## Single Device Set up

1. Enable Remote.it in EdgeLink Studio and download project.



## Sign-in remote.it web portal https://app.remote.it/#/

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Ŵ	Ċ	https://app.remote.it/#/	2 A at to	£≡ @ ¥ <mark></mark>
		G SIGN IN WIT		
		or		
		Email *		
		SIGN IN		
		Remember me	Forgot your passv	word?
		Don't have an account yet?	Sign up for free!	

Username/Password Login

3. Add device

🔓 Re	mote.It Applicatio	n - add 🗙	+						
$\leftarrow \rightarrow$	C 🔒 htt	ps://app.remo	te.it/#/add						
V		+	ට Q CLAIM A DEVI	CE			TRY A DE	/ICE	
$\stackrel{\rightarrow}{\leftarrow}$	Connections	1	_2	3			-		
(-[]	Devices		CLAIM CODE GQ3ECCCV	~			ŕŝ		
-64	Networks		Personal				Demo devic	e	
[ <u>;;;</u> ]	Organization		Organizat	ion					
	Logs		ADD AN INST	NCE					
Ē	Scripting	7	<b></b>	aws	A	<u></u>	arm		
£	Registrations	7	Docker Jumpbox	AWS	Azure	Google Cloud	Arm Virtual Hardware		
	Products	R	ADD A DEVICE						
_ <mark>5</mark>	Inbox		ŏ	۵.	<u></u>		<b></b>	0	۲
			Raspberry Pi	Linux	Docker	Synology	OpenWrt	Firewalla	Tinker
<b>T</b> I2 2 3		·	f						

The code in 2 is copy from below

🖬 Tag 🗸 🗸	Dashboard / Config	remote.it
🛍 Data logger		
🗘 Config 🗠	remote.it	
ଞ୍ଚ Network 🗸	Device Name	ecu1051-c973f8
S Time & Date	Device ID	90:00:00:00:00:08:5B:D9
rs remote.it	Registration Code	GQ3ECCCV
ට Image Recovery		
A Image Lindate		

4. Add service

Add the service you want to remote to use. (SSH as an example)

		•	3	Q			
U				NAME	STATUS	ONLINE TIME	TAGS
$\stackrel{\rightarrow}{\leftarrow}$	Connections		A	ecu1051-c973f8	Online		
(4]	Devices	1					
-04	Networks						
[22]	Organization						
	Logs						

Y		•	<i>2</i> Q		New service	
			A ecu1051-c973f8		LOCAL CLOUD	
$\stackrel{\rightarrow}{\leftarrow}$	Connections		+ TAG		O	
(i-1)	Devices	1				
-04	Networks		SERVICE	↓≙ +	SERVICE SETUP -	
[:::]	Organization					
	Logs				HTTP HTTPS SSH VNC RDP SMB/CIFS	More $\vee$
Ţ	Scripting	7			service host * 127.0.0.1	Enter a local netw configure this as AWS example: vp identifier.region.e
1	Registrations	7			SERVICE PORT *	Port the application
	Products	7			22	unless you know
.0	Inhox				SERVICE NAME SSHtest	
					SERVICE DESCRIPTION 	Service descriptic
					Enable service Disabling your service will take it offline. Service is enabled	
				_	SETUP CONNECTION DEFAULTS >	
					SAVE	

Then you should wait for some times for the service preparing.

When showing like below picture, you can click "connect" to enable the service.

V		•	<i>7</i> Q		sshtest		
⇒	Connections		A ecu1051-c973f8 + TAG			► CONNECT	
ž. [].	Devices Networks	1	SERVICE	↓2 +	LOCAL CLOUD		
120	Organization		echtaet	H22			
	Logs		Part Indus		CONNECTION >		
T	Scripting	2			SERVICE -		
£	Registrations	7			Service configuration		
8	Products	71					
					CONNECTED TIME		
S.	Inbox				0 seconds		
Ø	(	•	C Q	sshtest			¢ :
-		-	A ecu1051-c973f8			B DISCONNECT	
→ (	Connections	D	+ TAG			Disconcer	
-21	Devices Networks	1	SERVICE J2	+ LOCAL CL	000		SERVICE
E (	Organization		sshtest S	вя			
	Logs			PUBLIC EN	POINT 1.io:31059		
E :	Scripting	2		COPY			LAUNCH
± 1	Registrations	я			-0 Ø		7
8	Products	я		Duration: Connectio	22 seconds π Public Proxy		
<b>0</b>							
	I I D D A						

Then you can use the IP and port it shows in everywhere can use internet to access SSH to ECU.

Reputition	? ×	
Category:		
Category: Category:	Basic options for your PuTTY session         Specify the destination you want to connect to         Hoet Name (or IP address)       Pot         proxy71.rt3.0       31059         Connection type:       Image: SSH	
proxy71.rt3 login as: root@prox root@ecu1051	do - PuTTY root y71.rt3.io's password: L-c973f8:~#	

## **Batch Devices Set up**

- 1. Preconfigure remote.it services at web portal
  - 1) Sign-in remote.it web portal <a href="https://app.remote.it/#/">https://app.remote.it/#/</a>

Ô	https://app.remote.it/#	/	P	A»	аљ	٢0	£≞	Ē	<u>√</u>
	(	G SIGN IN WIT	'H GOOG	E					
		or							
	Email *								
		SIGN IN							
	Remember me			For	rgot yo	ur passw	vord?		
	÷	https://app.remote.it/#	https://app.remote.it/#/  SIGN IN WIT  or  Email *  SIGN IN  Remember me	https://app.remote.it/#/ G SIGN IN WITH GOOD or Email * SIGN IN Remember me	https://app.remote.it/#/	https://app.remote.it/#/  A ab  G SIGN IN WITH GOOGLE  or  Email *  SIGN IN  Forgot you	https://app.remote.it/#/	https://app.remote.it/#/	https://app.remote.it/#/   Image: All object     Image: Content of the second

- Don't have an account yet? Sign up for free! Username/Password Login
- 2) Click [Products] -> [CREATE PRODUCT].

	eremote.it 🗸	<ul> <li>Products</li> <li>+ create product</li> </ul>				
•کر	Devices	Name	Platform	Scope	Status	C
	Contacts					20
þ	Scripting					20
	Registrations			100		20
8	Products		100			20
۵.	Logs			1.00		20
	Partner Portal					20

3) Type specific name for this product (service set), choose "ARM Linux" then Click [Submit].

Create Pr	oduct
Enter the product attributes then press Submi	1 6
ARM Linux	
	Cancel Submit
Click the gear icon of the product which you	created now.

I GREATE PRODUCT								
						Filter	٩	•
Name	Platform	Scope	Status	Created	<b>↓?</b> Updated		Act	ions
20211208_test_product1	ARM Linux (4B0)	Private	New	2021/12/8 11:15:25	2021/12/8 11:	15:25	۲	Ŵ

5) Add services that you want to make as preset service. Don't forget to check "Check to enable Service to start by defalt" in Set Service page.

Set Serv Enter Service attributes t	VICE then press Submit.	×			Product Se 20211208_test_	ettings product1			×
HTTP (Proxy)			Add Use the Add	d button to include the re	quired Services into 1	io your Product	Filter	٩	
Web01			Service Name	Service Type	Service Port	Product Platform	n Enabled	Action	
443			Web02	Web_Proxy (7)	6001	ARM Linux (4B0	) yes		
			Required Bulk	Required Bulk (35)	0	ARM Linux (4B0)	) yes		
Check to enable Service to start by default			Web01	Web_Proxy (7)	443 ing files	ARM Linux (480)	) yes		
	Cance	Submit						Cancel	Submit

6) Once you have added all the services you want, check "Check to lock product and create provisioning files" and click the [Submit] button.

20211208_test_product1					
Add Use the A	add button to include the re	equired Services into	to your Product		
			Filt	er	۹ 🗸
Service Name	Service Type	Service Port	Product Platform	Enabled	Action
Web02	Web_Proxy (7)	6001	ARM Linux (4B0)	yes	ĺ.
Required Bulk	Required Bulk (35)	0	ARM Linux (4B0)	yes	
Web01	Web_Proxy (7)	443	ARM Linux (480)	yes	Ĺ
Check to lock pro	oduct and create provision	ing files			

7) Click the information icon of the product which you created.

+ CREATE PRODUCT								
							Filter	۹ -
Name	Platform	Scope	Status	Created	ţ;	Updated		Actions
20211208_test_product1	ARM Linux (4B0)	Private	Locked	2021/12/8 11:15:25		2021/12/8 11:26	:04	🛓 🕕 🏟 🗎

8) Copy the Bulk Identification Code. We will use this code in the following step.

	20211208_te	st_product1	
This Bulk Identificat following code and p Bulk Identification (	ion Code must be placed on the Product firmy place it on the device firmware image accordi Code:	ware image to support device regist ing to the appropriate documentatio	ration. Just copy the n.
07	ion can be shared directly by sending the prod	luct code to other users for bulk reg	istration. Just copy the
following code and	send it.		
Product Code			
7Et	\$85		
7Et Users who have pre- product's user base.	85 viously used this product definition are listed	below. You can use this information	to stay in touch with your
7EC VIEW VIEW VIEW VIEW VIEW VIEW VIEW VIEW	385 viously used this product definition are listed Registration Information	below. You can use this information Device Count	to stay in touch with your Updated

- 2. EdgeLink Configuration
  - 1) Enable Remote.it in EdgeLink Studio.

⊡ 1251sdfs ⊡	Apply Discard					
	General Information					
G Gevice Gev	☑ Enable Remote.It					
Connectivity	remote.it allows you to make secure remote connections between two computers.					
Active Connection	- crossing multiple NATs/firewalls					
Advantech/VPN	- using a single TCP port					
Remote.It	- portforwardless: without requiring port forwarding in the router, significantly reducing y					
	- many TCP-based protocols and applications are supported					
	- SSH/SCP					
	- VNC, RDP, Mac Screen Sharing					
	- http/https (web servers and applications such as node-red)					
	- SMB (Samba) file sharing					
	- other protocols supported under the "custom TCP" option, e.g. MQTT					
2) Set the Bulk Identification Code to	the registration file.					

- root@ecul251-03d899:~# echo YOUR\_BULK\_IDENTIFICATION-CODE > /etc/remoteit/registration
  3) Delete the auto-created configuration file.
  root@ecul251-03d899:~# rm /etc/remoteit/config.json
- 4) Reboot ECU.

Once connected to the Internet, it should automatically register to the account where you created the product (service set), and the preset services should be enabled.

Other ECU which you want to batch set up need to do the same steps.