



**Juniper Networks Secure Access
Juniper Networks Secure Access FIPS**

快速入门指南

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简介

感谢您选择 Juniper Networks Instant Virtual Extranet (IVE) 设备。可以采用以下简单的步骤来安装 IVE 和启动系统配置操作：

- 第 2 页上的 "步骤 1: 安装硬件"
- 第 8 页上的 "步骤 2: 执行基本设置"
- 第 12 页上的 "步骤 3: 授权和配置 IVE"



注意：安装和设置 IVE 后，请参阅管理员 Web 控制台中的 "Initial Configuration" 任务向导来安装最新的 IVE OS 服务包、授权 IVE 设备以及创建一个测试用户以验证用户的可访问性。要测试初始设置并继续配置 IVE，请参阅 IVE *Juniper Networks Secure Access Administration Guide* 中的 "Getting started" 一节。

建议您在 LAN 中安装 IVE 设备以确保它能与相应的资源进行通信，这些资源包括认证服务器、DNS 服务器、通过 HTTP/HTTPS 连接的内部 Web 服务器、通过 HTTP/HTTPS 连接的外部 Web 站点（可选）、Windows 文件服务器（可选）、NFS 文件服务器（可选）以及客户端 / 服务器应用程序（可选）。



注意：如果决定在 DMZ 中安装 IVE 设备，请确保 IVE 设备可以连接到这些内部资源。

步骤 1: 安装硬件

IVE 设备在硬件设计方面特色各异。IVE 硬件的安装过程取决于所购买的 IVE 具体型号。以下部分将介绍从 Juniper Networks 处可获得的各种 IVE 系统的硬件安装过程：

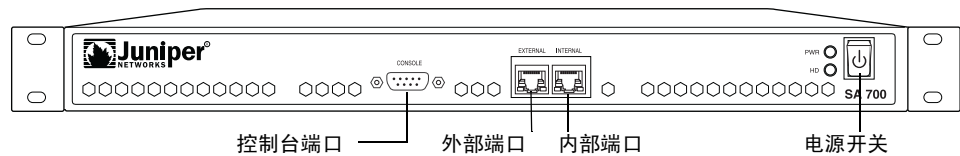
- 第 2 页上的 "Secure Access 700"
- 第 3 页上的 "Secure Access 2000 和 Secure Access 4000"
- 第 4 页上的 "Secure Access 6000"
- 第 5 页上的 "Secure Access 4000 FIPS 和 Secure Access 6000 FIPS"



注意：有关 Secure Access 和 Secure Access FIPS 的安全信息，请参阅 Juniper Networks 支持站点上的 *Juniper Networks Security Products Safety Guide*。

Secure Access 700

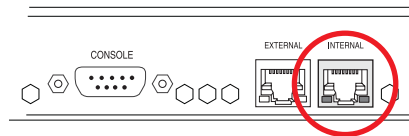
图 1: Secure Access 700



Secure Access 700 出厂时即带有安装吊环和橡胶支座。使用安装吊环将设备安装在机架内，或通过加装橡胶垫使设备能置于平坦表面上。接下来，按照以下步骤连接随附的电缆并接通 IVE 电源：

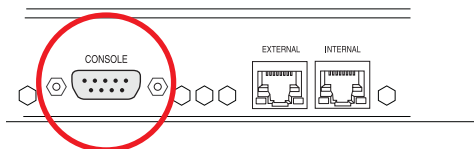
1. 在后面板上，将电源线插入 AC 插座。
2. 在前面板上：
 - a. 将以太网电缆插头插入 "INTERNAL" 端口。接通 IVE 电源后，内部端口将使用两个 LED 来指示连接状态，如第 7 页上的表 "1" 中所述。

图 2: 内部端口位于前面板上



- b. 将串行电缆插入控制台端口。

图 3: 控制台端口位于前面板上



- c. 按下面板右角的电源开关。电源开关旁的绿色 LED 变亮。

安装了设备机架或者将设备放置在适合的平坦表面上、连接了电源、网络、串行电缆并接通电源后，硬件安装过程即结束。接下来将按照第 8 页上的 "步骤 2: 执行基本设置" 所述来连接设备的串行控制台。

Secure Access 2000 和 Secure Access 4000

图 4: Secure Access 2000

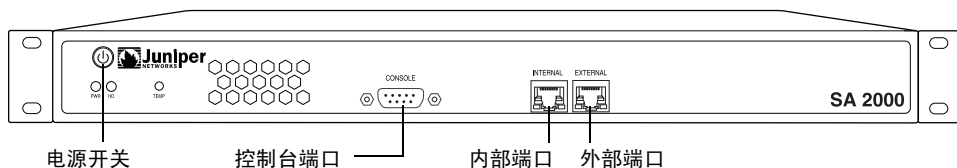
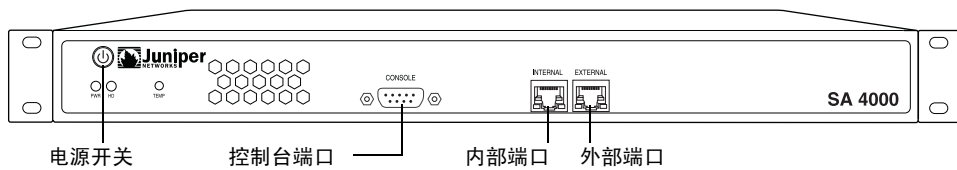


图 5: Secure Access 4000



Secure Access 2000 和 Secure Access 4000 设备在出厂时即带有安装支架，它们连接在机柜的前端。按照以下步骤安装机架、连接随附的电缆并接通 IVE 电源：

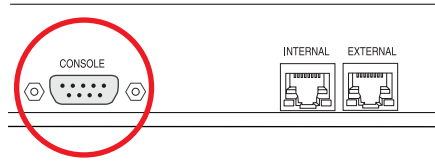
1. 使用随附的安装支架将 IVE 设备安装到服务器机架上。
2. 在后面板上，将电源线插入 AC 插座。
3. 在前面板上：
 - a. 将以太网电缆插头插入 "INTERNAL" 端口。接通 IVE 电源后，内部端口将使用两个 LED 来指示 LAN 连接状态，如第 7 页上的表 "1" 中所述。

图 6: 内部端口位于前面板上



- b. 将串行电缆插入控制台端口。

图 7: 控制台端口位于前面板上

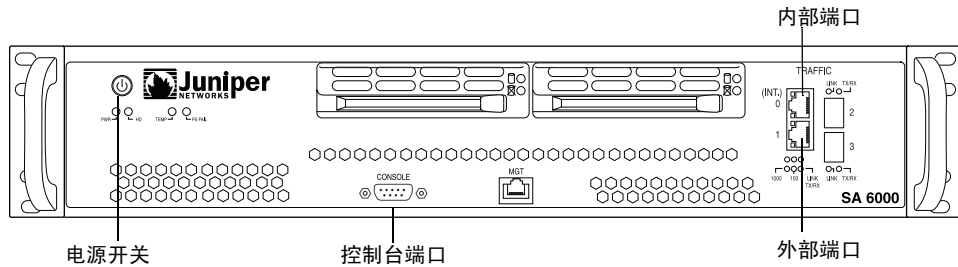


- c. 按下面板左下角的电源开关。电源开关下方的绿色 LED 变亮。无论设备是从 IVE 硬盘读取数据还是向其中写入数据，IVE 硬盘指示灯都会亮。

安装了设备机架、连接了电源、网络、串行电缆并接通电源后，硬件安装过程即结束。接下来将按照第 8 页上的 "步骤 2: 执行基本设置" 所述来连接设备的串行控制台。

Secure Access 6000

图 8: Secure Access 6000



Secure Access 6000 在出厂时即带有安装支架，它们连接在机柜的前端。按照以下步骤安装机架、连接随附的电缆并接通 IVE 电源：

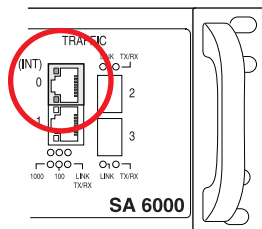
1. 使用随附的安装支架将 IVE 设备安装到服务器机架上。
2. 在后面板上，将电源线插入 AC 插座。如果 Secure Access 6000 包含两个电源，请将电源线分别插入两个 AC 插座。



注意：尽管 Secure Access 6000 在只有一个电源供电时也能正常运行，但必须接通两个电源才能充分利用 Secure Access 6000 的电源冗余功能。

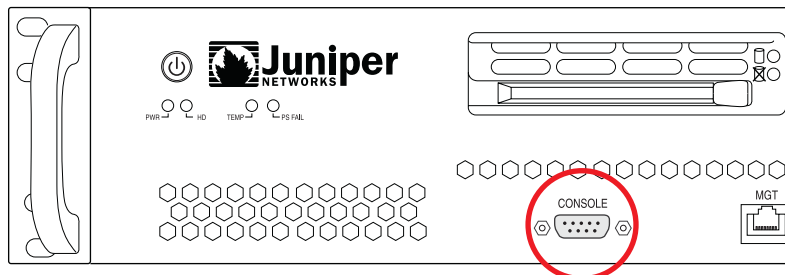
3. 在前面板上：
 - a. 将以太网电缆插头插入 "INT"（供内部使用）端口。接通 IVE 电源后，内部端口将使用两个 LED 来指示 LAN 连接状态，如第 7 页上的表 "1" 中所述。

图 9: 内部端口位于前面板上



b. 将串行电缆插入控制台端口。

图 10: 控制台端口位于前面板上



c. 按下面板左角的电源开关。电源开关下方的绿色 LED 变亮。无论设备是从 IVE 硬盘读取数据还是向其中写入数据，IVE 硬盘指示灯都会亮。

注意：有关 SA 6000 硬件组件的详细信息，请参阅 *Juniper Networks Secure Access Administration Guide* 中的 "Secure Access 6000" 一章。

安装了设备机架、连接了电源、网络、串行电缆并接通电源后，硬件安装过程即结束。接下来将按照第 8 页上的 "步骤 2: 执行基本设置" 所述来连接设备的串行控制台。

Secure Access 4000 FIPS 和 Secure Access 6000 FIPS

图 11: Secure Access 4000 FIPS

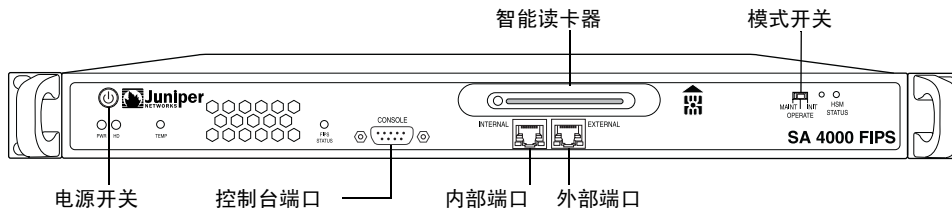
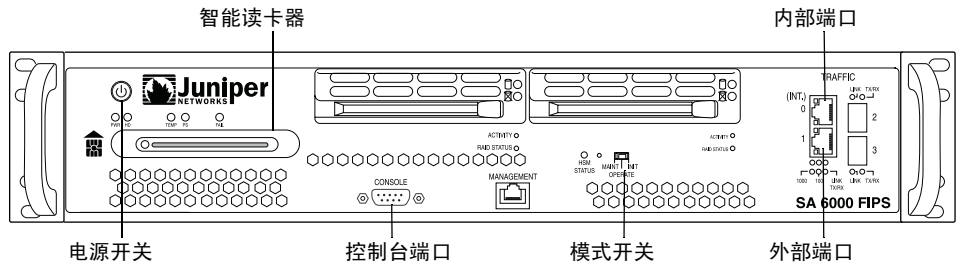


图 12: Secure Access 6000 FIPS

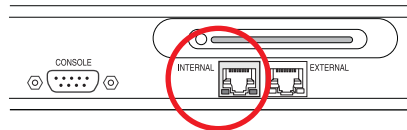


Secure Access 4000 FIPS 和 Secure Access 6000 FIPS 设备在出厂时即带有安装支架，它们连接在机柜的前端。按照以下章节所述的步骤安装机架、连接随附的电缆并接通 IVE 电源。

Secure Access 4000 FIPS

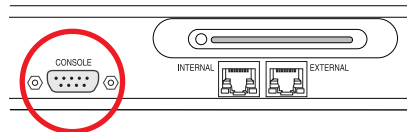
1. 使用随附的安装支架将 Secure Access 4000 FIPS 设备安装到服务器机架上。
2. 在后面板上，将电源线插入 AC 插座。
3. 在前面板上：
 - a. 将以太网电缆插头插入 "INTERNAL" 端口。接通 IVE 电源后，内部端口将使用两个 LED 来指示 LAN 连接状态，如第 7 页上的表 "1" 中所述。

图 13: 内部端口位于前面板上



- b. 将串行电缆插入控制台端口。

图 14: 控制台端口位于前面板上



- c. 按下面板右角的电源开关。电源开关下方的绿色 LED 变亮。无论设备是从硬盘读取数据还是向其中写入数据，硬盘指示灯都会亮。

安装了设备机架、连接了电源、网络、串行电缆并接通电源后，硬件安装过程即结束。接下来将按照第 8 页上的 "步骤 2: 执行基本设置" 所述来连接设备的串行控制台。

Secure Access 6000 FIPS

1. 使用随附的安装支架将 Secure Access 6000 FIPS 设备安装到服务器机架上。

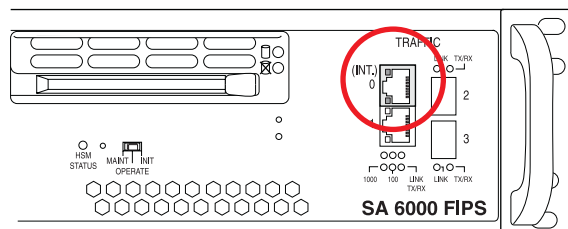
- 在后面板上，将电源线连接到每个 AC 电源。



注意：尽管 Secure Access 6000 FIPS 设备在只有一个电源供电时也能正常运行，但必须接通两个电源才能充分利用 Secure Access 6000 FIPS 设备的电源冗余功能。

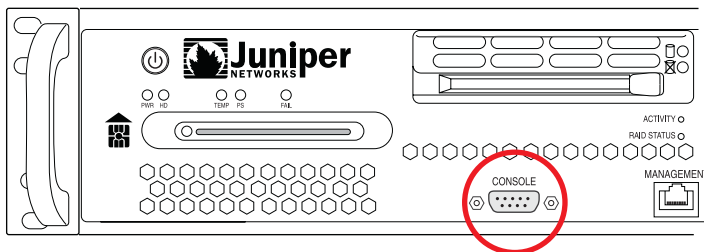
- 在前面板上：
 - 将以太网电缆插头插入 "INT"（供内部使用）端口。接通 IVE 电源后，内部端口将使用两个 LED 来指示 LAN 连接状态，如第 7 页上的表 "1" 中所述。

图 15: 内部端口位于前面板上



- 将串行电缆插入控制台端口。

图 16: 控制台端口位于前面板上



- 按下面板左角的电源开关。电源开关下方的绿色 LED 变亮。设备从任何一个 IVE 硬盘读取数据或是向其中写入数据，硬盘指示灯都会亮。

安装了设备机架、连接了电源和网络电缆并接通电源后，硬件安装过程即结束。接下来将按照第 8 页上的 "步骤 2: 执行基本设置" 所述来连接设备的串行控制台。

LED 和模块状态指示灯的工作情况

表 1: 内部端口 LED

LAN 状态	LED 1	LED 2
10 Mbps 连接	关闭	不适用
100 Mbps 连接	绿色	不适用
1000 Mbps 连接	橙色	不适用
正在传输数据	橙色、绿色或关闭	闪烁

表 1: 内部端口 LED (续)

LAN 状态	LED 1	LED 2
无连接	关闭	关闭

表 2: Secure Access FIPS – 硬件安全模块状态指示灯

LAN 状态	LED 1	说明
预初始化状态	单次, 短闪	模块准备就绪, 可以开始初始化。
操作状态	大部分时间点亮, 有时规律性闪烁	模式开关设置为 "O" (操作)。设置为 "I" 开始初始化。
预维护状态	单次, 长闪	模式开关设置为 "M" (维护)。设置为 "I" 开始初始化。

步骤 2: 执行基本设置

启动未经配置的 Secure Access 或 Secure Access FIPS 设备时, 需要通过串行控制台来输入基本的网络和机器信息, 以便可以通过网络对设备进行访问。输入了这些设置后, 可以通过管理员 Web 控制台继续对设备进行配置。本节将介绍首次连接到 Secure Access 或 Secure Access FIPS 设备时所需的串行控制台设置以及需要执行的任务。

要执行基本设置:

- 对控制台终端或电脑中运行的终端仿真程序 (如 "超级终端") 进行配置, 在其中使用下列串行连接参数:
 - 9600 位 / 秒
 - 8 位, 无奇偶校验 (8N1)
 - 1 停止位
 - 无流量控制
- 将终端或便携式电脑连接到已接入设备控制台端口的串行电缆, 然后按 **Enter** 键直到出现初始化脚本提示。

图 17: IVE 串行控制台的欢迎屏幕

```

Telnet

E1000 driver loaded
.....
No data to import
Creating initial default data

About to boot as a stand-alone IVE.
Hit TAB for clustering options, wait or hit Enter to continue....
Starting Core Services

Welcome to the initial configuration of your server!
NOTE: Press 'y' if this is a stand-alone server or the first
machine in a clustered configuration.
If this is going to be a member of an already running cluster
press n to reboot. When you see the 'Hit TAB for clustering options'
message press TAB and follow the directions.
Would you like to proceed (y/n)?:
CTRL-A Z for help | 9600 8N1 | NOR | Minicom 2.00.0 | UT102 | Offline

```

3. 输入 **y** 继续，然后输入 **y** 接受许可协议（或者输入 **r** 先阅读许可）。
4. 按照串行控制台的说明，输入所提示的机器信息，包括：
 - 内部端口的 IP 地址（在初始配置后，可通过管理员 Web 控制台对外部端口进行配置）
 - 网络掩码
 - 缺省网关地址
 - 主 DNS 服务器地址
 - 辅 DNS 服务器地址（可选）
 - 缺省 DNS 域名（例如 `acmegizmo.com`）
 - WINS 服务器名称或地址（可选）
 - 管理员用户名
 - 管理员密码
 - 通用机器名称（例如 `connect.acmegizmo.com`）

- 组织名称（例如 Acme Gizmo, Inc.）



注意：IVE 使用通用机器名称和组织名称来创建自签署数字证书，并将其用于产品评估和初始设置过程。

如果是设置 Secure Access 700、2000、4000 或 6000，我们强烈建议您先导入由可信任的证书授权机构 (CA) 签署的数字证书，然后再部署 IVE 投入使用。

如果是设置 Secure Access FIPS 4000 或 6000，必须先使用 IVE 管理员 Web 控制台生成新的证书签署请求，然后才能部署 IVE 投入使用。

有关详细信息，请参阅 *Juniper Networks Secure Access Administration Guide* 中的 "Certificates" 一章。

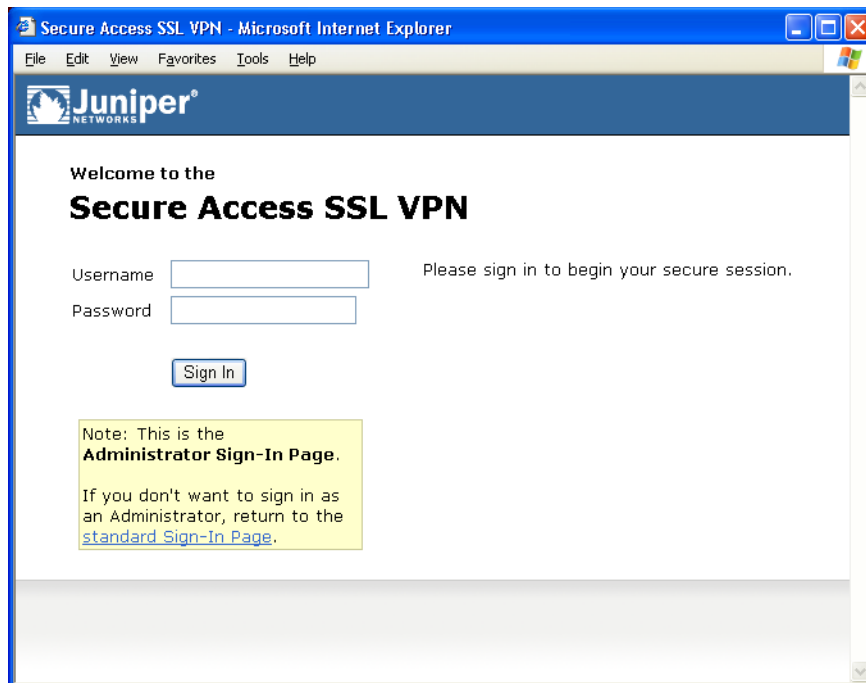
5. 如果安装 Secure Access FIPS 设备：

- 当串行控制台提示时，将模式开关设置为 **INIT**（初始化模式）。蓝色硬件安全模块 (HSM) LED 可指示硬件安全模块的模式，如第 8 页上的表 "2" 所述。
- 指定要初始化的智能卡的数量。
- 将其中一张智能卡接触面朝上插入读卡器，直到智能读卡器模块的灯由红色变为绿色。当模块处于 **INIT** 模式时，请不要取出智能卡。
- 卡插入后，智能读卡器模块上的 LED 会变绿。但是，这并不表示卡已正确插入。确保智能卡接触面朝上插入读卡器，这是正确的插卡方向。
- 输入智能卡管理员密码短语（初始化每个管理智能卡都需要输入一个）。
- 将模式开关切换回 **OPERATE**（操作模式）。

输入所有信息后，即完成了串行控制台的设置。当出现 IVE 提示您修改设置的选项时，请选定适当的选项或继续。

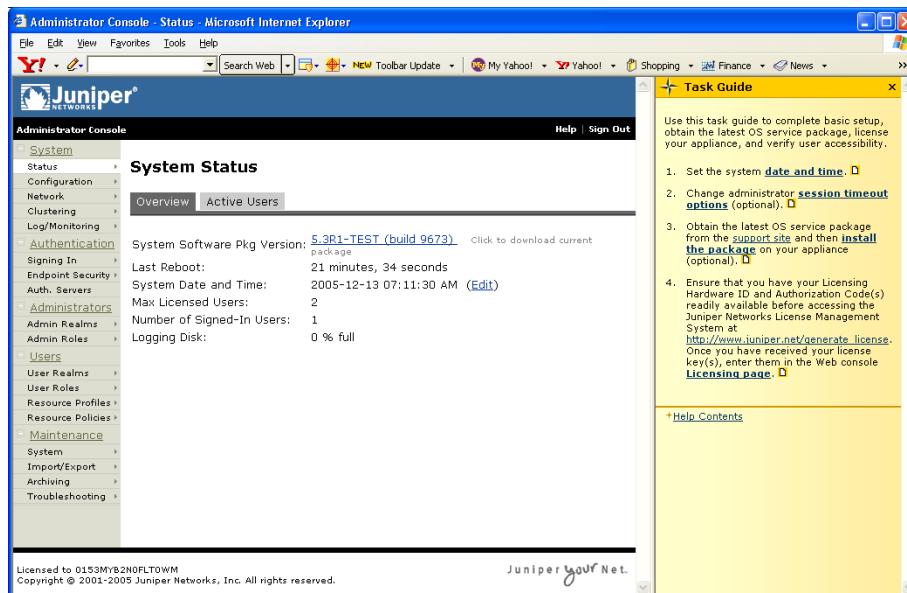
- 在浏览器中输入机器的 URL 并后跟 "/admin"，以访问管理员登录页面。URL 的格式为 :https://a.b.c.d/admin，其中 a.b.c.d 是在步骤 4 中输入的机器 IP 地址。当安全警报提示是否要在没有签署证书的条件下继续时，单击 **Yes**。如果出现管理员登录页面，则表明已成功将 IVE 设备连接到网络中。

图 18: 管理员登录页面



7. 在登录页面中，输入在步骤 4 中创建的管理员用户名及密码，然后单击 **Sign In**。管理员 Web 控制台将进入到 **System > Status > Overview** 页面中。

图 19: System > Status > Overview 页面



步骤 3: 授权和配置 IVE

安装了 IVE 并执行了基本设置后，即可安装最新的 IVE OS 服务包、授权 IVE、验证可访问性以及完成配置过程：

- 要安装最新的 IVE OS 服务包、授权 Secure Access 或 Secure Access FIPS 设备以及创建一个测试用户以验证用户可访问性，请参照管理员 Web 控制台内嵌的任务向导进行操作。
- 要测试初始设置并继续配置 IVE，请参阅 IVE *Juniper Networks Secure Access Administration Guide* 中的 "Getting Started" 一节。