

Cloudpath ES Update Instructions For Linux GNU Library C (glibc)

February 17, 2016

Introduction

A serious vulnerability was released earlier this week known as CVE-2015-7547. This vulnerability affects GNU Library C (glibc) on Linux installations. We responded to this threat by patching our hosted servers and releasing a patch for products affected by this exploit.

The version of glibc on Cloudpath ES versions 4.2.2630, and earlier, is vulnerable to this exploit. We have made a patch available and pushed the update to our yum repositories to help streamline the update process.

Note >>

If your Cloudpath ES is hosted (onboard.cloudpath.net, training.cloudpath.net) you can disregard this update. These managed servers have already been updated.

Update Options

Important >>

We recommend that you create a VMware snapshot before making any system changes to your Cloudpath ES.

There are 3 options for applying this update:

1. If you are running Cloudpath ES versions 4.2.2626, or earlier, you can update to the latest released version 4.2.2630 using the normal system update procedure. The glibc update is applied automatically with all of the yum updates during the upgrade. See the document *Upgrading the Enrollment System* (on the *Support > Documentation* page) for details.

Note >>

This option will automatically reboot your system.

2. All Cloudpath ES versions can update the glibc package using Apply Support Patches on the System Updates page. See UI Update - Apply Support Patches.
3. All Cloudpath ES versions can update the glibc package using the command reference. See CLI Update - yum update glibc.

Note >>

Replicated systems can be updated and rebooted without stopping the replication service.

UI Update - Apply Support Patches

Use these instructions to apply support patches from the Cloudpath ES Admin UI.

1. Navigate to the *System Updates* page (*Administration > System > System Updates*).

FIGURE 1. System Updates Page

The screenshot displays the 'System Updates' page in the Cloudpath ES Admin UI. The page header includes 'XpressConnect Enrollment System | Anna Test' and a 'Logout' button. The left sidebar contains navigation options: Dashboard, Configuration, Sponsorship, Certificate Authority, Administration, Administrators, System, Advanced, and Support. The main content area shows the current system version (4.0.2330) and a 'Check For Updates' button. Below this, a table lists available updates with their versions and actions. The 'Apply Support Patches' button for the current release is highlighted.

Current:	4.0.2330	⏻
Version:	4.0.2330	
State:	GA	
Date Published:	20150303	
Update Notes:	Create a VMware snapshot of the enrollment system VM before upgrading. For updates, refer to the release notes .	
Update URL:	https://dist.cloudpath.net/	
Actions:	Resync Data Apply Support Patches	
Update 1:	4.1.2467	⏻
Update 2:	4.1.2551	
Update 3:	4.2.2630	

2. Click *Check For Updates* at the top right.
3. Expand the release information for your current release.
4. In the section for your current release, click *Apply Support Patches*.

Note >>

If you click only the *Apply Support Patches* button, only the yum repo is updated.

The system will automatically reboot after the yum repo is updated.

CLI Update - yum update glibc

Use these instructions to perform a yum update from the Cloudpath ES command line.

Verify Yum Package Version

From the VMWare console or via SSH, access the root account.

From the root account, check your current yum version using the following command:

```
[root@<AccountName> cpn_service]#yum info glibc
```

You should see the following display, showing your current glibc version. The result of this command will show the Installed version and any Available versions.

```
[root@<AccountName> cpn_service]# yum info glibc
```

```
Loaded plugins: fastestmirror, security
```

```
Loading mirror speeds from cached hostfile
```

Installed Packages

```
Name      : glibc
```

```
Arch      : x86_64
```

```
Version   : 2.12
```

```
Release   : 1.166.el6_7.3
```

```
Size      : 12 M
```

```
Repo      : installed
```

```
From repo : updates
```

```
Summary   : The GNU libc libraries
```

```
URL       : http://sources.redhat.com/glibc/
```

```
License   : LGPLv2+ and LGPLv2+ with exceptions and GPLv2+
```

```
Description : The glibc package contains standard libraries which are used by
              : multiple programs on the system. In order to save disk space and
              : memory, as well as to make upgrading easier, common system code is
              : kept in one place and shared between programs. This particular package
              : contains the most important sets of shared libraries: the standard C
              : library and the standard math library. Without these two libraries, a
              : Linux system will not function.
```

Available Packages

```
Name      : glibc
```

```
Arch      : i686
```

```
Version      : 2.12
Release     : 1.166.el6_7.7
Size        : 4.3 M
Repo        : updates
Summary     : The GNU libc libraries
URL         : http://sources.redhat.com/glibc/
License     : LGPLv2+ and LGPLv2+ with exceptions and GPLv2+
Description : The glibc package contains standard libraries which are used by
              : multiple programs on the system. In order to save disk space and
              : memory, as well as to make upgrading easier, common system code is
              : kept in one place and shared between programs. This particular package
              : contains the most important sets of shared libraries: the standard C
              : library and the standard math library. Without these two libraries, a
              : Linux system will not function.
```

The vulnerable glibc version is displayed as Release : 1.166.el6_7.3

Update Yum Package

If your ES virtual appliance has the vulnerable glibc package version, update the package using the following command:

```
[root@<AccountName> cpn_service]#sudo yum update glibc*
```

Note >>

This will update the glibc package and the glibc-common package.

You should see the following:

```
[root@<AccountName> cpn_service]# yum update glibc*
Loaded plugins: downloadonly, fastestmirror, security
Setting up Update Process
Determining fastest mirrors
Resolving Dependencies
--> Running transaction check
---> Package glibc.x86_64 0:2.12-1.166.el6_7.3 will be updated
---> Package glibc.x86_64 0:2.12-1.166.el6_7.7 will be an update
---> Package glibc-common.x86_64 0:2.12-1.166.el6_7.3 will be updated
---> Package glibc-common.x86_64 0:2.12-1.166.el6_7.7 will be an update
--> Finished Dependency Resolution
```

Reboot System

After the yum update completes, you must reboot your system using the following command for this update to take effect:

```
[root@<AccountName> cpn_service]#reboot
```

Exit the command line shell or console.

Support

If you have any questions, please contact Cloudpath Support: support@cloudpath.net.