# IBM CDC FixCentral Downloader Reference

| Version | Author | Date | Comments |
|---------|--------|------|----------|
| 0.1 | Ian Wheatley [ianwheat@uk.ibm.com](mailto:ianwheat@uk.ibm.com) | 13th November 2025 | First Draft |
| 1.0 | Ian Wheatley [ianwheat@uk.ibm.com](mailto:ianwheat@uk.ibm.com) | 14th November 2025 | First Release following updates |

# CDC/IIDR Fix Central Auto Download Program

- This document covers the installation and use of the CDC/IIDR Fix Central download utility program.

# Limitations

- This is compiled and built for RedHat Linux 8 and 9. For other RedHat versions the package is likely to need to be rebuilt.
- For different platforms, a new build would definitely be required.

# Installation

## RHEL 8

### Dependencies

- Any dependencies are installed by the rpm package.

### CDC/IIDR Download Utility Installation

- Copy the provided **cdcefd-1.0.0.4-1.el8.x86_64.rpm** to your target environment.
- Install using the `dnf install` command as shown below.
- This will install any dependencies.

```
[root@linux cdcefd-main]# dnf install cdcefd-1.0.0.4-1.el8.x86_64.rpm
Updating Subscription Management repositories.
Red Hat Enterprise Linux 8 for x86_64 - AppStre 144 kB/s | 4.5 kB     00:00
Red Hat Enterprise Linux 8 for x86_64 - BaseOS  136 kB/s | 4.1 kB     00:00
```

```
Dependencies resolved.
================================================================================
 Package            Arch   Version          Repository                    Size
================================================================================
Installing:
 cdcefd             x86_64 1.0.0.4-1.el8    @commandline                  22 k
Installing dependencies:
 python3-cffi       x86_64 1.11.5-6.el8     rhel-8-for-x86_64-baseos-rpms  238 k
 python3-cryptography
                    x86_64 3.2.1-8.el8_10   rhel-8-for-x86_64-baseos-rpms  559 k
 python3-lxml       x86_64 4.2.3-4.el8      rhel-8-for-x86_64-appstream-rpms 1.5 M
 python3-pip        noarch 9.0.3-24.el8     rhel-8-for-x86_64-appstream-rpms  20 k
 python3-pycparser  noarch 2.14-14.el8      rhel-8-for-x86_64-baseos-rpms  109 k
 python3-webencodings
                    noarch 0.5.1-6.el8      rhel-8-for-x86_64-appstream-rpms  27 k
 python36           x86_64 3.6.8-39.module+el8.10.0+20784+edafcd43
                                            rhel-8-for-x86_64-appstream-rpms  20 k
Installing weak dependencies:
 python3-html5lib   noarch 1:0.999999999-6.el8
                                            rhel-8-for-x86_64-appstream-rpms 214 k

Transaction Summary
================================================================================
Install  9 Packages

Total size: 2.7 M
Total download size: 2.7 M
Installed size: 10 M
Is this ok [y/N]: y
Downloading Packages:
(1/8): python3-webencodings-0.5.1-6.el8.noarch. 475 kB/s |  27 kB     00:00
(2/8): python3-html5lib-0.999999999-6.el8.noarc 3.3 MB/s | 214 kB     00:00
(3/8): python36-3.6.8-39.module+el8.10.0+20784+ 1.1 MB/s |  20 kB     00:00
(4/8): python3-pip-9.0.3-24.el8.noarch.rpm      1.1 MB/s |  20 kB     00:00
(5/8): python3-pycparser-2.14-14.el8.noarch.rpm 5.4 MB/s | 109 kB     00:00
(6/8): python3-cffi-1.11.5-6.el8.x86_64.rpm     8.1 MB/s | 238 kB     00:00
(7/8): python3-lxml-4.2.3-4.el8.x86_64.rpm       11 MB/s | 1.5 MB     00:00
(8/8): python3-cryptography-3.2.1-8.el8_10.x86_  11 MB/s | 559 kB     00:00
--------------------------------------------------------------------------------
Total                                            18 MB/s | 2.7 MB     00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                     1/1
  Installing       : python3-pip-9.0.3-24.el8.noarch                     1/9
  Installing       : python36-3.6.8-39.module+el8.10.0+20784+edafcd43.x86 2/9
  Running scriptlet: python36-3.6.8-39.module+el8.10.0+20784+edafcd43.x86 2/9
  Installing       : python3-pycparser-2.14-14.el8.noarch                3/9
  Installing       : python3-cffi-1.11.5-6.el8.x86_64                    4/9
```

```
   Installing        : python3-cryptography-3.2.1-8.el8_10.x86_64              5/9
   Installing        : python3-webencodings-0.5.1-6.el8.noarch                 6/9
   Installing        : python3-html5lib-1:0.999999999-6.el8.noarch             7/9
   Installing        : python3-lxml-4.2.3-4.el8.x86_64                         8/9
   Installing        : cdcefd-1.0.0.4-1.el8.x86_64                             9/9
   Running scriptlet: cdcefd-1.0.0.4-1.el8.x86_64                              9/9
   Verifying         : python3-html5lib-1:0.999999999-6.el8.noarch             1/9
   Verifying         : python3-webencodings-0.5.1-6.el8.noarch                 2/9
   Verifying         : python3-lxml-4.2.3-4.el8.x86_64                         3/9
   Verifying         : python36-3.6.8-39.module+el8.10.0+20784+edafcd43.x86    4/9
   Verifying         : python3-pip-9.0.3-24.el8.noarch                         5/9
   Verifying         : python3-pycparser-2.14-14.el8.noarch                    6/9
   Verifying         : python3-cffi-1.11.5-6.el8.x86_64                        7/9
   Verifying         : python3-cryptography-3.2.1-8.el8_10.x86_64              8/9
   Verifying         : cdcefd-1.0.0.4-1.el8.x86_64                             9/9
Installed products updated.

Installed:
  cdcefd-1.0.0.4-1.el8.x86_64
  python3-cffi-1.11.5-6.el8.x86_64
  python3-cryptography-3.2.1-8.el8_10.x86_64
  python3-html5lib-1:0.999999999-6.el8.noarch
  python3-lxml-4.2.3-4.el8.x86_64
  python3-pip-9.0.3-24.el8.noarch
  python3-pycparser-2.14-14.el8.noarch
  python3-webencodings-0.5.1-6.el8.noarch
  python36-3.6.8-39.module+el8.10.0+20784+edafcd43.x86_64

Complete!
[root@linux cdcefd-main]#
```

- Test that it's installed by running `cdcefd` from any directory. Using the `root` user to test this is fine for now.

- If the following output is seen, it's correctly installed.

```
[root@linux ~]$ cdcefd
usage: cdcefd [-h] -v VERSION -p

{aix,iseries,imsremotesystemz,vsamremotesystemz,linuxx86,linuxsz,linuxp,imsremotesourc
e,vsamremotesource,imsremotesourcelinux,vsamremotesourcelinux,windows,zos}
              -t {iidr_client,iidr_console,iidr_access} [-d] [-l]
              [update_id]
cdcefd: error: the following arguments are required: -v/--version, -p/--platform, -t/
--type
[root@linux ~]$
```

# RHEL 9

## Dependencies

- Any dependencies are installed by the rpm package.

- However, if there's a desire to have **sftp** working and also the **progress bar**, these Python packages also need installing. These are specific for RedHat.

    - **python3-tqdm**

    - **python3-paramiko**

- If the **sftp** option and or the **progress bar** is desired then add the repository `Default_Organization_EPEL_epel9-x86_64`.

```
[root@linux ~]# subscription-manager repos --list
+----------------------------------------------------------+
    Available Repositories in /etc/yum.repos.d/redhat.repo
+----------------------------------------------------------+
...
Repo ID:   Default_Organization_EPEL_epel9-x86_64
Repo Name: Extra Packages for Enterprise Linux 9 - x86_64
Repo URL:  https://ltc-rhs.rchland.ibm.com/pulp/content/Default_Organization/Lib
           rary/custom/EPEL/epel9-x86_64
Enabled:   0
...


[root@linux ~]# subscription-manager repos --enable Default_Organization_EPEL_epel9-
x86_64
Repository 'Default_Organization_EPEL_epel9-x86_64' is enabled for this system.
[root@linux ~]#
```

- Then install one or both packages.

```
[root@linux ~]# dnf install python3-tqdm python3-paramiko
Updating Subscription Management repositories.
Red Hat Enterprise Linux 9 for x86_64 - BaseOS  7.2 kB/s | 4.1 kB     00:00
Red Hat Enterprise Linux 9 for x86_64 - AppStre 8.0 kB/s | 4.5 kB     00:00
Extra Packages for Enterprise Linux 9 - x86_64  4.1 kB/s | 2.3 kB     00:00
Red Hat Enterprise Linux 9 for x86_64 - Supplem 6.7 kB/s | 3.7 kB     00:00
Dependencies resolved.
================================================================================
 Package         Arch    Version     Repository                           Size
================================================================================
Installing:
 python3-paramiko
                 noarch 2.12.0-3.el9 Default_Organization_EPEL_epel9-x86_64 293 k
 python3-tqdm   noarch 4.65.0-2.el9 Default_Organization_EPEL_epel9-x86_64 129 k
Installing dependencies:
```

```
 libsodium       x86_64 1.0.18-8.el9 Default_Organization_EPEL_epel9-x86_64 161 k
 python3-bcrypt
                x86_64 3.2.2-1.el9  Default_Organization_EPEL_epel9-x86_64  43 k
 python3-pynacl
                x86_64 1.4.0-6.el9  Default_Organization_EPEL_epel9-x86_64 106 k
Installing weak dependencies:
 python3-pyasn1
                noarch 0.4.8-6.el9  rhel-9-for-x86_64-appstream-rpms        163 k

Transaction Summary
================================================================================
Install  6 Packages

Total download size: 895 k
Installed size: 3.4 M
Is this ok [y/N]: y
Downloading Packages:
(1/6): python3-bcrypt-3.2.2-1.el9.x86_64.rpm    44 kB/s |  43 kB     00:00
(2/6): libsodium-1.0.18-8.el9.x86_64.rpm       138 kB/s | 161 kB     00:01
(3/6): python3-pyasn1-0.4.8-6.el9.noarch.rpm   122 kB/s | 163 kB     00:01
(4/6): python3-paramiko-2.12.0-3.el9.noarch.rpm 237 kB/s | 293 kB     00:01
(5/6): python3-pynacl-1.4.0-6.el9.x86_64.rpm   101 kB/s | 106 kB     00:01
(6/6): python3-tqdm-4.65.0-2.el9.noarch.rpm    115 kB/s | 129 kB     00:01
--------------------------------------------------------------------------------
Total                                          363 kB/s | 895 kB     00:02
Extra Packages for Enterprise Linux 9 - x86_64  2.6 kB/s | 1.6 kB     00:00
Importing GPG key 0x3228467C:
 Userid     : "Fedora (epel9) <epel@fedoraproject.org>"
 Fingerprint: FF8A D134 4597 106E CE81 3B91 8A38 72BF 3228 467C
 From       : https://ltc-
rhs.rchland.ibm.com/katello/api/v2/repositories/1479/gpg_key_content
Is this ok [y/N]: y
Key imported successfully
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                              1/1
  Installing       : python3-bcrypt-3.2.2-1.el9.x86_64            1/6
  Installing       : libsodium-1.0.18-8.el9.x86_64                2/6
  Installing       : python3-pynacl-1.4.0-6.el9.x86_64            3/6
  Installing       : python3-pyasn1-0.4.8-6.el9.noarch            4/6
  Installing       : python3-paramiko-2.12.0-3.el9.noarch         5/6
  Installing       : python3-tqdm-4.65.0-2.el9.noarch             6/6
  Running scriptlet: python3-tqdm-4.65.0-2.el9.noarch             6/6
  Verifying        : python3-pyasn1-0.4.8-6.el9.noarch            1/6
  Verifying        : libsodium-1.0.18-8.el9.x86_64                2/6
  Verifying        : python3-bcrypt-3.2.2-1.el9.x86_64            3/6
  Verifying        : python3-paramiko-2.12.0-3.el9.noarch         4/6
  Verifying        : python3-pynacl-1.4.0-6.el9.x86_64            5/6
```

```
   Verifying          : python3-tqdm-4.65.0-2.el9.noarch                        6/6
Installed products updated.

Installed:
  libsodium-1.0.18-8.el9.x86_64            python3-bcrypt-3.2.2-1.el9.x86_64
  python3-paramiko-2.12.0-3.el9.noarch     python3-pyasn1-0.4.8-6.el9.noarch
  python3-pynacl-1.4.0-6.el9.x8==== CDC/IIDR Download Utility Installation

* Copy the provided *cdcefd-1.0.0.4-1.el9.x86_64.rpm* to your target environment.
* Install using the `dnf install` command as shown below.6_64        python3-tqdm-
4.65.0-2.el9.noarch

Complete!
[root@linux ~]#
```

- Copy the provided **cdcefd-1.0.0.4-1.el9.x86_64.rpm** to your target environment.

- Install using the dnf install command as shown below.

```
[root@linux ~]# dnf install cdcefd-1.0.0.4-1.el9.x86_64.rpm
Updating Subscription Management repositories.
Red Hat Enterprise Linux 9 for x86_64 - BaseOS  115 MB/s |  92 MB     00:00
Red Hat Enterprise Linux 9 for x86_64 - AppStre  91 MB/s |  77 MB     00:00
Dependencies resolved.
================================================================================
 Package           Arch    Version        Repository                      Size
================================================================================
Installing:
 cdcefd            x86_64 1.0.0.4-1.el9   @commandline                    22 k
Installing dependencies:
 python3-cffi      x86_64 1.14.5-5.el9    rhel-9-for-x86_64-baseos-rpms   257 k
 python3-cryptography
                   x86_64 36.0.1-5.el9_6 rhel-9-for-x86_64-baseos-rpms   1.2 M
 python3-lxml      x86_64 4.6.5-3.el9     rhel-9-for-x86_64-appstream-rpms 1.2 M
 python3-ply       noarch 3.11-14.el9     rhel-9-for-x86_64-baseos-rpms   111 k
 python3-pycparser noarch 2.20-6.el9      rhel-9-for-x86_64-baseos-rpms   139 k

Transaction Summary
================================================================================
Install  6 Packages

Total size: 3.0 M
Total download size: 3.0 M
Installed size: 11 M
Is this ok [y/N]: y
Downloading Packages:
(1/5): python3-cffi-1.14.5-5.el9.x86_64.rpm     3.5 MB/s | 257 kB     00:00
(2/5): python3-ply-3.11-14.el9.noarch.rpm       1.3 MB/s | 111 kB     00:00
(3/5): python3-pycparser-2.20-6.el9.noarch.rpm  1.2 MB/s | 139 kB     00:00
(4/5): python3-cryptography-36.0.1-5.el9_6.x86_  14 MB/s | 1.2 MB     00:00
```

```
(5/5): python3-lxml-4.6.5-3.el9.x86_64        13 MB/s | 1.2 MB    00:00
--------------------------------------------------------------------------
Total                                         17 MB/s | 3.0 MB    00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                 1/1
  Installing       : python3-lxml-4.6.5-3.el9.x86_64                 1/6
  Installing       : python3-ply-3.11-14.el9.noarch                  2/6
  Installing       : python3-pycparser-2.20-6.el9.noarch             3/6
  Installing       : python3-cffi-1.14.5-5.el9.x86_64                4/6
  Installing       : python3-cryptography-36.0.1-5.el9_6.x86_64      5/6
  Installing       : cdcefd-1.0.0.4-1.el9.x86_64                     6/6
  Running scriptlet: cdcefd-1.0.0.4-1.el9.x86_64                     6/6
  Verifying        : python3-cffi-1.14.5-5.el9.x86_64                1/6
  Verifying        : python3-ply-3.11-14.el9.noarch                  2/6
  Verifying        : python3-pycparser-2.20-6.el9.noarch             3/6
  Verifying        : python3-cryptography-36.0.1-5.el9_6.x86_64      4/6
  Verifying        : python3-lxml-4.6.5-3.el9.x86_64                 5/6
  Verifying        : cdcefd-1.0.0.4-1.el9.x86_64                     6/6
Installed products updated.

Installed:
  cdcefd-1.0.0.4-1.el9.x86_64
  python3-cffi-1.14.5-5.el9.x86_64
  python3-cryptography-36.0.1-5.el9_6.x86_64
  python3-lxml-4.6.5-3.el9.x86_64
  python3-ply-3.11-14.el9.noarch
  python3-pycparser-2.20-6.el9.noarch

Complete!
[root@linux ~]#
```

- Test that it's installed by running `cdcefd` from any directory.

- If the following output is seen, it's correctly installed.

```
[root@linux ~]# cdcefd
usage: cdcefd [-h] -v VERSION -p

{aix,iseries,imsremotesystemz,vsamremotesystemz,linuxx86,linuxsz,linuxp,imsremotesourc
e,vsamremotesource,imsremotesourcelinux,vsamremotesourcelinux,windows,zos}
              -t {iidr_client,iidr_console,iidr_access} [-d] [-l] [-s STAGE]
              [update_id]
cdcefd: error: the following arguments are required: -v/--version, -p/--platform, -t/
--type
[root@linux ~]#
```

# User Guide

## Environment Variables

- Add the following environment variables, possibly into the `.bash_profile` for Linux accounts that need to run it.

- The password **must** be base64 encoded.

```
export IBM_ID=<IBM account email address>
export IBM_ID_PASSWORD=<Encrypted base64 password>
export CDCEFD_CONFIG_PATH=/home/cdcauto
```

- Next, check the `cdcefd.json` configuration file supplied is in the `CDCEFD_CONFIG_PATH` location set above.

## Configuration file

- Check the `cdcefd.json` configuration file supplied is up-to-date for the CDC/IIDR binary versions that need to be downloaded.

  - If they're not up to date, the download utility will state it when it's run.

- The configuration file is JSON formatted.

```json
{
    "target_space": "prod",
    "api_hosts": {
        "test": "esupport-stage.ibm.com",
        "prod": "esupport.ibm.com"
    },
    "iidr_client": {
      "11.4": {
        "aix": "IIDR_11405_5785_AIX",
        "iseries": "IIDR_114_InterimFix14_IBMi_DB2_for_all_licenses",
        "imsremotesystemz": "IDR_11409_9_IMSRemoteSource_LinuxSystemZ",
        "vsamremotesystemz": "IDR_11422_9_VSAMRemoteSource_LinuxSystemZ",
        "linuxx86": "IIDR_11405_5785_Linuxx86",
        "linuxsz": "IIDR_11405_5785_LinuxSystemZ",
        "linuxp": "IIDR_11405_5785_LinuxPower",
        "imsremotesource": "IDR_11408_135_IMSRemoteSource",
        "vsamremotesource": "IDR_11421_135_VSAMRemoteSource",
        "imsremotesourcelinux": "IDR_11409_9_IMSRemoteSource_Linuxx86",
        "vsamremotesourcelinux": "IDR_11422_141_VSAMRemoteSource_Linuxx86",
        "windows": "IIDR_11405_5785_Windows",
        "zos": "IIDR_11405_11207_ClassicChcclp"
      }
    },
```

```
    "iidr_access": {
        "11.4": {
          "aix": "IIDR_11405_11207_AIX_AccessServer",
          "linuxx86": "IIDR_11405_11207_Linuxx86_AccessServer",
          "linuxsz": "IIDR_11405_11207_LinuxSystemZ_AccessServer",
          "linuxp": "IIDR_11405_11207_LinuxPower_AccessServer",
          "windows": "IIDR_11405_11207_Windows_AccessServer"
        }
    },
    "iidr_console": {
        "11.4": {
          "windows": "IIDR_11405_11207_Windows_ManagementConsole"
        }
    }
}
```

- The `target_space` and `api_hosts` sections shouldn't need to be changed.

- The `iidr_client`, `iidr_access`, `iidr_console`, `11.4` and the **key** entries such as `aix`, `iseries`, `imsremotesystemz` and so on shouldn't be changed either.

  ◦ The download program looks for these categories and these correspond to the command line parameters.

- For the CDC/IIDR Clients/Agents, this website can be checked for the latest Linux, UNIX and Windows versions.

- For iSeries, this website shows the latest version.

  ◦ For this specific entry it's only the Interim Fix number, namely **14**, that would need changing. Currently, the website lists the latest release as **IIDR 11.4 Interim Fix 14**.

  ◦ Previous releases for iSeries were **IIDR_114_interimFix12_IBMi_DB2_for_all_licenses** or **IIDR_114_interimFix13_IBMi_DB2_for_all_licenses**.

  ◦ For the remaining CDC/IIDR clients, there doesn't appear to be a central page that lists those releases or indeed a universal file naming convention. The easiest solution would be to refer to Fix Central using this link and specify the entries as listed and filter the platform as needed.

  ◦ For example, for Linux System Z, specify **IIDR_11405_5785_LinuxSystemZ** in the configuration file for entry `linuxsz`.
```

| | 3 | 🔗 refresh pack: → IIDR_11405_11207_Linuxx86_AccessServer<br>IBM InfoSphere Data Replication Access Server for Linux 11.4.0.5 Build 11207 | 2025/10/31 |
| | 4 | 🔗 refresh pack: → IIDR_11405_11207_LinuxSystemZ_AccessServer<br>IBM InfoSphere Data Replication Access Server for LinuxSystemZ 11.4.0.5 Build 11207 | 2025/10/31 |
| | 5 | 🔗 refresh pack: → IIDR_11405_11207_LinuxPower_AccessServer<br>IBM InfoSphere Data Replication Access Server for LinuxPower 11.4.0.5 Build 11207 | 2025/10/31 |
| | 6 | 🔗 refresh pack: → IIDR_11405_11207_ClassicChcclp<br>IBM InfoSphere Data Replication Chcclp for Classic 11.4.0.5 Build 11207 | 2025/10/31 |
| | 7 | 🔗 refresh pack: → IIDR_11405_11207_AIX_AccessServer<br>IBM InfoSphere Data Replication Access Server for AIX 11.4.0.5 Build 11207 | 2025/10/31 |
| | 8 | 🔗 refresh pack: → IIDR_11405_5785_Windows<br>IBM InfoSphere Data Replication CDC for all Windows agents 11.4.0.5 Build 5785 | 2025/10/30 |
| | 9 | 🔗 refresh pack: → IIDR_11405_5785_Linuxx86<br>IBM InfoSphere Data Replication CDC for all Linux agents 11.4.0.5 Build 5785 | 2025/10/30 |
| | 10 | 🔗 refresh pack: → IIDR_11405_5785_LinuxSystemZ<br>IBM InfoSphere Data Replication CDC for all LinuxSystemZ agents 11.4.0.5 Build 5785 | 2025/10/30 |

1-10 of 49 results · Previous · 1 · 2 · 3 · 4 · 5 · Next

- For the Console and Access Server, this website can be checked for the latest version.

  ◦ Update the `iidr_access` and `iidr_console` sections.

  ◦ For the CDC/IIDR Management Console entry, `IIDR_11405_11207_Windows_ManagementConsole`, it is likely only the second number surrounded by underscores, namely **11207**, will need to be updated. The **11405** refers to CDC/IIDR version **11.4.0.5**.

  ◦ This is based on the website listing currently showing `IDR MC/AS 11.4.0.5-11207`.

  ◦ The same applies for the CDC/IIDR Access Server section.

- The update ID may contain wildcards.

# Running the program

- To see the help, simply run the `cdcefd` command without any parameters.

```
[cdcauto@linux ~]$ cdcefd
usage: cdcefd [-h] -v VERSION -p

{aix,iseries,imsremotesystemz,vsamremotesystemz,linuxx86,linuxsz,linuxp,imsremotesourc
e,vsamremotesource,imsremotesourcelinux,vsamremotesourcelinux,windows,zos}
              -t {iidr_client,iidr_console,iidr_access} [-d] [-l]
              [update_id]
cdcefd: error: the following arguments are required: -v/--version, -p/--platform, -t/
--type

positional arguments:
  update_id

optional arguments:
  -h, --help            show this help message and exit
  -v VERSION, --version VERSION
```

```
  -p
{aix,iseries,imsremotesystemz,vsamremotesystemz,linuxx86,linuxsz,linuxp,imsremotesourc
e,vsamremotesource,imsremotesourcelinux,vsamremotesourcelinux,windows,zos}
  -t {iidr_client,iidr_console,iidr_access}, --type
{iidr_client,iidr_console,iidr_access}
  -d, --download
  -l, --latest
```

- The downloaded image is checked for the correct checksum and signature if a cosign signature exists.

- The image download is multithreaded and restarts on error.

- Although not relevant for CDC/IIDR downloads, larger files will be broken down into chunks and downloaded in parallel.

  - This should make the download faster and more reliable since if a chunk fails only the failing chunk needs to be retried.

  - To override this behaviour set the environment variable NUM_ADDRESS_RANGES=x where x is the number of chunks. To disable set NUM_ADDRESS_RANGES to 1.

  - If the download is being throttled it may be necessary to set NUM_ADDRESS_RANGES to 1 to avoid timeouts in some situations.

## Examples

- List the available package for the CDC/IIDR Management Console:

```
[cdcauto@linux ~]$ cdcefd -v 11.4 -p windows -t iidr_console
Poll the order response...
Poll the order response...
Order event processed
IIDR_11405_11207_Windows_ManagementConsole
```

- Download the 11.4.0.5 Linux CDC/IIDR Client package. The progress bar is not present.

```
[cdcauto@linux ~]$ cdcefd -v 11.4 -p linuxx86 -t iidr_client -d
Poll the order response...
Poll the order response...
Order event processed
Poll the order response...
Poll the order response...
Order event processed
Download iidrmc-11.4.0.5-11207-setup.exe
Download complete
```

- Here's an example of the download with the progress bar using sftp.

```
[cdcauto@linux ~]$ cdcefd -v 11.4 -p linuxx86 -t iidr_access -d -s
```

```
sftp://cdcauto@linux:/home/cdcauto
Poll the order response...
Poll the order response...
Order event processed
IIDR_11405_11207_Linuxx86_AccessServer
Poll the order response...
Poll the order response...
Order event processed
Download iidraccess-11.4.0.5-11207-linux-x86-setup.bin
iidraccess-11.4.0.5-11207-linux-x86-setup.bin: 100%|█| 297M/297M [01:23<00:00, 3
Download complete
[cdcauto@linux ~]$
```

- Example of trying to download the CDC Management Console, but there's a newer fix available.

  - The JSON file had IIDR_11405_11206_Windows_ManagementConsole.

  - The newest release now IIDR_11405_11207_Windows_ManagementConsole.

  - This is indicated by the RuntimeError: New fix available message.

  - Older versions of the CDC/IIDR program are not stored in Fix Central, only information on them.

- Just update the JSON file to IIDR_11405_11207 in this case.

```
[cdcauto@linux ~]$ cdcefd -v 11.4 -p windows -t iidr_console -d
Poll the order response...
Poll the order response...
Order event processed
IIDR_11405_11206_Windows_ManagementConsole
Poll the order response...
Poll the order response...
Order event processed
Traceback (most recent call last):
  File "/usr/bin/cdcefd", line 371, in <module>
    raise RuntimeError(update['error_description'])
RuntimeError: New fix available
[cdcauto@linux ~]$ s
```

## CDC/IIDR Download Utility Removal

- To uninstall the package simply run the dnf remove command.

```
[root@linux ~]# dnf remove cdcefd-1.0.0.4-1.el9.x86_64
Updating Subscription Management repositories.
Dependencies resolved.
================================================================================
 Package        Architecture  Version                    Repository       Size
================================================================================
Removing:
```

```
   cdcefd          x86_64          1.0.0.4-1.el9            @@commandline          55 k

Transaction Summary
================================================================================
Remove  1 Package

Freed space: 55 k
Is this ok [y/N]: y
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                      1/1
  Erasing          : cdcefd-1.0.0.4-1.el9.x86_64                          1/1
  Verifying        : cdcefd-1.0.0.4-1.el9.x86_64                          1/1
Installed products updated.

Removed:
  cdcefd-1.0.0.4-1.el9.x86_64

Complete!
[root@linux ~]# cdcefd
-bash: /usr/bin/cdcefd: No such file or directory
[root@linux ~]#
```

# Helpful CDC/IIDR Resources and Information

**Main IBM CDC/IIDR Support Site**

> This site contains the CDC documentation for versions 10.2.1 through to 11.4.0.

# Appendix

This table lists any useful support pages.

| Support Information | Support Link |
| --- | --- |
| IBM Data Replication Community Wiki | https://www.ibm.com/support/pages/node/1104465 |