Hướng dẫn Mở Cổng Modem (Open Port/Port Forwarding/NAT/Virtual Server)

1. Cổng là gì?

Cổng là một lối đi ảo trên các thiết bị Modem mà các thông tin từ mạng Internet sẽ đi qua. Trên Modem có tất cả 65,536 cổng có thể sử dụng.

Bình thường, hầu hết các cổng đều ở trạng thái đóng, chặn các dữ liệu truy cập từ bên ngoài đi qua.

2. Mở cổng là gì?

Mở cổng là một thuật ngữ để chỉ kĩ thuật giúp cho người dùng có thể truy cập vào các thiết bị mạng trong nhà từ bên ngoài Internet, thông qua việc mở một lối đi ảo từ bên ngoài tới thiết bị trong nhà. Mỗi cổng có thể đưa tới một thiết bị khác nhau.



Hình 1 – Mỗi cổng có thể dẫn tới một thiết bị khác nhau

Kĩ thuật này được sử dụng phổ biến trong các trường hợp Hosting Game, Peer-to-Peer, Voice-over-IP, Camera,...

3. Hướng dẫn mở cổng

Tài liệu này sẽ hướng dẫn sử dụng trang <u>http://www.portforward.com</u> để mở cổng cho một Modem/Router bất kì.

Trong hướng dẫn này sẽ giả định:

- Router sử dụng: TP-Link TL-WR720N

- Cổng cần mở: 8686
- **IP thiết bị HC**: 192.168.1.150

<u>Bước 1</u>: Truy cập trang <u>http://www.portforward.com</u>

₽ Free Help Forwarding Ports × +	
FORT FORMARD	External IP: 171.224.122.12
fired of Trying to Forward a Port? PFConfig will Forward	
a Port for you right now. Get PFConfig	The #1 Resource for Forwarding Ports Portforward Games
Port Forwarded	Port Forward Destiny Port Forward Call of Duty: Advanced Warfare Port Forward Halo 5: Guardians Port Forward Assassins Creed Unity List of more games
List of all Routers List of all Programs ioftware Port Forwarding Software Static IP Software	Static IP Guides • Static IP on the Xbox One • Static IP on the PS4 • More Static IP guides Portforward Gaming Consoles
Port Checking Software Double Router Detector Screenshot Grabber louters Port Forwarding Guides	 How To Port Forward the Xbox One How To Port Forward the Xbox 360 How To Port Forward the PS4 How To Port Forward the PS3
Screenshot Database Router Passwords	Portforward Guides Hình 2 - Giao diện trang portfoward.com

<u>Bước 2</u>: Ấn vào mục List of all Routers để tìm hãng Modem



Bước 3: Trong ví dụ này, ta tìm hãng TP-Link



Bước 4: Nếu có quảng cáo hiện ra thì tắt đi



Hình 6- Tắt quảng cáo

Bước 5: Chọn tiếp số hiệu Modem, trong ví dụ này là TL-WR720N

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G portorward.com/english/roditers/port_rorwarding/re-cim/de	efault.htm	86 → ☆ 自 🛛 II ♠ ♠ ⋪ 💁 ७ 🕸 🖛 -
	Home > Routers > TP-Link	External IP: 171.224.122.12
FORT FORMAND		TD Link works
	How to forward ports o	n TP-Link routers
	TP-Link was founded in 1996 in China.	They went international in 2005 and have become one of the leading
	producers of both wired and wireless ro	uters. They are uncomplicated to configure, and overall have good
ired of Trying to Forward a Port?	performance reactives.	
	Open Port on TP-Link Rou	iters
PFConfig will Forward	TP-Link routers call a port forward a Vir	tual Server which may confuse you but overall are quite simple to set
a Port for you right now.	up, and their port forwarding section is basic user interface, although a lot of the	no different. One thing that is nice about the TP-Link routers is the meir routers have different interfaces they are all quite easy to follow.
	If you cannot find your exact router in	he list below try following one of our TP-Link TD-8816 guides. That
Get PEConfig	should get you an open port on pretty	much any TP-Link router.
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Port Forwarded		
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me	AC1750	Archer C7
List of all Routers		
list of all Programs		Т
ftware Port Forwarding Software	TD-8616	TL-R470T_Plus
Static IP Software	TD-8800	TL-WDR4300
Port Checking Software	TD-8810	TL-WR1043N
Screenshot Grabber	TD-8816	TL-WR1043ND
uters	TD-8817	TL-WR1043ND DDWRTv24SP2
Port Forwarding Guides	TD-8840	TI -WR2543ND
Router Passwords		
	Hình 7 - Trang chon sô	hiêu thiết bi
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Hình 8 - Chọn thiết bị cần cấu hình

<u>Bước 6</u>: Sau khi chọn chính xác số hiệu Modem, trang tiếp theo sẽ hiện lên danh sách hướng dẫn mở cổng cho từng ứng dụng. Các hướng dẫn này sẽ chỉ khác nhau ở cổng cần

mở. Vì vậy có thể **chọn một hướng dẫn bất kì**, sau đó trong quá trình cài đặt sẽ thay cổng trong hướng dẫn bằng cổng mong muốn. Ví dụ ở đây chọn *Apache*



Hình 10 - Nhập địa chỉ thiết bị cần trỏ tới



<u>Bước 7</u>: Nhập địa chỉ IP của HC vào ô như trong hình trên. Ở đây nhập 192.168.1.150

<u>Bước</u> 8: Tiếp tục thực hiện theo hình ảnh hướng dẫn. Hầu hết các Modem sẽ cấu hình theo các bước sau:

- Truy cập vào Modem cần mở cổng
- Tìm tới mục mở cổng trên modem. Trong ví dụ này, theo các hình ảnh hướng dẫn, mục mở cổng là Advanced Settings → Forwarding → Virtual Servers
- Nhập thông số để mở cổng theo hình ảnh hướng dẫn. Lưu ý thay phần Service Port thành cổng cần mở. Trong ví dụ này sửa giá trị 80 thành 8686.

Service Port:	80
IP Address:	192.168.1.150
Protocol:	ALL 🗸
Status:	Enabled -
Common Service Port:	Select One 👻

Hình 12- Nhập thông số cổng cần mở

- Lưu các thông số vừa cài đặt

<u>Bước 9</u>: Kiểm tra việc mở cổng thành công chưa.

- Truy cập trang <u>http://www.yougetsignal.com/tools/open-ports/</u>

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www.yougetsignal.com/tools/open-ports/	[기 코 연] 🔍 vtv cable mở cổng 🔿	☆	r 🏚		• 1	🖉 🐠 –	٩		ø	9	•	≡
Image: www.yougetsignal.com/tools/open-ports/ Image: www.youg	Couget signal Port Forwarding Tester your external address your external address 171.224.122.12 open port finder Remote Address 171.224.122.12 revise Current P Check a port's status by entering an address and port number above. Is your router causing you massile girle? Try picking up a cheap Netgeer NS60 on Amazon or Newegg. Since I bought one last year, I've never had to reboot it. Port forwarding is a breeze to setup. If my tool has been helpful to you, check out my desktop wallpaper site or follow me on Twitter @kirkoumet.:) The open port checker is a tool you can use to check your external IP address and detect open port onyour connection. This tool is useful for finding out if your port forwarding is a setup correctly or if your server applications are being blocked by a firewal. This tool may also be used as a poir scamer to scan your network for ports that are commonly forwarded. It is important to note that some ports, such as port 25, are often blocked at the ISP level in an attempt to prevent malicious activity. For more a comprehensive list of TCP and UDP ports, check out this Wikipedia article. If you are looking for a software solution to help you configure port forwarding on your network, ty using this powerful Port Forwarding Wizzed.	Corr 21 F 22 S 23 T 25 S 53 C 110 115 135 135 143 194 443 3300 3384 445 5632 5900 6112 Sca	mmoor FTP SSH TELNETS SMTP DNS SFTP I RPC I MAP I RPC I MAP I RC I MAP I RC I MAP I RC I MAP I RC I SSL I SS	Point of the second se	s s		٥	•	9	3°		E
	If you are looking for a software solution to nelp you compute port torwarding on your network, ty using this powerful Port Forwarding Wizard.	75.41 2.		0)						-

- Nhập giá trị cổng cần kiểm tra. Ở đây là 8686, rồi ấn *Check*

Port Forwarding Tester your external address 171.224.122.12
open port finder
Remote Address 171.224.122.12 Port Number 8686 Check
Port 8686 is open on 171.224.122.12

Hình 14- Kết quả kiểm tra

- Nếu thành công, kết quả trả về sẽ như hình trên.

4. Một số lưu ý

- Nếu không tìm thấy chính xác số hiệu chủng loại Router, thì có thể thử các số hiệu gần nhất, có thể sẽ giống nhau.
- Nếu sau khi thực hiện các bước trên mà cổng vẫn chưa mở. Tìm và đảm bảo tính năng Firewall của Modem đã được tắt.
- Trường hợp HC được cắm qua hai tầng Modem/Router, cần phải thực hiện việc mở cổng trên cả 2 Modem. Trong đó, trên Router #1, mở cổng tới Router #2, trên Router #2, mở cổng tới HC.



Ví dụ:

- Trạng thái ban đầu:
 - Router #1 có địa chỉ External IP là IP của nhà mạng cung cấp, Internal IP trong LAN1 là 192.168.1.1
 - Router #2 nối vào Router #1. Router #2 lúc đó có địa chỉ External IP trong mạng LAN1 là 192.168.1.xxx, là địa chỉ được cấp phát động bởi Router #1. Internal IP trong mạng LAN2 là 192.168.0.1
 - HC nối với Router #2. Có địa chỉ IP trong LAN2 là 192.168.0.150



• Thực hiện việc mở cổng:

- Truy cập vào Router #2
- Tìm mục cấu hình địa chỉ WAN/External IP của Router #2
- Đổi từ chế độ IP từ DHCP (động) thành STATIC (tĩnh)
- Dặt WAN/External IP là 192.168.1.254
- Trên Router #1, thực hiện mở cổng với địa chỉ đích là địa chỉ External IP của Router #2: 192.168.1.254
- Trên Router #2, thực hiện mở cổng với địa chỉ đích là địa chỉ IP của HC: 192.168.0.150
- Hoàn thành

