



設定例

この章では、ルータでの一般的なネットワーキングタスクを設定する例を示します。この章に示されている例は、単なる説明用です。これらの例の背景情報はほとんど（またはまったく）提供されません。詳細については、[ソフトウェアのインストール](#)を参照してください。

さらに、この項を読む際には、ネットワークに関する設定は複雑であり、何通りにも設定できることに留意してください。この項の例は、ある設定を実現する1つの方法を示しているだけです。

この章には、次の例が記載されています。

- [TFTP サーバからルータに統合パッケージをコピーする例 \(1 ページ\)](#)
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- [デジタル署名付き Cisco ソフトウェア署名情報の表示 \(15 ページ\)](#)
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TFTP サーバからルータに統合パッケージをコピーする例

次に、TFTP サーバからルータに統合パッケージをコピーする例を示します。

```
Router# dir bootflash:
Directory of bootflash:/

   11  drwx           16384   Jul 2 2012 15:25:23 +00:00  lost+found
16225  drwx           4096   Jul 31 2012 19:30:48 +00:00  core
178465 drwx           4096   Sep 13 2012 17:48:41 +00:00  .prst_sync
324481 drwx           4096   Jul 2 2012 15:26:54 +00:00  .rollback_timer
   12  -rw-              0   Jul 2 2012 15:27:06 +00:00  tracelogs.696
373153 drwx          114688   Sep 13 2012 17:49:14 +00:00  tracelogs
32449  drwx           4096   Jul 2 2012 15:27:08 +00:00  .installer
681409 drwx           4096   Jul 31 2012 19:15:39 +00:00  .ssh
697633 drwx           4096   Jul 2 2012 15:27:08 +00:00  vman_fdb
```

ルータに保存されている統合パッケージを使用してブートするようにルータを設定する例

```

7451738112 bytes total (7015186432 bytes free)
Router# copy tftp bootflash:
Address or name of remote host []? 10.81.116.4
Source filename []? rtp-isr4400-54/isr4400.bin
Destination filename [isr4400.bin]?
Accessing tftp://10.81.116.4/rtp-isr4400-54/isr4400.bin...
Loading rtp-isr4400-54/isr4400.bin from 10.81.116.4 (via GigabitEthernet0): !!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
[OK - 424317088 bytes]

424317088 bytes copied in 371.118 secs (1143348 bytes/sec)
Router# dir bootflash:
Directory of bootflash:/

   11  drwx           16384   Jul 2 2012 15:25:23 +00:00  lost+found
16225  drwx           4096   Jul 31 2012 19:30:48 +00:00  core
178465 drwx           4096   Sep 13 2012 17:48:41 +00:00  .prst_sync
324481 drwx           4096   Jul 2 2012 15:26:54 +00:00  .rollback_timer
   12  -rw-              0   Jul 2 2012 15:27:06 +00:00  tracelogs.696
373153 drwx          114688   Sep 13 2012 18:05:07 +00:00  tracelogs
32449  drwx           4096   Jul 2 2012 15:27:08 +00:00  .installer
681409 drwx           4096   Jul 31 2012 19:15:39 +00:00  .ssh
697633 drwx           4096   Jul 2 2012 15:27:08 +00:00  vman_fdb
   13  -rw-    424317088   Sep 13 2012 18:01:41 +00:00  isr4400.bin

7451738112 bytes total (6590910464 bytes free)

```

ルータに保存されている統合パッケージを使用してブートするようにルータを設定する例

次に、ルータに保存されている統合パッケージを使用してブートするようルータを設定する例を示します。

```

Router# dir bootflash:
Directory of bootflash:/

   11  drwx           16384   Jul 2 2012 15:25:23 +00:00  lost+found
16225  drwx           4096   Jul 31 2012 19:30:48 +00:00  core
178465 drwx           4096   Sep 13 2012 17:48:41 +00:00  .prst_sync
324481 drwx           4096   Jul 2 2012 15:26:54 +00:00  .rollback_timer
   12  -rw-              0   Jul 2 2012 15:27:06 +00:00  tracelogs.696
373153 drwx          114688   Sep 13 2012 18:05:07 +00:00  tracelogs
32449  drwx           4096   Jul 2 2012 15:27:08 +00:00  .installer
681409 drwx           4096   Jul 31 2012 19:15:39 +00:00  .ssh
697633 drwx           4096   Jul 2 2012 15:27:08 +00:00  vman_fdb
   13  -rw-    424317088   Sep 13 2012 18:01:41 +00:00  isr4400.bin

7451738112 bytes total (6590910464 bytes free)

```

```

Router# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# boot system bootflash:isr4400.bin
Router(config)# config-register 0x2102
Router(config)# exit
Router# show run | include boot
boot-start-marker
boot system bootflash:isr4400.bin
boot-end-marker

```

```
license boot level adventerprise
Router# copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router# reload
Proceed with reload? [confirm]
Sep 13 18:08:36.311 R0/0: %PMAN-5-EXITACTION: Process manager is exiting: process exit
with reload chassis code

Initializing Hardware ...

System integrity status: c0000600
Failures detected:
  Boot FPGA corrupt

Key Sectors: (Primary,GOOD), (Backup,GOOD), (Revocation,GOOD)
Size of Primary = 2288 Backup = 2288 Revocation = 300

ROM:RSA Self Test Passed
ROM:Sha512 Self Test Passed
Self Tests Latency: 58 msec

System Bootstrap, Version 12.2(20120618:163328) [username-ESGROM_20120618_GAMMA 101],
DEVELOPMENT SOFTWARE
Copyright (c) 1994-2012 by cisco Systems, Inc.
Compiled Mon 06/18/2012 12:39:32.05 by username

Current image running: Boot ROM0

Last reset cause: LocalSoft

Cisco ISR 4400 platform with 4194304 Kbytes of main memory

File size is 0x194a90a0
Located isr4400.bin
Image size 424317088 inode num 13, bks cnt 103594 blk size 8*512
#####
Boot image size = 424317088 (0x194a90a0) bytes

ROM:RSA Self Test Passed
ROM:Sha512 Self Test Passed
Self Tests Latency: 58 msec

Package header rev 1 structure detected
Calculating SHA-1 hash...done
validate_package: SHA-1 hash:
  calculated 7294dfc:892a6c35:a7a133df:18c032fc:0670b303
  expected   7294dfc:892a6c35:a7a133df:18c032fc:0670b303
Signed Header Version Based Image Detected

Using FLASH based Keys of type = PRIMARY KEY STORAGE
Using FLASH based Keys of type = ROLLOVER KEY STORAGE
RSA Signed DEVELOPMENT Image Signature Verification Successful.
Package Load Test Latency : 5133 msec
Image validated
%IOSXEBOOT-4-BOOT_ACTIVITY_LONG_TIME: (local/local): load_modules took: 2 seconds,
expected
max time 2 seconds
```

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Cisco IOS Software, IOS-XE Software (X86_64_LINUX_IOSD-UNIVERSALK9-M), Experimental Version
15.3(20120910:013018) [mcp_dev-BLD-BLD_MCP_DEV_LATEST_20120910_000023-ios 153]
Copyright (c) 1986-2012 by Cisco Systems, Inc.
Compiled Sun 09-Sep-12 21:28 by mcpre

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A summary of U.S. laws governing Cisco cryptographic products may be found at: <http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to export@cisco.com.

Warning: the compile-time code checksum does not appear to be present.
cisco ISR4451/K9 (2RU) processor with 1133589K/6147K bytes of memory.
Processor board ID FGL1619100P
4 Gigabit Ethernet interfaces
32768K bytes of non-volatile configuration memory.
4194304K bytes of physical memory.
7393215K bytes of Compact flash at bootflash:.
7816688K bytes of USB flash at usb0:.

Press RETURN to get started!

統合パッケージから同じファイルシステムにサブパッケージを抽出する

次に、統合パッケージから同じファイルシステムにサブパッケージを抽出する例を示します。

request platform software package expand file bootflash:isr4400.bin コマンド (to オプションが使用されていない点に注意) を入力すると、統合パッケージのサブパッケージが **bootflash:** に解凍されます。

```
Router> enable
Router# dir bootflash:
Directory of bootflash:/

   11  drwx           16384   Jul 2 2012 15:25:23 +00:00  lost+found
16225  drwx           4096   Jul 31 2012 19:30:48 +00:00  core
178465 drwx           4096   Sep 13 2012 18:12:58 +00:00  .prst_sync
324481 drwx           4096   Jul 2 2012 15:26:54 +00:00  .rollback_timer
   12  -rw-             0   Jul 2 2012 15:27:06 +00:00  tracelogs.696
373153 drwx          114688   Sep 13 2012 18:13:31 +00:00  tracelogs
32449  drwx           4096   Jul 2 2012 15:27:08 +00:00  .installer
681409 drwx           4096   Jul 31 2012 19:15:39 +00:00  .ssh
697633 drwx           4096   Jul 2 2012 15:27:08 +00:00  vman_fdb
   13  -rw-         424317088 Sep 13 2012 18:01:41 +00:00  isr4400.bin

7451738112 bytes total (6590029824 bytes free)
Router# request platform software package expand file bootflash:isr4400.bin
Verifying parameters
Validating package type
Copying package files
SUCCESS: Finished expanding all-in-one software package.
Router# dir bootflash:
Directory of bootflash:/

   11  drwx           16384   Jul 2 2012 15:25:23 +00:00  lost+found
16225  drwx           4096   Jul 31 2012 19:30:48 +00:00  core
178465 drwx           4096   Sep 13 2012 18:12:58 +00:00  .prst_sync
324481 drwx           4096   Jul 2 2012 15:26:54 +00:00  .rollback_timer
   12  -rw-             0   Jul 2 2012 15:27:06 +00:00  tracelogs.696
373153 drwx          114688   Sep 13 2012 18:16:49 +00:00  tracelogs
32449  drwx           4096   Jul 2 2012 15:27:08 +00:00  .installer
681409 drwx           4096   Jul 31 2012 19:15:39 +00:00  .ssh
697633 drwx           4096   Jul 2 2012 15:27:08 +00:00  vman_fdb
   13  -rw-         424317088 Sep 13 2012 18:01:41 +00:00  isr4400.bin
778756 -rw-          112911096 Sep 13 2012 18:15:49 +00:00
isr4400-espbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
778757 -rw-           2220784 Sep 13 2012 18:15:49 +00:00
isr4400-firmware_dsp_sp2700.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
778758 -rw-           371440 Sep 13 2012 18:15:49 +00:00
isr4400-firmware_fpge.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
778759 -rw-           8080112 Sep 13 2012 18:15:49 +00:00
isr4400-firmware_nim_t1e1.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
778760 -rw-           9331440 Sep 13 2012 18:15:49 +00:00
isr4400-firmware_sm_1t3e3.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
778761 -rw-           379632 Sep 13 2012 18:15:49 +00:00
isr4400-firmware_ucse.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
--More--          778754  -rw-           10540 Sep 13 2012 18:15:48 +00:00
isr4400-packages-universalk9.BLD_MCP_DEV_LATEST_20120910_000023.conf
778762 -rw-           27218680 Sep 13 2012 18:15:50 +00:00
isr4400-rpaccess.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
778763 -rw-           78938264 Sep 13 2012 18:15:50 +00:00
isr4400-rpbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
778764 -rw-           45177592 Sep 13 2012 18:15:50 +00:00
isr4400-rpcontrol.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
778765 -rw-          114662144 Sep 13 2012 18:16:01 +00:00
isr4400-rpios-universalk9.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
778766 -rw-          26360568 Sep 13 2012 18:16:03 +00:00
isr4400-sipbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
```

```

778767 -rw-      13091576 Sep 13 2012 18:16:06 +00:00
isr4400-sipsa.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
778755 -rw-          11349 Sep 13 2012 18:16:06 +00:00 packages.conf

7451738112 bytes total (6150725632 bytes free)

```

統合パッケージから別のファイルシステムにサブパッケージを抽出する

次に、統合パッケージから別のファイルシステムにサブパッケージを抽出する例を示します。

最初の **dir usb0:** コマンドは、**bootflash:** ディレクトリ内にサブパッケージがないことを示しています。

request platform software package expand file usb0:isr4400.bin to bootflash: コマンドの入力後に、**bootflash:** ディレクトリにサブパッケージが表示されます。isr4400.bin 統合パッケージファイルは **usb0:** ディレクトリの中にあります。

```

Router# dir usb0:
Directory of usb0:/

 121 -rwx   424317088 Sep 13 2012 18:27:50 +00:00 isr4400.bin

7988666368 bytes total (7564341248 bytes free)

Router# dir bootflash:
Directory of bootflash:/

 11 drwx      16384 Jul 2 2012 15:25:23 +00:00 lost+found
16225 drwx      4096 Jul 31 2012 19:30:48 +00:00 core
178465 drwx      4096 Sep 13 2012 18:12:58 +00:00 .prst_sync
324481 drwx      4096 Jul 2 2012 15:26:54 +00:00 .rollback_timer
 12 -rw-         0 Jul 2 2012 15:27:06 +00:00 tracelogs.696
373153 drwx     114688 Sep 13 2012 18:41:51 +00:00 tracelogs
32449 drwx      4096 Jul 2 2012 15:27:08 +00:00 .installer
681409 drwx      4096 Jul 31 2012 19:15:39 +00:00 .ssh
697633 drwx      4096 Jul 2 2012 15:27:08 +00:00 vman_fdb

7451738112 bytes total (6590418944 bytes free)
Router# request platform software package expand file usb0:isr4400.bin to bootflash:
Verifying parameters
Validating package type
Copying package files
SUCCESS: Finished expanding all-in-one software package.
Router# dir bootflash:
Directory of bootflash:/
11 drwx      16384 Jul 2 2012 15:25:23 +00:00 lost+found
16225 drwx      4096 Jul 31 2012 19:30:48 +00:00 core
178465 drwx      4096 Sep 13 2012 18:12:58 +00:00 .prst_sync
324481 drwx      4096 Jul 2 2012 15:26:54 +00:00 .rollback_timer
 12 -rw-         0 Jul 2 2012 15:27:06 +00:00 tracelogs.696
373153 drwx     114688 Sep 13 2012 18:46:52 +00:00 tracelogs
32449 drwx      4096 Jul 2 2012 15:27:08 +00:00 .installer
681409 drwx      4096 Jul 31 2012 19:15:39 +00:00 .ssh
697633 drwx      4096 Jul 2 2012 15:27:08 +00:00 vman_fdb
454276 -rw-     112911096 Sep 13 2012 18:46:05 +00:00
isr4400-espbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454277 -rw-      2220784 Sep 13 2012 18:46:05 +00:00

```

```

isr4400-firmware_dsp_sp2700.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454278 -rw-      371440  Sep 13 2012 18:46:05 +00:00
isr4400-firmware_fpge.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454279 -rw-      8080112 Sep 13 2012 18:46:05 +00:00
isr4400-firmware_nim_t1e1.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454280 -rw-      9331440 Sep 13 2012 18:46:06 +00:00
isr4400-firmware_sm_1t3e3.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454281 -rw-      379632  Sep 13 2012 18:46:06 +00:00
isr4400-firmware_ucse.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
--More--      454274  -rw-      10540  Sep 13 2012 18:46:05 +00:00
isr4400-packages-universalk9.BLD_MCP_DEV_LATEST_20120910_000023.conf
454282 -rw-      27218680 Sep 13 2012 18:46:06 +00:00
isr4400-rpaccess.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454283 -rw-      78938264 Sep 13 2012 18:46:06 +00:00
isr4400-rpbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454284 -rw-      45177592 Sep 13 2012 18:46:06 +00:00
isr4400-rpcontrol.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454285 -rw-     114662144 Sep 13 2012 18:46:16 +00:00
isr4400-rpios-universalk9.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454286 -rw-      26360568 Sep 13 2012 18:46:19 +00:00
isr4400-sipbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454287 -rw-      13091576 Sep 13 2012 18:46:21 +00:00
isr4400-sipspa.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454275 -rw-       11349  Sep 13 2012 18:46:21 +00:00  packages.conf

7451738112 bytes total (6575869952 bytes free)

```

サブパッケージを使用してブートするようルータを設定する

プロビジョニングファイルとサブパッケージファイルをディレクトリに格納して、ルータを起動した後は、これらのファイルの名前変更、削除、変更を行わないようにしてください。ファイルの名前変更、削除、またはその他の変更を行うと、ルータで予期せぬ問題および動作が発生する可能性があります。統合パッケージの各バージョンには、たとえば次の表に示すようなサブパッケージが含まれています。ただし、統合パッケージの各バージョンには、各サブパッケージの異なるバージョンが含まれていることがあります。

表 1: サブパッケージ

サブパッケージ	説明
RPBase	ルートプロセッサ (RP) のオペレーティングシステム ソフトウェアを提供します。これは、唯一の起動可能なパッケージです。
RPCControl	Cisco IOS プロセスとプラットフォームの他の部分との間のインターフェイスとなるコントロールプレーンプロセスを制御します。
RPAccess	セキュアソケットレイヤ (SSL)、セキュアシェル (SSH)、その他のセキュリティ機能など、制限付きコンポーネントの処理をエクスポートします。

サブパッケージを使用してブートするようルータを設定する

サブパッケージ	説明
RPIOS	Cisco IOS XE 機能が保存および実行される場所となる Cisco IOS カーネルを提供します。各統合パッケージには、異なるバージョンの RPIOS が含まれています。
ESPBase	Embedded Services Processor (ESP) オペレーティングシステム、制御プロセス、および ESP ソフトウェアを提供します。
SIPBase	制御プロセスを提供します。
SIPSPA	入出力 (I/O) ドライバを提供します。
Firmware	ファームウェアサブパッケージ。サブパッケージ名には、ネットワーク情報モジュール (NIM) または Cisco 拡張サービス モジュールのいずれかを示すモジュールタイプが含まれています。

次の例は、サブパッケージを使って起動するようルータを設定する方法を示しています。

次の例に示すように、**dir bootflash:** コマンドにより、すべてのサブパッケージとプロビジョニングファイルが確実に同じファイルシステムに存在するようになります。

```
Router# dir bootflash:
Directory of bootflash:/

   11  drwx           16384   Jul 2 2012 15:25:23 +00:00  lost+found
16225  drwx           4096   Jul 31 2012 19:30:48 +00:00  core
178465 drwx           4096   Sep 13 2012 18:12:58 +00:00  .prst_sync
324481 drwx           4096   Jul 2 2012 15:26:54 +00:00  .rollback_timer
   12  -rw-             0   Jul 2 2012 15:27:06 +00:00  tracelogs.696
373153 drwx          114688   Sep 13 2012 18:46:52 +00:00  tracelogs
32449  drwx           4096   Jul 2 2012 15:27:08 +00:00  .installer
681409 drwx           4096   Jul 31 2012 19:15:39 +00:00  .ssh
697633 drwx           4096   Jul 2 2012 15:27:08 +00:00  vman_fdb
454276 -rw-          112911096   Sep 13 2012 18:46:05 +00:00
isr4400-espbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454277 -rw-           2220784   Sep 13 2012 18:46:05 +00:00
isr4400-firmware_dsp_sp2700.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454278 -rw-           371440   Sep 13 2012 18:46:05 +00:00
isr4400-firmware_fpge.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454279 -rw-           8080112   Sep 13 2012 18:46:05 +00:00
isr4400-firmware_nim_t1e1.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454280 -rw-           9331440   Sep 13 2012 18:46:06 +00:00
isr4400-firmware_sm_1t3e3.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454281 -rw-           379632   Sep 13 2012 18:46:06 +00:00
isr4400-firmware_ucse.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
--More--
 454274 -rw-             10540   Sep 13 2012 18:46:05 +00:00
isr4400-packages-universalk9.BLD_MCP_DEV_LATEST_20120910_000023.conf
454282 -rw-          27218680   Sep 13 2012 18:46:06 +00:00
isr4400-rpaccess.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454283 -rw-          78938264   Sep 13 2012 18:46:06 +00:00
isr4400-rpbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454284 -rw-          45177592   Sep 13 2012 18:46:06 +00:00
isr4400-rpcontrol.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454285 -rw-          114662144   Sep 13 2012 18:46:16 +00:00
isr4400-rpios-universalk9.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454286 -rw-          26360568   Sep 13 2012 18:46:19 +00:00
isr4400-sipbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454287 -rw-          13091576   Sep 13 2012 18:46:21 +00:00
```



```
isr4400-sipsa.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454275 -rw-          11349 Sep 13 2012 18:46:21 +00:00 packages.conf

7451738112 bytes total (6575869952 bytes free)

Router# show running | include boot
boot-start-marker
boot-end-marker
license boot level adverterprise
Router# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# boot system bootflash:packages.conf
Router(config)# config-register 0x2102
Router(config)# exit
Router# show running | include boot
boot-start-marker
boot system bootflash:packages.conf
boot-end-marker
license boot level adverterprise
Router# copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
Router# reload
Proceed with reload? [confirm]
Sep 13 18:49:39.720 R0/0: %PMAN-5-EXITACTION: Process manager is exiting: process exit
with reload chassis code

Initializing Hardware ...

System integrity status: c0000600
Failures detected:
  Boot FPGA corrupt

Key Sectors: (Primary,GOOD), (Backup,GOOD), (Revocation,GOOD)
Size of Primary = 2288 Backup = 2288 Revocation = 300

ROM:RSA Self Test Passed
ROM:Sha512 Self Test Passed
Self Tests Latency: 58 msec

System Bootstrap, Version 12.2(20120618:163328) [username-ESGROM_20120618_GAMMA 101],
DEVELOPMENT SOFTWARE
Copyright (c) 1994-2012 by cisco Systems, Inc.
Compiled Mon 06/18/2012 12:39:32.05 by username

Current image running: Boot ROM0

Last reset cause: LocalSoft

Cisco ISR 4400 platform with 4194304 Kbytes of main memory

File size is 0x00002c55
Located packages.conf
Image size 11349 inode num 454275, bks cnt 3 blk size 8*512
#
File size is 0x04b48098
Located isr4400-rpbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
Image size 78938264 inode num 454283, bks cnt 19273 blk size 8*512
=====
Boot image size = 78938264 (0x4b48098) bytes
```

```
ROM:RSA Self Test Passed
ROM:Sha512 Self Test Passed
Self Tests Latency: 58 msec
```

```
Package header rev 1 structure detected
Calculating SHA-1 hash...done
validate_package: SHA-1 hash:
  calculated db960a6:d239245c:76d93622:d6c31a41:40e9e420
  expected db960a6:d239245c:76d93622:d6c31a41:40e9e420
Signed Header Version Based Image Detected
```

```
Using FLASH based Keys of type = PRIMARY KEY STORAGE
Using FLASH based Keys of type = ROLLOVER KEY STORAGE
RSA Signed DEVELOPMENT Image Signature Verification Successful.
Package Load Test Latency : 1159 msec
Image validated
```

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cisco Systems, Inc.
170 West Tasman Drive
San Jose, California 95134-1706

Cisco IOS Software, IOS-XE Software (X86_64_LINUX_IOSD-UNIVERSALK9-M), Experimental Version 15.3(20120910:013018) [mcp_dev-BLD-BLD_MCP_DEV_LATEST_20120910_000023-ios 153] Copyright (c) 1986-2012 by Cisco Systems, Inc.
Compiled Sun 09-Sep-12 21:28 by mcpre

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If you require further assistance please contact us by sending email to export@cisco.com.

```
Warning: the compile-time code checksum does not appear to be present.
cisco ISR4451/K9 (2RU) processor with 1133589K/6147K bytes of memory.
Processor board ID FGL1619100P
4 Gigabit Ethernet interfaces
32768K bytes of non-volatile configuration memory.
4194304K bytes of physical memory.
7393215K bytes of Compact flash at bootflash:.
7816688K bytes of USB flash at usb0:.
```

Press RETURN to get started!

```
Router>
Router> en
Router# show version
Cisco IOS XE Software, Version BLD_V154_3_S_XE313_THROTTLE_LATEST_20140527_070027-ext
Cisco IOS Software, ISR Software (X86_64_LINUX_IOSD-UNIVERSALK9-M), Experimental Version
 15.4(20140527:095327)
[v154_3_s_xe313_throttle-BLD-BLD_V154_3_S_XE313_THROTTLE_LATEST_20140527_070027-ios 156]
```

IOS XE Version: BLD_V154_3_S_XE313_THROTTLE_LATEST

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ROM: IOS-XE ROMMON

```
Router uptime is 1 minute
Uptime for this control processor is 4 minutes
--More--          System returned to ROM by reload
System image file is "bootflash:packages.conf"
Last reload reason: Reload Command
```

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```
License Level: adventerprise
License Type: EvalRightToUse
--More--          Next reload license Level: adventerprise
```

cisco ISR4451/K9 (2RU) processor with 1133589K/6147K bytes of memory.

サブパッケージを使用してブートするようルータを設定する

```
Processor board ID FGL1619100P
4 Gigabit Ethernet interfaces
32768K bytes of non-volatile configuration memory.
4194304K bytes of physical memory.
7393215K bytes of Compact flash at bootflash:.
7816688K bytes of USB flash at usb0:.
```

```
Configuration register is 0x2102
```

```
Router# dir bootflash:
```

```
Directory of bootflash:/
```

```
   11 drwx      16384 Jul 2 2012 15:25:23 +00:00 lost+found
 16225 drwx      4096 Jul 31 2012 19:30:48 +00:00 core
178465 drwx      4096 Sep 13 2012 18:53:29 +00:00 .prst_sync
324481 drwx      4096 Jul 2 2012 15:26:54 +00:00 .rollback_timer
   12 -rw-         0 Jul 2 2012 15:27:06 +00:00 tracelogs.696
373153 drwx     114688 Sep 13 2012 18:54:03 +00:00 tracelogs
32449  drwx      4096 Jul 2 2012 15:27:08 +00:00 .installer
681409 drwx      4096 Jul 31 2012 19:15:39 +00:00 .ssh
697633 drwx      4096 Jul 2 2012 15:27:08 +00:00 vman_fdb
454276 -rw-    112911096 Sep 13 2012 18:46:05 +00:00
isr4400-espbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454277 -rw-     2220784 Sep 13 2012 18:46:05 +00:00
isr4400-firmware_dsp_sp2700.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454278 -rw-     371440 Sep 13 2012 18:46:05 +00:00
isr4400-firmware_fpge.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454279 -rw-     8080112 Sep 13 2012 18:46:05 +00:00
isr4400-firmware_nim_t1e1.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454280 -rw-     9331440 Sep 13 2012 18:46:06 +00:00
isr4400-firmware_sm_lt3e3.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454281 -rw-     379632 Sep 13 2012 18:46:06 +00:00
isr4400-firmware_ucse.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
--More-- 454274 -rw-         10540 Sep 13 2012 18:46:05 +00:00
isr4400-packages-universalk9.BLD_MCP_DEV_LATEST_20120910_000023.conf
454282 -rw-     27218680 Sep 13 2012 18:46:06 +00:00
isr4400-rpaccess.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454283 -rw-     78938264 Sep 13 2012 18:46:06 +00:00
isr4400-rpbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454284 -rw-     45177592 Sep 13 2012 18:46:06 +00:00
isr4400-rpcontrol.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454285 -rw-    114662144 Sep 13 2012 18:46:16 +00:00
isr4400-rpios-universalk9.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454286 -rw-     26360568 Sep 13 2012 18:46:19 +00:00
isr4400-sipbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454287 -rw-     13091576 Sep 13 2012 18:46:21 +00:00
isr4400-sipsa.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg
454275 -rw-         11349 Sep 13 2012 18:46:21 +00:00 packages.conf
```

```
7451738112 bytes total (6574940160 bytes free)
```

```
Router# del isr4400*
```

```
Delete filename [isr4400*]?
```

```
Delete bootflash:/isr4400-espbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg? [confirm]
```

```
Delete bootflash:/isr4400-firmware_dsp_sp2700.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg?
[confirm]
```

```
Delete bootflash:/isr4400-firmware_fpge.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg?
[confirm]
```

```
Delete bootflash:/isr4400-firmware_nim_t1e1.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg?
[confirm]
```

```
Delete bootflash:/isr4400-firmware_sm_lt3e3.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg?
[confirm]
```

```
Delete bootflash:/isr4400-firmware_ucse.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg?
[confirm]
```

```

Delete bootflash:/isr4400-packages-universalk9.BLD_MCP_DEV_LATEST_20120910_000023.conf?
[confirm]
Delete bootflash:/isr4400-rpaccess.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg? [confirm]
Delete bootflash:/isr4400-rpbase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg? [confirm]
Delete bootflash:/isr4400-rpcontrol.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg? [confirm]
Delete bootflash:/isr4400-rpios-universalk9.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg?
[confirm]
Delete bootflash:/isr4400-sibase.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg? [confirm]
Delete bootflash:/isr4400-sipsa.BLD_MCP_DEV_LATEST_20120910_000023.SSA.pkg? [confirm]
Router# dir bootflash:
Directory of bootflash:/

   11  drwx           16384  Jul 2 2012 15:25:23 +00:00  lost+found
  16225  drwx           4096  Jul 31 2012 19:30:48 +00:00  core
 178465  drwx           4096  Sep 13 2012 18:53:29 +00:00  .prst_sync
 324481  drwx           4096   Jul 2 2012 15:26:54 +00:00  .rollback_timer
    12  -rw-              0   Jul 2 2012 15:27:06 +00:00  tracelogs.696
 373153  drwx          114688  Sep 13 2012 18:54:03 +00:00  tracelogs
 32449  drwx           4096   Jul 2 2012 15:27:08 +00:00  .installer
 681409  drwx           4096   Jul 31 2012 19:15:39 +00:00  .ssh
 697633  drwx           4096   Jul 2 2012 15:27:08 +00:00  vman_fdb
 454275  -rw-          11349  Sep 13 2012 18:46:21 +00:00  packages.conf

7451738112 bytes total (6574952448 bytes free)
Router# del packages.conf
Delete filename [packages.conf]?
Delete bootflash:/packages.conf? [confirm]
Router# copy tftp bootflash:
Address or name of remote host []? 10.81.116.4
Source filename []? rtp-isr4400-54/isr4400.bin
Destination filename [isr4400.bin]?
Accessing tftp://10.81.116.4/rtp-isr4400-54/isr4400.bin...
Loading rtp-isr4400-54/isr4400.bin from 10.81.116.4 (via GigabitEthernet0):
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
[OK - 424317088 bytes]

424317088 bytes copied in 351.758 secs (1206276 bytes/sec)

```

コンフィギュレーションファイルのバックアップ

ここで紹介する例は、次のとおりです。

- スタートアップ コンフィギュレーションファイルをブートフラッシュにコピーする (14 ページ)
- スタートアップ コンフィギュレーションファイルを USB フラッシュ ドライブにコピーする (14 ページ)
- スタートアップ コンフィギュレーションファイルを TFTP サーバにコピーする例 (15 ページ)

スタートアップコンフィギュレーションファイルをブートフラッシュにコピーする

```

Router# dir bootflash:
Directory of bootflash:/

   11  drwx           16384  Jul 2 2012 15:25:23 +00:00  lost+found
16225  drwx           4096  Jul 31 2012 19:30:48 +00:00  core
178465 drwx           4096  Sep 13 2012 18:53:29 +00:00  .prst_sync
324481 drwx           4096  Jul 2 2012 15:26:54 +00:00  .rollback_timer
   12  -rw-             0  Jul 2 2012 15:27:06 +00:00  tracelogs.696
373153 drwx          114688  Sep 13 2012 19:03:19 +00:00  tracelogs
32449  drwx           4096  Jul 2 2012 15:27:08 +00:00  .installer
681409 drwx           4096  Jul 31 2012 19:15:39 +00:00  .ssh
697633 drwx           4096  Jul 2 2012 15:27:08 +00:00  vman_fdb
   13  -rw-       424317088  Sep 13 2012 19:02:50 +00:00  isr4400.bin

7451738112 bytes total (6150721536 bytes free)
Router# copy nvram:startup-config bootflash:
Destination filename [startup-config]?
1367 bytes copied in 0.116 secs (11784 bytes/sec)
Router# dir bootflash:
Directory of bootflash:/

   11  drwx           16384  Jul 2 2012 15:25:23 +00:00  lost+found
16225  drwx           4096  Jul 31 2012 19:30:48 +00:00  core
178465 drwx           4096  Sep 13 2012 18:53:29 +00:00  .prst_sync
324481 drwx           4096  Jul 2 2012 15:26:54 +00:00  .rollback_timer
   12  -rw-             0  Jul 2 2012 15:27:06 +00:00  tracelogs.696
373153 drwx          114688  Sep 13 2012 19:03:19 +00:00  tracelogs
32449  drwx           4096  Jul 2 2012 15:27:08 +00:00  .installer
681409 drwx           4096  Jul 31 2012 19:15:39 +00:00  .ssh
697633 drwx           4096  Jul 2 2012 15:27:08 +00:00  vman_fdb
   13  -rw-       424317088  Sep 13 2012 19:02:50 +00:00  isr4400.bin
   14  -rw-           1367  Sep 13 2012 19:03:57 +00:00  startup-config

7451738112 bytes total (6150717440 bytes free)
Router# copy bootflash:startup-config tftp:
Address or name of remote host []? 172.18.40.33
Destination filename [router-config]? startup-config
!!
1367 bytes copied in 0.040 secs (34175 bytes/sec)
Router# exit

Router con0 is now available

Press RETURN to get started.

```

スタートアップコンフィギュレーションファイルをUSBフラッシュドライブにコピーする

```

Router# dir usb0:
Directory of usb0:/

No files in directory

```

```

4094840832 bytes total (4094836736 bytes free)
Router# copy nvram:startup-config usb0:
Destination filename [startup-config]?
1644 bytes copied in 0.248 secs (6629 bytes/sec)
Router# dir usb0:
Directory of usb0:/

3097_-rwx_____1644__ Oct 3 2012 14:53:50 +00:00__startup-config

4094840832 bytes total (4094832640 bytes free)
Router#

```

スタートアップコンフィギュレーションファイルを TFTP サーバにコピーする例

```

Router# copy nvram:startup-config tftp:
Address or name of remote host []? 172.18.40.4
Destination filename [router-config]?
!!
3274 bytes copied in 0.039 secs (83949 bytes/sec)
Router#

```

デジタル署名付き Cisco ソフトウェア署名情報の表示

次の例では、統合パッケージの真正性の詳細が画面に表示されています。

```

router# show software authenticity running
PACKAGE isr4400-rpbase.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
-----
Image type                : Special
  Signer Information
    Common Name            : CiscoSystems
    Organization Unit      : IOS-XE
    Organization Name      : CiscoSystems
    Certificate Serial Number : 50F48E17
    Hash Algorithm         : SHA512
    Signature Algorithm     : 2048-bit RSA
    Key Version            : A

  Verifier Information
    Verifier Name          : rp_base
    Verifier Version       : BLD_MCP_DEV_LATEST_20130114_162711

PACKAGE isr4400-rpcontrol.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
-----
Image type                : Special
  Signer Information
    Common Name            : CiscoSystems
    Organization Unit      : IOS-XE
    Organization Name      : CiscoSystems
    Certificate Serial Number : 50F48DA3
    Hash Algorithm         : SHA512
    Signature Algorithm     : 2048-bit RSA
    Key Version            : A

  Verifier Information
    Verifier Name          : rp_base
    Verifier Version       : BLD_MCP_DEV_LATEST_20130114_162711

```

```
PACKAGE isr4400-rpios-universalk9.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
```

```
-----  
Image type : Special  
  Signer Information  
    Common Name : CiscoSystems  
    Organization Unit : IOS-XE  
    Organization Name : CiscoSystems  
    Certificate Serial Number : 50F48E98  
    Hash Algorithm : SHA512  
    Signature Algorithm : 2048-bit RSA  
    Key Version : A  
  
  Verifier Information  
    Verifier Name : rp_base  
    Verifier Version : BLD_MCP_DEV_LATEST_20130114_162711
```

```
PACKAGE isr4400-rpaccess.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
```

```
-----  
Image type : Special  
  Signer Information  
    Common Name : CiscoSystems  
    Organization Unit : IOS-XE  
    Organization Name : CiscoSystems  
    Certificate Serial Number : 50F48DB4  
    Hash Algorithm : SHA512  
    Signature Algorithm : 2048-bit RSA  
    Key Version : A  
  
  Verifier Information  
    Verifier Name : rp_base  
    Verifier Version : BLD_MCP_DEV_LATEST_20130114_162711
```

```
PACKAGE isr4400-firmware_dsp_sp2700.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
```

```
-----  
Image type : Special  
  Signer Information  
    Common Name : CiscoSystems  
    Organization Unit : IOS-XE  
    Organization Name : CiscoSystems  
    Certificate Serial Number : 50F48DBE  
    Hash Algorithm : SHA512  
    Signature Algorithm : 2048-bit RSA  
    Key Version : A  
  
  Verifier Information  
    Verifier Name : rp_base  
    Verifier Version : BLD_MCP_DEV_LATEST_20130114_162711
```

```
PACKAGE isr4400-firmware_sm_1t3e3.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
```

```
-----  
Image type : Special  
  Signer Information  
    Common Name : CiscoSystems  
    Organization Unit : IOS-XE  
    Organization Name : CiscoSystems  
    Certificate Serial Number : 50F48DC7  
    Hash Algorithm : SHA512  
    Signature Algorithm : 2048-bit RSA  
    Key Version : A  
  
  Verifier Information  
    Verifier Name : rp_base  
    Verifier Version : BLD_MCP_DEV_LATEST_20130114_162711
```



```
PACKAGE isr4400-firmware_nim_t1e1.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
```

```
-----  
Image type : Special  
  Signer Information  
    Common Name : CiscoSystems  
    Organization Unit : IOS-XE  
    Organization Name : CiscoSystems  
    Certificate Serial Number : 50F48D74  
    Hash Algorithm : SHA512  
    Signature Algorithm : 2048-bit RSA  
    Key Version : A  
  
  Verifier Information  
    Verifier Name : rp_base  
    Verifier Version : BLD_MCP_DEV_LATEST_20130114_162711
```

```
PACKAGE isr4400-espbase.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
```

```
-----  
Image type : Special  
  Signer Information  
    Common Name : CiscoSystems  
    Organization Unit : IOS-XE  
    Organization Name : CiscoSystems  
    Certificate Serial Number : 50F48D64  
    Hash Algorithm : SHA512  
    Signature Algorithm : 2048-bit RSA  
    Key Version : A  
  
  Verifier Information  
    Verifier Name : rp_base  
    Verifier Version : BLD_MCP_DEV_LATEST_20130114_162711
```

```
PACKAGE isr4400-sipbase.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
```

```
-----  
Image type : Special  
  Signer Information  
    Common Name : CiscoSystems  
    Organization Unit : IOS-XE  
    Organization Name : CiscoSystems  
    Certificate Serial Number : 50F48D94  
    Hash Algorithm : SHA512  
    Signature Algorithm : 2048-bit RSA  
    Key Version : A  
  
  Verifier Information  
    Verifier Name : rp_base  
    Verifier Version : BLD_MCP_DEV_LATEST_20130114_162711
```

```
PACKAGE isr4400-sipspa.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
```

```
-----  
Image type : Special  
  Signer Information  
    Common Name : CiscoSystems  
    Organization Unit : IOS-XE  
    Organization Name : CiscoSystems  
    Certificate Serial Number : 50F48D7F  
    Hash Algorithm : SHA512  
    Signature Algorithm : 2048-bit RSA  
    Key Version : A  
  
  Verifier Information  
    Verifier Name : rp_base  
    Verifier Version : BLD_MCP_DEV_LATEST_20130114_162711
```

```

SYSTEM IMAGE
-----
Image type                : Special
  Signer Information
    Common Name           : CiscoSystems
    Organization Unit     : IOS-XE
    Organization Name     : CiscoSystems
    Certificate Serial Number : 50F48F33
    Hash Algorithm        : SHA512
    Signature Algorithm    : 2048-bit RSA
    Key Version           : A

  Verifier Information
    Verifier Name         : ROMMON
    Verifier Version      : System Bootstrap, Version 12.2(20121015:145923
ROMMON
-----
Image type                : Special
  Signer Information
    Common Name           : CiscoSystems
    Organization Unit     : IOS-XE
    Organization Name     : CiscoSystems
    Certificate Serial Number : 50801108
    Hash Algorithm        : SHA512
    Signature Algorithm    : 2048-bit RSA
    Key Version           : A

  Verifier Information
    Verifier Name         : ROMMON
    Verifier Version      : System Bootstrap, Version 12.2(20121015:145923
Microloader
-----
Image type                : Release
  Signer Information
    Common Name           : CiscoSystems
    Organization Name     : CiscoSystems
    Certificate Serial Number : bace997bdd9882f8569e5b599328a448
    Hash Algorithm        : HMAC-SHA256
  Verifier Information
    Verifier Name         : Hardware Anchor
    Verifier Version      : F01001R06.02c4c06f82012-09-17

```

モジュールまたは統合パッケージの説明を取得する

この例では、統合パッケージの内容の詳細が画面に表示されます。

```

router# request platform software package describe file
bootflash:isr4400-rpbase.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
Package: isr4400-rpbase.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg
Size: 79755832
Timestamp: 2013-01-15 15:46:59 UTC
Canonical path: /bootflash/isr4400-rpbase.BLD_MCP_DEV_LATEST_20130114_162711.SSA.pkg

Raw disk-file SHA1sum:
5cd5916a216b147e3d9e33c0dc5afb18d86bda94

Digital Signature Verified
Computed SHA1sum:
de80d5920819d224113b81a1d64b17449859952e

```

```
Contained SHA1sum:
  de80d5920819d224113b81a1d64b17449859952e
Hashes match. Package is valid.

Header size:      760 bytes
Package type:    30001
Package flags:   0
Header version:  1

Internal package information:
  Name: rp_base
  BuildTime: 2013-01-14_14.55
  ReleaseDate: Mon-14-Jan-13-16:27
  BootArchitecture: i686
  RouteProcessor: overlord
  Platform: ISR
  User: mcpre
  PackageName: rpbase
  Build: BLD_MCP_DEV_LATEST_20130114_162711
  CardTypes:

Package is bootable on RP when specified
by packages provisioning file.
```

■ モジュールまたは統合パッケージの説明を取得する

翻訳について

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