

如何验证一个下载的文件完整性从Cisco.com的

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简介

本文显示如何容易地验证文件的校验和下载思科下载软件站点在Windows、Mac或者Linux个人计算机上和所有MD或NX-OS交换机的。

如何验证下载的文件完整性从Cisco.com的？

从思科下载软件链路，请放置在您要下载的文件的光标，并且这给予其它文献详细信息，如镜像所显示，包括MD5和SHA512校验和，：

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MDS 9148S 16G Multilayer Fabric Switch

The screenshot shows the Cisco Download Software interface. On the left, there is a search bar and a navigation menu with options like 'Expand All | Collapse All', 'Latest', 'All Releases', and 'Deferred Releases'. The main content area displays 'Release 8.1(1)' with a star rating and a 'Release Notes for 8.1(1)' link. Below this, a table lists file information:

File Information	Release Date	Size
Cisco MDS 9148S Multilayer Fabric Switch - Kick Start Image for NXOS 8.1(1) m9100-s5ek9-kickstart-mz.8.1.1.bin	03-MAY-2017	23.85 MB

To the right of the table are buttons for 'Download', 'Add to cart', and 'Publish'. A 'Details' popup window is open, showing the following information:

- Description: Cisco MDS 9148S Multilayer Fabric Switch - Kick Start Image for NXOS 8.1(1)
- Release: 8.1(1)
- Release Date: 03/May/2017
- File Name: m9100-s5ek9-kickstart-mz.8.1.1.bin
- Size: 23.85 MB (25008128 bytes)
- MD5 Checksum: 2dc155945b35f96e129ca8e143780255
- SHA512 Checksum: 8ed2c70b879ed76be2f149f70a1d35c9...

At the bottom of the details popup, there are links for 'MDS-Release Notes', 'Release Notes for 8.1(1)', and 'Field Notices'.

在Windows PC，有您能以(在其他中)设立所有文件唯一校验和的MD5或SHA512散列算法使用的一内藏的工具certutil。

```
certutil -hashfile <filename> MD5|SHA512
```

使用上述m9100-s5ek9-kickstart-mz.8.1.1.bin文件为例：

```
c:\Temp>certutil -hashfile m9100-s5ek9-kickstart-mz.8.1.1.bin MD5
```

```
MD5 hash of file m9100-s5ek9-kickstart-mz.8.1.1.bin:
```

```
2d c1 55 94 5b 35 f9 6e 12 9c a8 e1 43 78 02 55
```

```
CertUtil: -hashfile command completed successfully.
```

```
c:\Temp>certutil -hashfile m9100-s5ek9-kickstart-mz.8.1.1.bin SHA512
```

```
SHA512 hash of file m9100-s5ek9-kickstart-mz.8.1.1.bin:
```

```
8e d2 c7 0b 87 9e d7 6b e2 f1 49 f7 0a 1d 35 c9 2e 75 75 bc 2f 88 1b 49 73 b6 a4 a8 db 44 98 78
```

```
2d 14 5d 6d a6 f4 e5 08 71 ce 98 21 86 2a 76 a7 26 72 2b e3 b1 fc 0b a6 08 12 9e c7 3d 6e c2 ff
```

```
CertUtil: -hashfile command completed successfully.
```

```
c:\Temp>
```

在Mac，您能使用md5或shasum --512 <filename>达到此：

```
$ md5 m9100-s5ek9-kickstart-mz.8.1.1.bin
```

```
MD5 (m9100-s5ek9-kickstart-mz.8.1.1.bin) = 2dc155945b35f96e129ca8e143780255
```

```
$ shasum -a 512 m9100-s5ek9-kickstart-mz.8.1.1.bin
```

```
8ed2c70b879ed76be2f149f70a1d35c92e7575bc2f881b4973b6a4a8db4498782d145d6da6f4e50871ce9821862a76a7
```

```
26722be3b1fc0ba608129ec73d6ec2ff m9100-s5ek9-kickstart-mz.8.1.1.bin
```

即在Linux或UNIX机器上，请使用典型地查找的md5sum或sha512sum在/usr/bin：

```
$ md5sum m9100-s5ek9-kickstart-mz.8.1.1.bin
```

```
2dc155945b35f96e129ca8e143780255 m9100-s5ek9-kickstart-mz.8.1.1.bin
```

```
$ sha512sum m9100-s5ek9-kickstart-mz.8.1.1.bin
```

```
8ed2c70b879ed76be2f149f70a1d35c92e7575bc2f881b4973b6a4a8db4498782d145d6da6f4e50871ce9821862a76a7
```

```
26722be3b1fc0ba608129ec73d6ec2ff m9100-s5ek9-kickstart-mz.8.1.1.bin
```

一旦文件转接对MD或连结Bootflash，您能检查md5sum或sha512sum与：

```
MDSswitch# show file bootflash:m9100-s5ek9-kickstart-mz.8.1.1.bin ?
```

```
<CR>
```

```
> Redirect it to a file
```

```
>> Redirect it to a file in append mode
```

```
cksum Displays CRC checksum for a file
```

```
md5sum Displays MD5 checksum for a file
```

```
sha256sum Displays SHA256 checksum for a file
```

```
sha512sum Displays SHA512 checksum for a file
```

```
| Pipe command output to filter
```

```
MDSswitch# show file bootflash:m9100-s5ek9-kickstart-mz.8.1.1.bin md5sum
```

```
2dc155945b35f96e129ca8e143780255
```

```
MDSswitch# show file bootflash:m9100-s5ek9-kickstart-mz.8.1.1.bin sha512sum
```

```
8ed2c70b879ed76be2f149f70a1d35c92e7575bc2f881b4973b6a4a8db4498782d145d6da6f4e50871ce9821862a76a7
```

```
26722be3b1fc0ba608129ec73d6ec2ff
```

从上，您能看到思科下载软件站点的m9100-s5ek9-kickstart-mz.8.1.1.bin文件、Windows、Mac或者Linux个人计算机和MD交换机有同样md5sum和sha512sum字符。

这确认传输的文件的正确性到交换机。

注意：初期的NX-OS版本不也许有sha512sum选项，但是md5sum应该是存在所有版本。