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NetGain Network Configuration Management

The network has become an integral part of an enterprise. The rapid growth in networks has created a need for greater network performance and manageability. The cloud, new apps, mobile, and IoT are among the technologies driving the growth of networks. In this landscape of rapidly advancing technology, businesses must find ways to manage the many connected devices in the enterprise.
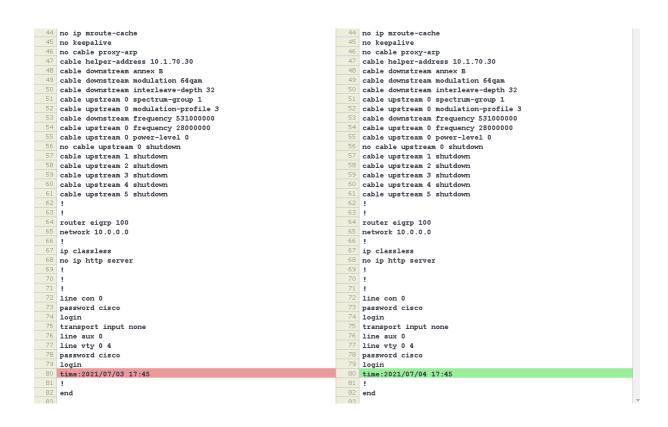
Network configuration is the process of assigning network settings, policies, flows, and controls in networking devices. Network Configuration Management (NCM) is a broad term for the organization and management of a computer network. All types of networks, including local area networks, wireless networks and virtual networks, need maintenance, modification, repair, and general monitoring. NCM involves collecting different information about hardware devices, software programs and other elements of the network in order to support administration and troubleshooting.

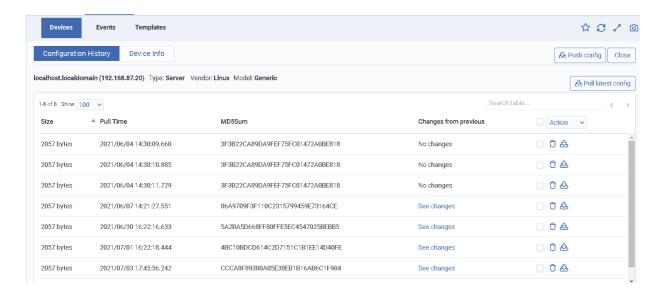NetGain NCM is a powerful and yet easy to use tool to manage the configuration of the network and devices. Using NetGain NCM to automate the management of your network configuration will reduce time spent on repetitive yet necessary tasks, coordinate changes throughout the network, and help ensure your network runs at peak performance. The software will minimize configuration errors and optimize the security of your network.

```
44  no ip mroute-cache              44  no ip mroute-cache
45  no keepalive                    45  no keepalive
46  no cable proxy-arp              46  no cable proxy-arp
47  cable helper-address 10.1.70.30 47  cable helper-address 10.1.70.30
48  cable downstream annex B        48  cable downstream annex B
49  cable downstream modulation 64qam 49  cable downstream modulation 64qam
50  cable downstream interleave-depth 32 50  cable downstream interleave-depth 32
51  cable upstream 0 spectrum-group 1 51  cable upstream 0 spectrum-group 1
52  cable upstream 0 modulation-profile 3 52  cable upstream 0 modulation-profile 3
53  cable downstream frequency 531000000 53  cable downstream frequency 531000000
54  cable upstream 0 frequency 28000000 54  cable upstream 0 frequency 28000000
55  cable upstream 0 power-level 0  55  cable upstream 0 power-level 0
56  no cable upstream 0 shutdown    56  no cable upstream 0 shutdown
57  cable upstream 1 shutdown       57  cable upstream 1 shutdown
58  cable upstream 2 shutdown       58  cable upstream 2 shutdown
59  cable upstream 3 shutdown       59  cable upstream 3 shutdown
60  cable upstream 4 shutdown       60  cable upstream 4 shutdown
61  cable upstream 5 shutdown       61  cable upstream 5 shutdown
62  !                               62  !
63  !                               63  !
64  router eigrp 100                64  router eigrp 100
65  network 10.0.0.0                65  network 10.0.0.0
66  !                               66  !
67  ip classless                    67  ip classless
68  no ip http server               68  no ip http server
69  !                               69  !
70  !                               70  !
71  !                               71  !
72  line con 0                      72  line con 0
73  password cisco                  73  password cisco
74  login                           74  login
75  transport input none            75  transport input none
76  line aux 0                      76  line aux 0
77  line vty 0 4                     77  line vty 0 4
78  password cisco                  78  password cisco
79  login                           79  login
80  time:2021/07/03 17:45           80  time:2021/07/04 17:45
81  !                               81  !
82  end                             82  end
83                                  83
```

Devices   Events   Templates   ☆ ⟳ ⤢ ◯

Configuration History   Device Info   ⬆ Push config   Close

localhost.localdomain (192.168.87.20) Type: **Server** Vendor: **Linux** Model: **Generic**   ⬇ Pull latest config

1-8 of 8 Show 100 ⌄   Search table...   ‹   ›

Size	▲ Pull Time	MD5Sum	Changes from previous	☐ Action ⌄
2057 bytes	2021/06/04 14:30:09.660	3F3B22CA89DA9FEF75FC01472A0BE818	No changes	☐ 🗑 ⬇
2057 bytes	2021/06/04 14:30:10.885	3F3B22CA89DA9FEF75FC01472A0BE818	No changes	☐ 🗑 ⬇
2057 bytes	2021/06/04 14:30:11.729	3F3B22CA89DA9FEF75FC01472A0BE818	No changes	☐ 🗑 ⬇
2057 bytes	2021/06/07 14:21:27.551	06A9709F3F110C2315799459E73164CE	See changes	☐ 🗑 ⬇
2057 bytes	2021/06/30 16:22:16.633	5A2BA5D668FF80FFE5EC4547025BEBB5	See changes	☐ 🗑 ⬇
2057 bytes	2021/07/01 16:22:18.444	4BC10BDCD614C2D7151C1B1EE14D40FE	See changes	☐ 🗑 ⬇
2057 bytes	2021/07/03 17:45:56.242	CCCA8F89300A05E38EB1B16AB6C1F904	See changes	☐ 🗑 ⬇

BENEFITS

1

Improve operations through automation

Config management is an essential part of managing the network. In large networks with hundreds or thousands of network devices, it is necessary to automate the mundane but required tasks such as config changes and backups. Automating the task through the NCM frees the operators to focus on doing more valuable tasks.

2

Minimize human errors

Many studies have shown that the number one cause of network outages is human errors. One of the common error is the misconfiguration of network devices, which can lead to broadcast storms or total network meltdown. By automating the process of config management, an enterprise minimizes the chance of human errors in network settings.

3

Optimize your network security

Network security is one of the layers in the defence-in-depth strategy that enterprises take to counter cybersecurity threats. Config changes on a device can undermine network security and damage the privacy of users. Proper control and management of the network settings is critical to the security of the enterprise.

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FEATURES

1

Automatic config backups
The system sets a baseline for the configuration, and regular backups are taken of the device configs and saved. The operator can set scheduled backups so that the process is done automatically. The operator can search for specific config versions. Besides saving the backups, we also support push of configuration to the devices.

2

Bulk push and pull of configs
The system offers the capability to do bulk push and pull to a group of devices as defined by the operator. The operator can also use pre-defined templates for the devices. This makes the process fast and easy for the operator.

3

Live comparison for config changes
The system shows live comparisons for different configs of the devices. The changes are highlighted for the operator. An alert can be generated when there are changes found, and the operator can be notified by the system.

www.netgain-systems.com

ABOUT NETGAIN SYSTEMS

Founded in 2002, NetGain Systems is a pioneer in the IT monitoring business and has established local teams throughout the Asia Pacific Region, including Australia, China and Singapore.

Regardless of location, type, size, or complexity, our solutions give customers the power to monitor their IT services, infrastructure, applications and devices with ease, all from a single management dashboard, so you can maximize uptime and achieve IT excellence.

By understanding that every organization's IT environment is different, NetGain's dynamic solutions are designed to be uniquely adaptable, fitting the unique demands of your operating environment and evolving with your growing organization.