

使用GUI和控制台更改Informacast中的网络设置

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简介

本文档介绍如何使用图形用户界面(GUI)和控制台更改和排除思科基本分页(InformaCast)中的网络设置故障。

先决条件

要求

Cisco 建议您了解以下主题：

- 思科基本寻呼
- Linux

使用的组件

本文档中的信息基于以下软件版本：

- Informacast基本分页版本11.0.5 - 11.3

本文档中的信息都是基于特定实验室环境中的设备编写的。用于本文的所有设备始于初始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

配置

可以使用方法1或2更改Singlewire服务器的IP地址、掩码、DNS和网关。

警告：如果计划在基本InformaCast和高级InformaCast之间切换，并且更改了IP地址，则需要重新部署InformaCast OVA。

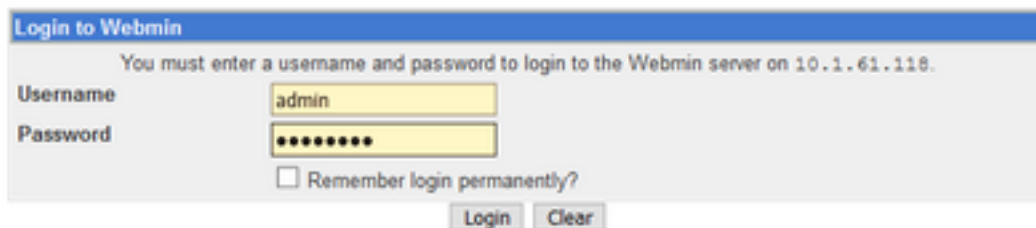
警告：如果您当前有许可的应用，更改IP地址可能会导致您需要新的许可证。

注意：只要安装了InformaCast或更改了其IP地址，InformaCast SIP证书就会重新生成，因此，如果将传输层安全(TLS)协议与SIP配合使用，则需要在InformaCast环境中的所有Cisco Unified Communications Manager(CUCM)上安装InformaCast SIP证书。

方法1. GUI

步骤1.要使用GUI配置网络设置，请打开Web浏览器，输入InformaCast虚拟设备的IP地址 (https://<informacast_IP>:10000)，然后按Enter键。系统将显示Singlewire开始页面。

步骤2.单击Access Application Management Tools with Control Center(使用Control Center访问应用管理工具)链接。单独的选项卡/窗口打开至“控制中心”菜单页，如图所示。



步骤3.输入您的凭证并单击“登录”按钮。默认情况下，您的用户名为admin，密码为changeMe。系统将显示Webmin主页，如图所示。



Virtual Appliance version	11.0.5
System hostname	singlewire
Webmin version	1.530
Time on system	Wed Jul 17 14:34:34 2019
Kernel and CPU	Linux 3.2.0-4-686-pae on i686
Processor information	Intel(R) Xeon(R) CPU E5-2699 v4 @ 2.20GHz, 1 cores
System uptime	2 days, 16 hours, 54 minutes
Running processes	58
CPU load averages	0.01 (1 min) 0.03 (5 mins) 0.05 (15 mins)
CPU usage	0% user, 0% kernel, 0% IO, 100% idle
Real memory	3.95 GB total, 1.12 GB used
Virtual memory	4.03 GB total, 0 bytes used
Local disk space	74.78 GB total, 5.18 GB used

步骤4.要更改IP地址，请按照以下步骤操作，导航至System > Bootup and Shutdown。

步骤5.从服务列表中选择singlewireInformaCast，如图所示。

<input type="checkbox"/>	simplify	No	Simplify functionality
<input type="checkbox"/>	single	No	executed by init(8) upon entering runlevel 1 (single)
<input checked="" type="checkbox"/>	singlewireInformaCast	Yes	InformaCast application from Singlewire
<input type="checkbox"/>	singlewirePTT	Yes	PushToTalk application from Singlewire
<input type="checkbox"/>	singlewireSwiftStart	Yes	SwiftStart application from Singlewire
<input type="checkbox"/>	singlewireToolbox	Yes	Toolbox application from Singlewire
<input type="checkbox"/>	ssh	Yes	OpenBSD Secure Shell server
<input type="checkbox"/>	stop-bootlogd	Yes	See the init.d/bootlogd script
<input type="checkbox"/>	stop-bootlogd-single	No	See the init.d/bootlogd script
<input type="checkbox"/>	sudo	Yes	Provide limited super user privileges to specific users.
<input type="checkbox"/>	udev	No	Start udevl, populate idev and load drivers.

步骤6.要停止Informacast服务，请单击立即停止，然后等待服务停止，其所有子进程如图所示。

Module Index Edit Action

Action Details

Name:

Action Script

```
#!/bin/sh
### BEGIN INIT INFO
# Provides: singlewireInformaCast
# Required-Start: $remote_fs $network $syslog $time
# Required-Stop: $remote_fs $network $syslog
# Default-Start: 2 3 4 5
# Default-Stop: 0 1 6
# Short-Description: InformaCast
# Description: InformaCast application from Singlewire
### END INIT INFO

# Author: Jeff Ramin <jeff.ramin@singlewire.com>
#


# Do NOT "set -e"
```

Start at boot time? Yes No


[Return to bootup and shutdown actions](#)

步骤7.返回主菜单并导航至Networking> Network Configuration(网络配置)。网络配置选项如图所示。


Module Config Network Configuration




Network Interfaces



Routing and Gateways



Hostname and DNS Client



Host Addresses

Click this button to activate the current boot-time interface and routing settings, as they normally would be after a reboot. Warning - this may make your system inaccessible via the network, and cut off access to Webmin.

步骤8.选择Network Interfaces并单击eth0。

Module Index Network Interfaces

Active Now Activated at Boot

Interfaces listed in this table are currently active on the system. In most cases, you should edit them under the Activated at Boot tab.

Select all | Invert selection | Add a new interface.

Name	Type	IP Address	Netmask	Status
<input type="checkbox"/> eth0	Ethernet	10.1.61.118	255.255.255.0	Up
<input type="checkbox"/>	Ethernet	fe80::250:56ff:fe96:d3e3	64	Up
<input type="checkbox"/> lo	Loopback	127.0.0.1	255.0.0.0	Up
<input type="checkbox"/>	Loopback	::1	128	Up

Select all | Invert selection | Add a new interface.

[Return to network configuration](#)

步骤9.使用新IP地址编辑eth0接口，然后单击“保存”。此时，预计它将失去与服务器的连接。要重新登录到服务器，请使用新的IP地址。

Edit Active Interface

Active Interface Parameters			
Name	eth0	IP Address	10.1.61.118
Netmask	255.255.255.0	Broadcast	10.1.61.255
MTU	1500	Status	<input checked="" type="radio"/> Up <input type="radio"/> Down
Hardware address	00:50:56:96:d3:e3	Virtual interfaces	0 (Add virtual interface)

Save Delete

[Return to network interfaces](#)

步骤10.要编辑启动接口，请导航至网络> 网络配置，单击在启动时激活选项卡，然后编辑IP地址、网络掩码和广播IP，如图所示。

Edit Bootup Interface

Boot Time Interface Parameters			
Name	eth0	Activate at boot?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Address source	<input type="radio"/> From DHCP <input type="radio"/> From BOOTP <input checked="" type="radio"/> Static configuration		
	IP Address	10.1.61.118	
	Netmask	255.255.255.0	
	Broadcast	<input type="radio"/> Automatic <input checked="" type="radio"/> 10.1.61.255	
Virtual interfaces	0 (Add virtual interface)		Hardware address <input checked="" type="radio"/> Default <input type="radio"/>

Save Save and Apply Delete and Apply Delete

[Return to network interfaces](#)

步骤11.要再次启动singlewireInformaCast，请导航到System > Bootup and Shutdown。

步骤12.从服务列表中，选择singlewireInformacast，然后单击“立即开始”。服务可能需要几分钟才能启动。

Edit Action

Action Details	
Name	singlewireInformaCast
Action Script	<pre>#!/bin/sh ### BEGIN INIT INFO # Provides: singlewireInformaCast # Required-Start: \$remote_fs \$network \$syslog \$time # Required-Stop: \$remote_fs \$network \$syslog # Default-Start: 2 3 4 5 # Default-Stop: 0 1 6 # Short-Description: InformaCast # Description: InformaCast application from Singlewire ### END INIT INFO # Author: Jeff Ramin <jeff.ramin@singlewire.com> # # Do NOT "set -e" </pre>
Start at boot time?	<input checked="" type="radio"/> Yes <input type="radio"/> No

Save **Start Now** Restart Now Show Status Stop Now Delete

[Return to bootup and shutdown actions](#)

步骤13.要更改DNS和主机名，请导航至System > Bootup and Shutdown(系统>启动和关闭)。

步骤14.从服务列表中选择singlewireInformaCast，如图所示。

<input type="checkbox"/>	simplify	No	Simplify functionality
<input type="checkbox"/>	single	No	executed by init(8) upon entering runlevel 1 (single)
<input checked="" type="checkbox"/>	singlewireInformaCast	Yes	InformaCast application from Singlewire
<input type="checkbox"/>	singlewirePTT	Yes	PushToTalk application from Singlewire
<input type="checkbox"/>	singlewireSwiftStart	Yes	SwiftStart application from Singlewire
<input type="checkbox"/>	singlewireToolbox	Yes	Toolbox application from Singlewire
<input type="checkbox"/>	ssh	Yes	OpenBSD Secure Shell server
<input type="checkbox"/>	stop-bootlogd	Yes	See the init.d/bootlogd script
<input type="checkbox"/>	stop-bootlogd-single	No	See the init.d/bootlogd script
<input type="checkbox"/>	sudo	Yes	Provide limited super user privileges to specific users.
<input type="checkbox"/>	udev	No	Start udevl, populate idev and load drivers.

步骤15.单击“立即停止”，然后等待服务停止，其所有子进程都如图所示。

Module Index Edit Action

Action Details

Name:

Action Script:

```
#!/bin/sh
### BEGIN INIT INFO
# Provides: singlewireInformaCast
# Required-Start: $remote_fs $network $syslog $time
# Required-Stop: $remote_fs $network $syslog
# Default-Start: 2 3 4 5
# Default-Stop: 0 1 6
# Short-Description: InformaCast
# Description: InformaCast application from Singlewire
### END INIT INFO

# Author: Jeff Ramin <jeff.ramin@singlewire.com>
#

# Do NOT "set -e"
```

Start at boot time? Yes No

[Return to bootup and shutdown actions](#)

步骤16.要返回主菜单，请导航至“网络”>“网络配置”。

步骤17.选择Hostname和DNS Client。

Module Index Hostname and DNS Client

DNS Client Options

Hostname:

Update hostname in host addresses if changed?

Resolution order:

DNS servers:

Search domains:

None Listed...

[Return to network configuration](#)

步骤18.编辑DNS条目，然后单击“保存”。

步骤19.返回到System > Bootup and Shutdown下的服务列表。

步骤20.选择singlewireInformaCast，然后单击Start Now。服务可能需要几分钟才能启动。

The screenshot shows the 'Edit Action' configuration page for the service 'singlewireInformaCast'. The 'Name' field is filled with 'singlewireInformaCast'. The 'Action Script' field contains the following content:

```
#!/bin/sh
### BEGIN INIT INFO
# Provides:          singlewireInformaCast
# Required-Start:    $remote_fs $network $syslog $time
# Required-Stop:     $remote_fs $network $syslog
# Default-Start:     2 3 4 5
# Default-Stop:      0 1 6
# Short-Description: InformaCast
# Description:       InformaCast application from Singlewire
### END INIT INFO

# Author: Jeff Ramin <jeff.ramin@singlewire.com>
#
# Do NOT "set -e"
```

Below the script, there is a 'Start at boot time?' section with radio buttons for 'Yes' (selected) and 'No'. At the bottom, there are buttons for 'Save', 'Start Now' (circled in red), 'Restart Now', 'Show Status', 'Stop Now', and 'Delete'. A link 'Return to bootup and shutdown actions' is also present.

步骤21.为服务提供几分钟时间，使其重新上线。

步骤22.要更改网关，请导航至网络配置>路由和网关并编辑如图所示的设置。单击“Save(保存)”。

The screenshot shows the 'Routing and Gateways' configuration page. It has two tabs: 'Boot time configuration' and 'Active configuration'. Below the tabs, there is a note: 'This section allows you to configure the routes that are activated when the system boots up, or when network settings are fully re-applied.' The main configuration area is titled 'Routing configuration activated at boot time'. It includes a 'Default router' section with radio buttons for 'None (or from DHCP)' and 'Gateway' (selected). The 'Gateway' field is set to '10.1.61.1' and the interface is 'eth0'. Below this are sections for 'Static routes' and 'Local routes', each with a table with columns for 'Interface', 'Network', and 'Netmask'. A 'Save' button is at the bottom. A link 'Return to network configuration' is also present.

方法2.控制台

要通过控制台更改InformaCast服务器的IP地址、掩码、DNS和网关，请遵循以下步骤：

步骤1.打开并登录vSphere客户端。

步骤2.从资产中选择虚拟机（默认情况下，这是Singlewire InformaCast VM）。

步骤3.单击“打开控制台”。系统将显示Singlewire InformaCast VM控制台窗口，如图所示。


```
admin@singlewire:~$ cat /etc/network/interfaces
auto lo eth0
iface lo inet loopback

iface eth0 inet static
    address 10.1.61.119
    gateway 10.1.61.1
    netmask 255.255.255.0

admin@singlewire:~$
```

步骤8.要更改Informacast服务器的当前IP，请输入change-ip-address命令，然后按Enter键，如图所示。

```
admin@singlewire:~$ change-ip-address
Starting change IP address script
WARNING: If you have applications currently licensed,
changing your IP address may cause you to require new license(s).

Are you sure you want to continue (y/n)? y
```

步骤9.然后，输入Y并按Enter键。

步骤10.在您的网络中输入当前未使用的可路由IP地址，然后按Enter键。

步骤11.为该IP地址输入有效的子网掩码，然后按Enter键。

步骤12.输入指定IP地址的默认网关，然后按Enter键。

步骤13.输入网络上DNS服务器的IP地址，然后按Enter键获取输出，如图所示。

```
admin@singlewire:~$ change-ip-address
Starting change IP address script
WARNING: If you have applications currently licensed,
changing your IP address may cause you to require new license(s).

Are you sure you want to continue (y/n)? y

This utility will change the network parameters of your server, as well as recon
figure applications to use the new IP address

Enter new IP address: 10.1.61.118
Enter netmask: 255.255.255.0
Enter default gateway: 10.1.61.10
Enter DNS server 1 (enter if none):
Enter DNS server 2 (enter if none):

Network configuration:
IP address: 10.1.61.118
Netmask: 255.255.255.0
Gateway: 10.1.61.10
DNS server 1:
DNS server 2:

Continue using these values (y/n)? _
```

步骤14.输入Y并按Enter键。用于更改网络参数并重新生成安全套接字层(SSL)证书的脚本自动启动，如图所示。


```
running /usr/local/singlewire/InformaCast/bin/change-ip-address modify
Generating SSL certificates

running /usr/local/singlewire/PushToTalk/bin/change-ip-address modify
Generating SSL certificates
```

步骤15.消息“Change IP address process completed successfully(更改IP地址进程成功完成)”表示已应用更改。向新IP地址发送ping命令以确认可达性。

步骤16.为确认更改已正确执行，请运行命令`cat /etc/network/interfaces`，如图所示。

```
running /usr/local/singlewire/InformaCast/bin/change-ip-address finish
/home/admin
/home/admin
starting InformaCast
InformaCast has been started.

running /usr/local/singlewire/PushToTalk/bin/change-ip-address finish
starting PushToTalk
Change IP address process completed successfully
admin@singlewire:~$ cat /etc/network/interfaces
auto lo eth0
iface lo inet loopback

iface eth0 inet static
address 10.1.61.118
gateway 10.1.61.10
netmask 255.255.255.0

admin@singlewire:~$
```

如果使用以前使用的IP配置新IP地址，更改将失败，并显示错误“未对系统进行任何更改。请尝试再次运行此命令，或联系Singlewire支持寻求帮助，如图所示。

```
Checking /usr/local/singlewire/InformaCast/web/WEB-INF/wsdl/RecipientGroupService-1.wsdl
ERROR: 10.1.61.118 substitution failed, will roll back
Checking /usr/local/singlewire/InformaCast/web/WEB-INF/wsdl/ReplayService-1.0.wsdl
ERROR: 10.1.61.118 substitution failed, will roll back
Checking /usr/local/singlewire/InformaCast/web/WEB-INF/db/bcast.script
ERROR: 10.1.61.118 substitution failed, will roll back
Checking /usr/local/singlewire/InformaCast/web/WEB-INF/db/tmpBasic/bcast.script
ERROR: 10.1.61.118 substitution failed, will roll back
Checking /usr/local/singlewire/InformaCast/web/WEB-INF/db/tmpAdvanced/bcast.script
ERROR: 10.1.61.118 substitution failed, will roll back
/usr/local/singlewire/InformaCast/bin/change-ip-address prepare 10.1.61.118 failed; contact Singlewire support

running /usr/local/singlewire/PushToTalk/bin/change-ip-address prepare
Modifying /usr/local/singlewire/PushToTalk/web/WEB-INF/data/database.script
Checking /usr/local/singlewire/PushToTalk/web/WEB-INF/data/database.script
ERROR: 10.1.61.118 substitution failed, will roll back
/usr/local/singlewire/PushToTalk/bin/change-ip-address prepare 10.1.61.118 failed; contact Singlewire support
The change IP address process failed. No changes were made to your system.
Try running this command again or contact Singlewire support for assistance.
admin@singlewire:~$
```

在这种情况下，将服务器IP更改为新IP（从未使用），并使用所需的IP和网关重复此过程一次。

警告：如果通过SSH而不是控制台更改InformaCast IP地址，则下一条消息显示“如果通过ssh运行此命令，则更改IP地址将导致连接被丢弃Singlewire建议从控制台运行此命令”。

验证

当前没有可用于此配置的验证过程。

故障排除

要确认服务器是使用静态IP还是动态IP，请运行命令`cat /etc/network/interfaces`，如图所示。

```
admin@singlewire:~$ cat /etc/network/interfaces
auto lo eth0
iface lo inet loopback

iface eth0 inet static
    address 10.1.61.118
    gateway 10.1.61.1
    netmask 255.255.255.0

admin@singlewire:~$ █
```

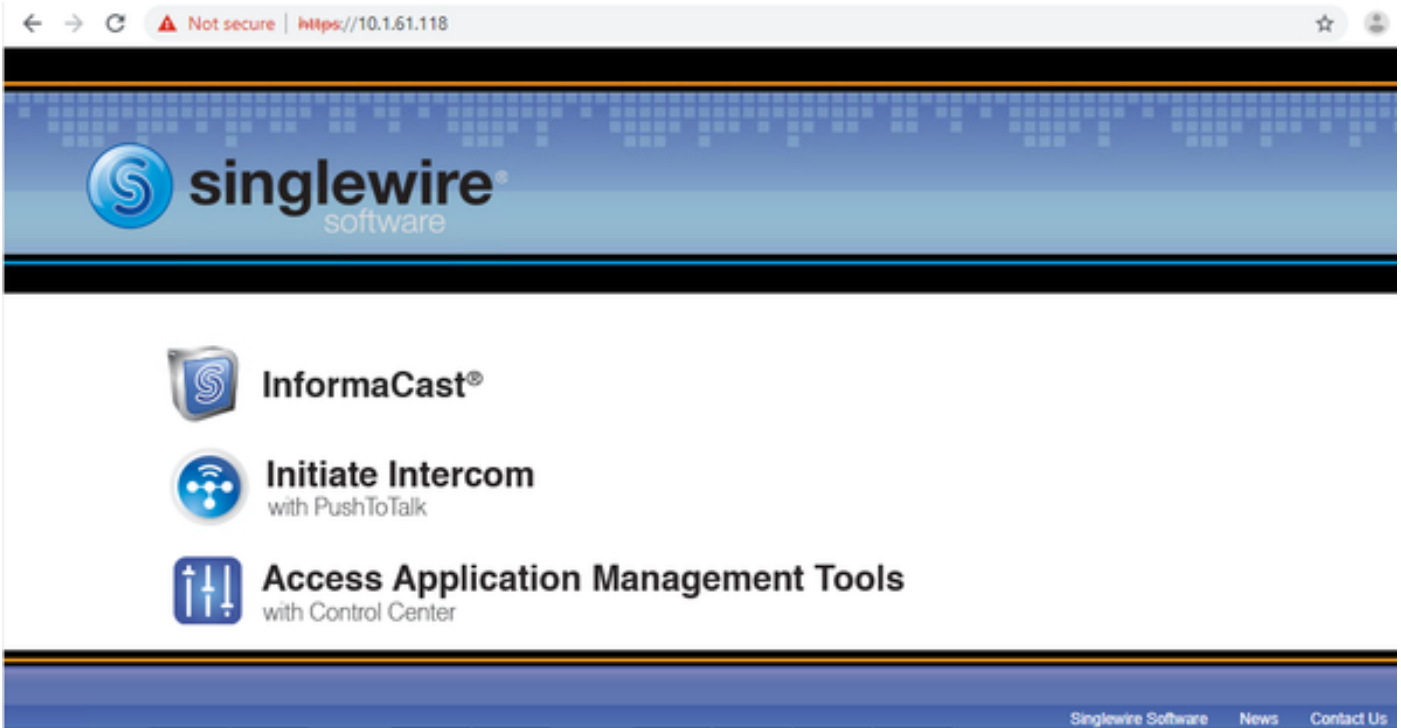
您可以使用的其他有用命令是`/sbin/ifconfig eth0`，如图所示。

```
admin@singlewire:~$ /sbin/ifconfig eth0
eth0      Link encap:Ethernet  HWaddr 00:50:56:96:d3:e3
          inet addr:10.1.61.118  Bcast:10.1.61.255  Mask:255.255.255.0
          inet6 addr: fe80::250:56ff:fe96:d3e3/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:24224 errors:0 dropped:0 overruns:0 frame:0
          TX packets:12825 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:1816926 (1.7 MiB)  TX bytes:14745702 (14.0 MiB)
          Interrupt:19 Base address:0x2000

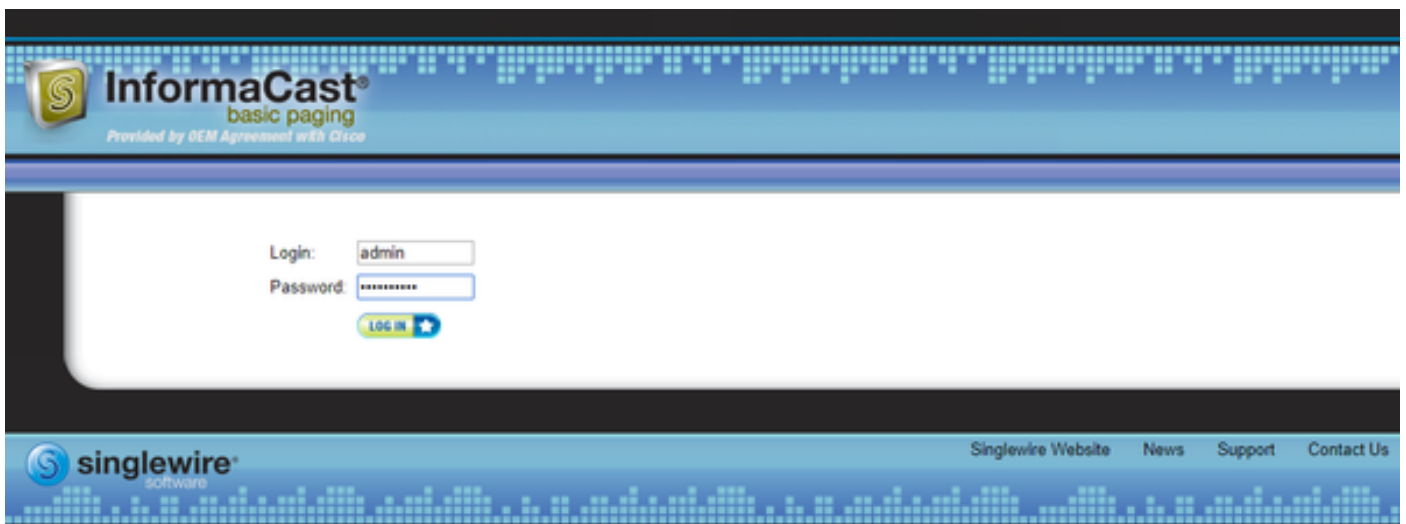
admin@singlewire:~$ █
```

要排除组播、网络设置和其他问题，请从Informacast服务器收集日志，如下所示。

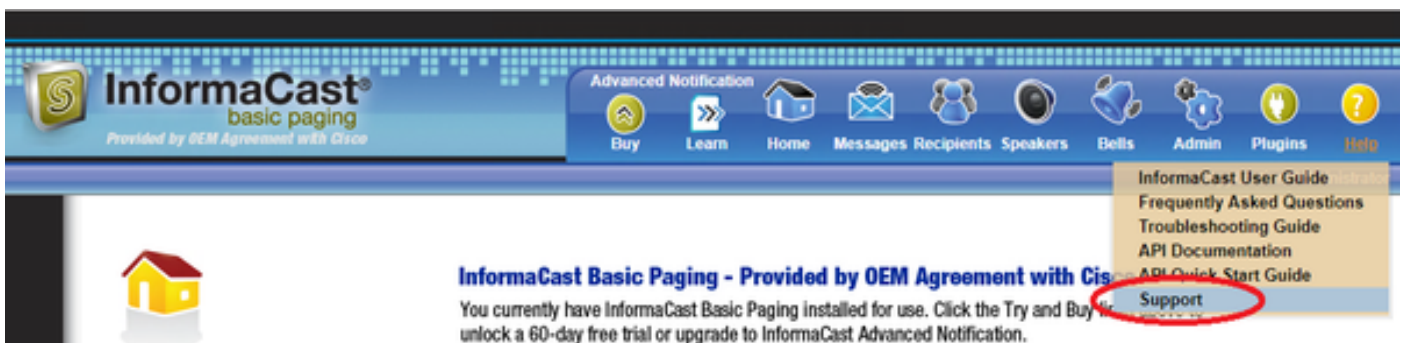
步骤1.在Web浏览器`https://<informacast_IP>`中打开[informacast IP](#)，然后选择Informacast。



步骤2.使用您的凭证登录，如图所示。



步骤3.导航至“帮助”>“支持”。



步骤4. Documentation and Tools(文档和工具)菜单显示。每个Informacast版本都可能不同，如图所示。

Documentation

[InformaCast User Guide](#)

[Frequently Asked Questions](#)

[Troubleshooting Guide](#)

[API Documentation](#)

[API Quick Start Guide](#)

[End User License Agreement](#)

Tools

These links help carry out steps mentioned in the documentation, or suggested by technical support.

[API Log](#) Shows requests made to the InformaCast REST API.

[Calling Terminal Diagnostics](#) Shows the CTI ports and route points registered with InformaCast.

[InformaCast Logs Directory](#) Shows the directory containing the InformaCast logs.

[Log Tool](#) Collects and analyzes Singlewire log files for errors.

[Performance Log](#) Contains information logged by InformaCast.

[SIP Stack Log](#) Contains information logged by the SIP stack.

[Summary Log](#) Contains a summary of broadcasts sent by InformaCast.

要排除组播问题，请单击Informacast Logs Directory，并收集性能日志和摘要日志。

步骤5.要排除网络设置故障，您需要获取消息日志。使用管理员凭证通过SSH连接到服务器并运行下一命令。

```
tar -zcf messages.tgz /var/log/*  
/usr/local/singlewire/SwiftStart/server/jetty/webapps/SwiftStart/WEB-INF/data/*  
/etc/network/interfaces
```

步骤6.命令行显示许多拒绝权限的消息，但跟踪会收集并保存在压缩的.tgz文件中，如图所示。

```
admin@singlewire:~$ tar -zcf messages.tgz /var/log/* /usr/local/singlewire/SwiftStart/server/jetty  
EB-INF/data/* /etc/network/interfaces  
tar: Removing leading '/' from member names  
tar: /var/log/apt/term.log: Cannot open: Permission denied  
tar: /var/log/boot: Cannot open: Permission denied  
tar: /var/log/fsck/checkroot: Cannot open: Permission denied  
tar: /var/log/iptraf: Cannot open: Permission denied  
tar: /var/log/lighttpd: Cannot open: Permission denied  
tar: /var/log/watchdog: Cannot open: Permission denied  
tar: Exiting with failure status due to previous errors  
admin@singlewire:~$
```

步骤7.要确认已生成消息.tgz，请使用命令ls -la，如图所示。


```

admin@singlewire:~$ ls -la
total 46528
drwxr-xr-x 8 admin admin    4096 Jul 14 13:06 .
drwxr-xr-x 5 root  root    4096 Apr 27  2011 ..
-rw----- 1 root  root    2739 Jan 14  2011 .bash_history
-rw-r--r-- 1 admin admin    220 Jan 11  2011 .bash_logout
-rw-r--r-- 1 admin admin   3116 Jan 11  2011 .bashrc
drwx----- 4 admin admin    4096 Jul 23  2018 .cache
drwx----- 3 admin admin    4096 Feb 20  2012 .config
drwxr-xr-x 2 admin admin    4096 Jul 23  2018 .fontconfig
-rw-r--r-- 1 root  root   1380 Mar 13  08:49 Informacast1.cap
-rw-r--r-- 1 root  root   1744 Jul 31  2018 InformaCast_LogTool_Capture_201807311120.pcap
-rw-r--r-- 1 root  root   4138 Sep 23  2018 InformaCast_LogTool_Capture_201809231353.pcap
-rw-r--r-- 1 root  root   9587 Mar 13  08:59 InformaCast_LogTool_Capture_201903130800.pcap
-rw-r--r-- 1 admin admin 1453069 Jul 31  2018 InformaCast_LogTool_Logs_201807311120.tgz
-rw-r--r-- 1 admin admin 2350097 Sep 23  2018 InformaCast_LogTool_Logs_201809231550.tgz
-rw-r--r-- 1 admin admin 2354348 Sep 23  2018 InformaCast_LogTool_Logs_201809231605.tgz
-rw-r--r-- 1 admin admin 33240845 Mar 13  09:06 InformaCast_LogTool_Logs_201903130801.tgz
-rw-r--r-- 1 admin admin 1544692 Jul 31  2018 InformaCast_LogTool_OScmds_201807311120.log
-rw-r--r-- 1 admin admin 1560839 Sep 23  2018 InformaCast_LogTool_OScmds_201809231549.log
-rw-r--r-- 1 admin admin 1564683 Sep 23  2018 InformaCast_LogTool_OScmds_201809231604.log
-rw-r--r-- 1 admin admin 2079795 Mar 13  09:01 InformaCast_LogTool_OScmds_201903130800.log
drwxr-xr-x 3 admin admin    4096 Jul 23  2018 .local
-rw-r--r-- 1 admin admin 1303117 Jul 14 13:06 messages.tgz
drwx----- 3 admin admin    4096 May 15  2013 .pki
-rw-r--r-- 1 admin admin    865 Feb  9  2012 .profile
-rw-r--r-- 1 root  root    2020 Jul 26  2018 pruebal
-rw----- 1 root  root    1024 Jan 11  2011 .rnd

```

步骤8.要将messages.tgz文件导出到外部SFTP服务器，请使用命令sftp <user>@<sftp_ip_address>。输入SFTP凭证，连接后键入put messages.tgz以导出文件，如图所示。

```

admin@singlewire:~$ sftp victogut@10.1.99.201
Authenticated with partial success.
victogut@10.1.99.201's password:
Hello, I'm freeFTPd 1.0Connected to 10.1.99.201.
sftp>
sftp> put messages.tgz
Uploading messages.tgz to /messages.tgz
messages.tgz                               100% 1273KB   1.2MB/s   00:01
sftp>

```

步骤9.如果您有TAC案例，请使用链接<https://cway.cisco.com/csc/>将消息.tgz附加到您的服务请求中。



Case File Uploader

Attaching files to a Cisco Support Case is easy

1 Enter your Cisco TAC Case Number

Case Number <CaseNumberHere>

2 Add files

3 Add file descriptions

4 File Visibility

Upload

步骤10. **daemon.log**文件可帮助您找出问题的根本原因。

相关信息

InformaCast虚拟设备基本分页

: https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/cucm/cisco_paging_server/11_0_5/CiscoPagingServerInstallandUserGuide_1105.pdf