Native Android IPsec VPN Client

https://campus.barracuda.com/doc/79462675/

If you are not using the integrated TINA VPN client in CudaLaunch for Android, you can also manually configure the native IPsec client on the mobile device. This setup must be completed on every device that connects to the client-to-site VPN and is valid only for IPsec IKEv1 VPN configurations. Changes to the VPN configuration must be replicated manually on every connected device.

Manually configuring and managing IPsec VPN connections on mobile devices is not recommended. Due to the large number of device types, operating system variants and the frequency of system updates manually configured IPsec VPN connections often do not work. Instead of manually configuring IPsec VPN connections on mobile devices, we strongly recommend using CudaLaunch to automatically manage the VPN connection and to keep the client configuration up-to-date.

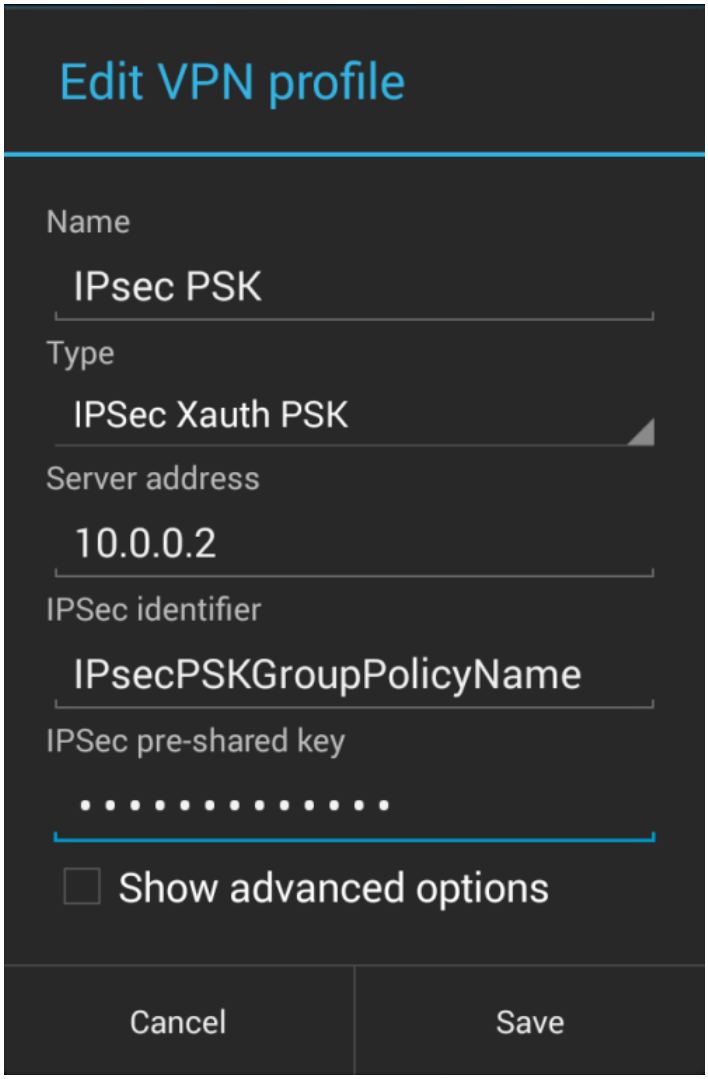
For more information, see CudaLaunch.

Before You Begin

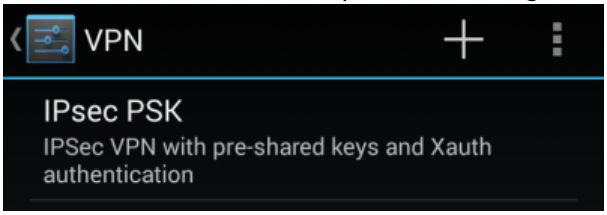
- Verify your device is running Android 4.0 or higher.
- Configure the client-to-site IPsec IKEv1 VPN with PSK or client certificate authentication. For more information, see Example - Client-to-Site IKEv1 IPsec VPN with PSK.

Configure the Native Android IPsec VPN Client for Client-to-Site IPsec VPNs with PSK

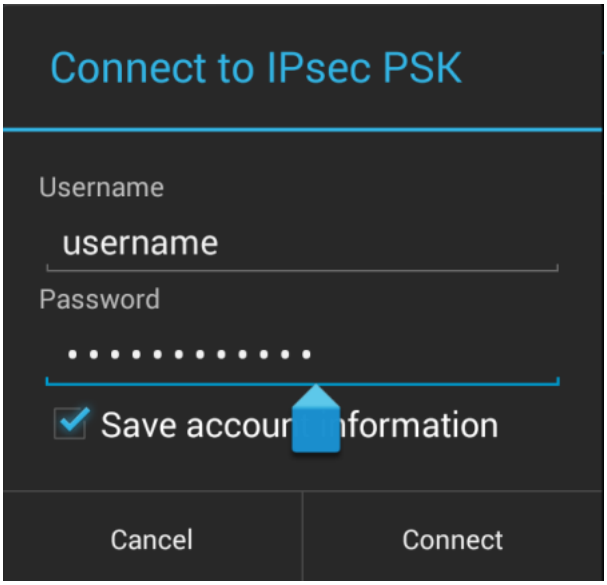
1. On the Android device, tap **Settings**.
2. In the **Wireless & Networks** section, tap **More**.
3. Tap **VPN**.
4. Add the VPN by tapping the plus sign (**+**) next to **VPN**.
5. On the **Edit VPN profile** page, configure these settings:
   - **Name** – Enter a name for the VPN connection (e.g., `IPsec PSK`).
   - **Type** – Select **IPSec Xauth PSK**.
   - **Server address** – Enter the network address for the VPN service (e.g., `10.0.0.2`).
   - **IPSec identifier** – Enter a random string. This string is used to as part of the IP Group identifier on the **VPN > Client-to-Site** page.
   - **IPSec pre-shared key** – Enter the PSK.



6. To connect to the VPN, tap its name (e.g., **IPsec PSK**).



7. Enter your **Username** and **Password,** and then tap **Connect**.



Configure the Native Android IPsec VPN Client for Client-to-Site IPsec VPNs with Client Certificate Authentication

Step 1. Set up Certificates on the Android Device

1. Copy the certificates to the Android device's internal storage.
2. Tap **Settings > Security > Install from Storage**.
3. Tap the root certificate.
4. Enter a **Certificate Name** and select **VPN and apps**.
5. Click **OK**.
6. If prompted, enter your PIN or unlock pattern. A message stating, 'Root CA installed' appears briefly at the bottom of the screen.
7. Enter a **Certificate Name** and select **VPN and apps**.
8. Click **OK** to install the certificate.

The certificate appears under the **User** tab at **Settings > Security > Trusted Credentials**.

Step 2. Set up the Android VPN Client

1. Tap **Settings**.
2. In the **Wireless & Networks** section, tap **More**.
3. Tap **VPN**.
4. Add the VPN by tapping the plus sign (**+**) next to **VPN**.
5. On the **Edit VPN profile** page, configure these settings:
   - **Name** – Enter a name for the VPN connection (e.g., `WorkVPNConnection`).
   - **Type** – Select **IPsec Xauth RSA**.
   - **Server address** – Enter the network address for the VPN service (e.g., `123.45.6.7`).
   - **IPsec user certificate** – Select the previously installed user certificate (e.g.,

`AndroidCert`).
- **IPsec CA certificate** – Select the previously install root certificate (e.g., `RootCert`).

To connect to the VPN, tap the VPN configuration entry you just created.

Figures

1. IPsecPSKAndroidClient.png
2. IPsecPSKAndroidTapToConnect.png
3. IPsecPSKAndroidUserPasswordPrompt.png