

Password Recovery Procedure for the LightStream 2020

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Introduction

This document describes the password recovery procedure for the LightStream 2020.

This procedure erases your current password and allows you to specify a new one. All other configurations remain the same.

Note: It is not possible to recover an old password.

Prerequisites

Requirements

There are no specific requirements for this document.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Step-by-Step Procedure

Complete these steps in order to recover a password, for instance if you cannot access the **root** account:

1. Type ``.` in order to get a Test and Control System (TCS) hub prompt.

```
user name:`.  
TCS HUB<>
```

2. At the TCS hub prompt, use **reset** and **connect** in order to reset the NP card.

Note: Be prepared to press **Enter** at the prompt.

```
TCS HUB<>    reset 1  
TCS HUB<>    connect 1  
  
Memory Autosizing...(32Meg)...Done  
Clearing 32Meg Memory...Done  
NP1 POST Version 0.220 Nov 23 1994
```

NP1 POST SUMMARY:

0 Tests Failed

System will boot in 5 seconds: hit to interrupt.

Press **Enter** now.

3. Choose option **5** to boot the system for a single-user.

```
Network Processor bootstrap(version 1.3: Sep 13 1993)1 -  
Boot ATM switch application2 - Begin full installation with boot  
from floppy disk
```

```
3 - List contents of hard disk root directory  
4 - List contents of floppy disk root directory  
5 - Boot system single-user  
6 - Escape to full set of bootstrap options  
7 - Extended help  
Option> 5
```

```
booting: drive:0, partition:0, kernel:"lynx.os", flags:0x4100  
Resetting SCSI bus  
Kernel linked for 0xea010000  
LOAD AT 0x10000  
483328+49152+262564[+62796+51901]  
TOTAL SIZE: 909744 at 0x1001c  
START AT 0x10020  
NP memory size: 32 MB  
ILACC: EEPROM enet addr:8:0:8:0:ae:61, Silicon Rev:0x5, IB:0xealdfce0  
virtual console: IB: 0xealdfce68  
NCR 53C710: Chip Revision: 0x2, IB: 0xec18e000
```

```
LynxOS/68040-MVME167 Version 2.1.0  
Copyright 1992 Lynx Real-Time Systems Inc.All rights reserved.
```

```
LynxOS release 2.1.0, level 1: NP-LynxOS #112: compiled Nov 08 1994 19:49:33  
Single-user boot
```

4. At the single-user prompt, change to the etc directory:

```
single-user$cd etc
```

5. Use vi or a similar editor in order to remove the encrypted password fields (marked with ^^) for each account in the passwd file:

```
single-user$vi passwd
```

```
Fromroot:I4ecBSBzgWj8Y:0:0:::/bin/bash  
^^^^^^^^^^^^^^^^  
fldsup:QcK54TedA2I/M:1:0::/usr/fldsup:/bin/bash  
^^^^^^^^^^^^^^^^  
npadmin:YkMkeWw12RSsk:2:0::/usr/npadmin:/bin/bash  
^^^^^^^^^^^^^^^^  
oper:3rAfI240uTh/M:3:0::/usr/oper:/bin/bash  
^^^^^^^^^^^^^^^^  
To  
root::0:0:::/bin/bash  
fldsup::1:0::/usr/fldsup:/bin/bash  
npadmin::2:0::/usr/npadmin:/bin/bash  
oper::3:0::/usr/oper:/bin/bash
```

6. Verify the changes:

```
single-user$more passwd
```

```
root::0:0::/bin/bash  
fldsup::1:0::/usr/fldsup:/bin/bash  
npadmin::2:0::/usr/npadmin:/bin/bash
```

```
oper::3:0::/usr/oper:/bin/bash
```

7. If the changes look satisfactory, then log out:

```
single-user$logout
```

Note: Do not type ``.`, as this corrupts the password file and takes you back to the start of the process.`

```
LynxOS Startup: m
fsck /dev/sd0a
(all sizes and block numbers in decimal)
(file system creation time is Thu Apr 27 11:27:01 1995)
checking used files
recovering orphaned files
putting orphaned files in /lost+found
making free block list
making free inode list
* fixed link count inode 1 was 20 is 21
46124 free blocks 3262 free inodes
*** FILE SYSTEM /dev/sd0a WAS MODIFIED ***
*** reboot -d IF /dev/sd0a IS MOUNTED! ***
REBOOTING!

**** LynxOS [rebooted by /bin/reboot] is down ****

Memory Autosizing...(32Meg)...Done
Clearing 32Meg Memory...Done
NP1 POST Version 0.220 Nov 23 1994

NP1 POST SUMMARY:
-----
0 Tests Failed

booting: drive:0, partition:0, kernel:"lynx.os", flags:0x5104
Resetting SCSI bus
Kernel linked for 0xea010000
LOAD AT 0x10000
483328+49152+262564[+62796+51901]
TOTAL SIZE: 909744 at 0x1001c
START AT 0x10020
NP memory size: 32 MB
ILACC: EEPROM enet addr:8:0:8:0:ae:61, Silicon Rev:0x5, IB:0xealdfce0
virtual console: IB: 0xealdf68
NCR 53C710: Chip Revision: 0x2, IB: 0xec18e000

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LynxOS release 2.1.0, level 1: NP-LynxOS #112: compiled Nov 08 1994 19:49:33
Single-user boot
single-user$
```

8. Type ``.`` in order to get a TCS hub prompt.

```
single-user$ `.`
TCS HUB<>
```

9. Reset the NP card.

```
TCS HUB<>   reset 1
TCS HUB<>   connect 1

Memory Autosizing...(32Meg)...Done
Clearing 32Meg Memory...Done
NP1 POST Version 0.220 Nov 23 1994
```

NP1 POST SUMMARY:

0 Tests Failed

System will boot in 5 seconds: hit to interrupt. /* Don't hit RETURN */
System will boot in 4 seconds: hit to interrupt.
System will boot in 3 seconds: hit to interrupt.
System will boot in 2 seconds: hit to interrupt.
System will boot in 1 seconds: hit to interrupt.

booting: drive:0, partition:0, kernel:"lynx.os", flags:0x4108
Resetting SCSI bus
Kernel linked for 0xea010000
LOAD AT 0x10000
483328+49152+262564[+62796+51901]
TOTAL SIZE: 909744 at 0x1001c
START AT 0x10020
NP memory size: 32 MB
ILACC: EEPROMenet addr:8:0:8:0:ae:61, Silicon Rev:0x5, IB:0xealdfce0
virtual console: IB: 0xealdf68
NCR 53C710: Chip Revision: 0x2, IB: 0xec18e000

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LynxOS release 2.1.0, level 1: NP-LynxOS #112: compiled Nov 08 1994 19:49:33

LynxOS Startup: ma

fsck /dev/sd0a
(all sizes and block numbers in decimal)
(file system creation time is Thu Apr 27 18:27:01 1995)
checking used files
recovering orphaned files
making free block list
making free inode list
46124 free blocks 3262 free inodes

fsck /dev/sd0b
(all sizes and block numbers in decimal)
(file system creation time is Thu Apr 27 18:27:22 1995)
checking used files
recovering orphaned files
making free block list
making free inode list
43086 free blocks 3532 free inodes

fsck /dev/sd0c
(all sizes and block numbers in decimal)
(file system creation time is Thu Apr 27 18:27:43 1995)
checking used files
recovering orphaned files
making free block list
making free inode list
31519 free blocks 3612 free inodes

fsck /dev/sd0d
(all sizes and block numbers in decimal)
(file system creation time is Thu Apr 27 18:28:01 1995)
recovering orphaned files
making free block list
making free inode list
65132 free blocks 4367 free inodes

Mounting all filesystems

10. You can now see the password installation prompt. Provide new passwords for each account as necessary:

```
The following accounts do not have passwords:
root fldsup npadmin oper
```

```
Install a password on the root account? (y/n) [y] y
Changing password for root
Enter new password:
Retype new password:
```

```
Install a password on the fldsup account? (y/n) [y] y
Changing password for fldsup
Enter new password:
Retype new password:
```

```
Install a password on the npadmin account? (y/n) [y] y
Changing password for npadmin
Enter new password:
Retype new password:
```

```
Install a password on the oper account? (y/n) [y] y
Changing password for oper
Enter new password:
Retype new password:
```

```
Starting VM system ... Virtual Memory Engaged!
inetd started
Starting crond ...
Initializing the switch hardware interface ...
Using switch A, cards are NOT synchronized, fast cutover is supported
PCP version: 0x410, CMP version: 0x12, FSU version 0x109
Starting the switch software
LightStream 2020 Version 2.0.6
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Portions copyright 1992 by Lynx Real-Time Systems Inc., 1983 by the Regents
of the University of California, 1988 and 1990 by Paul Vixie, and 1991 by
SNMP Research Inc.
```

```
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```

```
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page.
```

```
PROGRAM: cbuf: (ls2_0) compiled Nov 08 1994 @ 23:33:35 [pid:50]
```

11. Login as root and check the new password:

```
user name: root
password:
```

Related Information

• Technical Support & Documentation – Cisco Systems

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