to the startup configuration and finalize the changes.

RESOURCES

LENOVO

- [Lenovo ThinkSystem NE1032 RackSwitch Installation Guide](#)
- [Lenovo ThinkSystem NE1032T RackSwitch Installation Guide](#)

FEEDBACK & SUPPORT

DOCUMENT FEEDBACK

Scale Computing welcomes your suggestions for improving our documentation. Please send your feedback to documentation@scalecomputing.com.

TECHNICAL SUPPORT AND RESOURCES

There are many technical support resources available for use. Access this document, and many others, at <http://www.scalecomputing.com/support/login/>.

Online Community

Scale Computing has an online forum and community! This is a great medium in which to solicit the advice of your peers, benefit from their experience, find and discuss documentation, and participate in ongoing conversations. Please note this community is not intended to provide ScaleCare Support assistance or replace other Scale Computing communication channels. Find the Scale Legion HC3 Discussion Forum at <https://scalelegion.community>.

Online Support

You can submit support cases and view account information online through the Scale Computing Customer and Partner Portals at <http://www.scalecomputing.com/support/login/>. You can also Live Chat with support through www.scalecomputing.com during standard hours Monday-Friday from 8-8 local time.

Telephone Support

Support is available for critical issues 24/7 by phone at +1 877-SCALE-59 (+1 877-722-5359) in the US and at +44 (0) 808 234 0699 in Europe. Telephone support is recommended for the fastest response on priority issues, and the only response after standard Support hours.