



0.1 Cài đặt node-red-admin

Cài đặt node-red và node-red-admin (hỗ trợ xác thực người dùng) bằng cách mở commandline

```
npm install -g --unsafe-perm node-red node-red-admin  
node-red-admin hash-pw
```

Thêm password vào file settings.json trong thư mục C:/Users/<User>/node-red

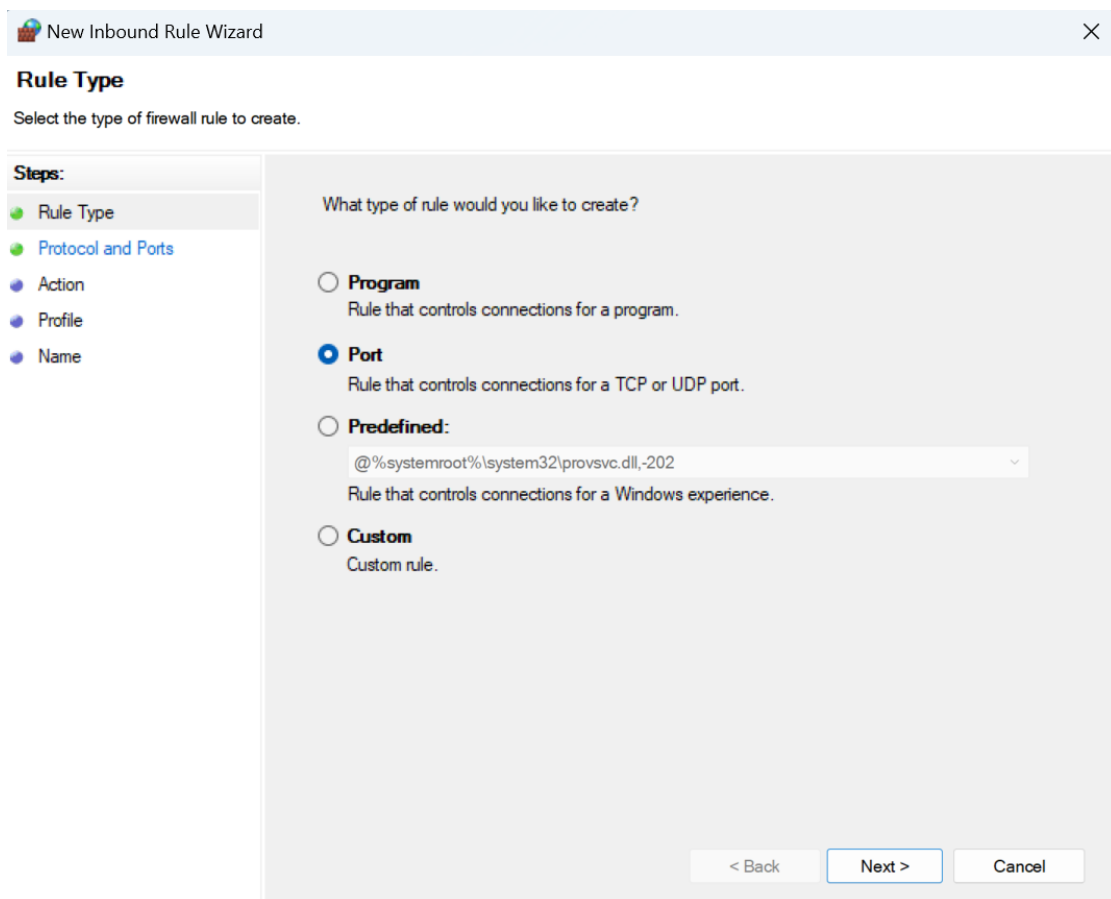
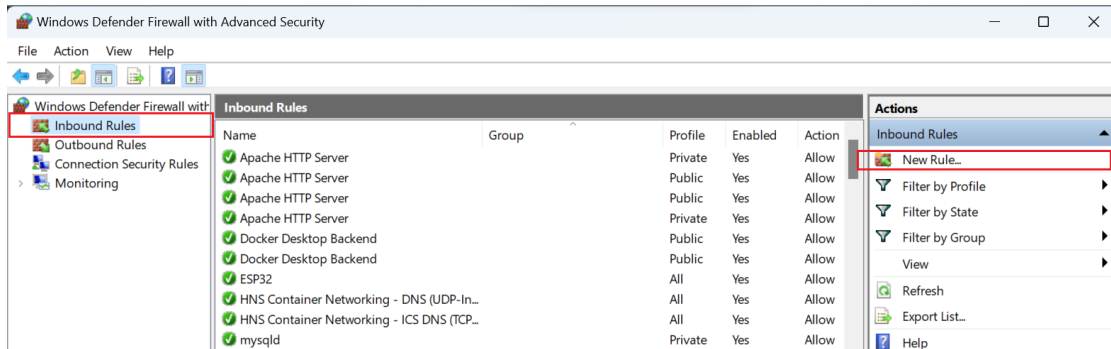
```
C:\Users\nduchau\.node-red>node-red-admin hash-pw  
Password:  
$2b$08$D0WzgIYneSURTHLxPvMnZOckV9ENaOmKjiGfMyVrtLamcqJjYKofK
```

```
adminAuth: {  
  type: "credentials",  
  users: [{  
    username: "admin",  
    password: "$2b$08$D0WzgIYneSURTHLxPvMnZOckV9ENaOmKjiGfMyVrtLamcqJjYKofK",  
    permissions: "*" } ]  
}
```



0.2 Fix lỗi không kết nối được MQTT trên local

Mở port 1883 cho giao thức MQTT trên môi trường local





New Inbound Rule Wizard

Protocol and Ports

Specify the protocols and ports to which this rule applies.

Steps:

- Rule Type
- Protocol and Ports**
- Action
- Profile
- Name

Does this rule apply to TCP or UDP?

☒ TCP
☐ UDP

Does this rule apply to all local ports or specific local ports?

☐ All local ports
☒ Specific local ports:

1883

Example: 80, 443, 5000-5010

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New Inbound Rule Wizard

Action

Specify the action to be taken when a connection matches the conditions specified in the rule.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

What action should be taken when a connection matches the specified conditions?

☒ **Allow the connection**
This includes connections that are protected with IPsec as well as those are not.

☐ **Allow the connection if it is secure**
This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.

Customize...

☐ **Block the connection**

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Next >

Cancel

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New Inbound Rule Wizard

Profile

Specify the profiles for which this rule applies.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile**
- Name

When does this rule apply?

- ☒ **Domain**
Applies when a computer is connected to its corporate domain.
- ☒ **Private**
Applies when a computer is connected to a private network location, such as a home or work place.
- ☒ **Public**
Applies when a computer is connected to a public network location.

< Back Next > Cancel



New Inbound Rule Wizard ✕

Name
Specify the name and description of this rule.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name**

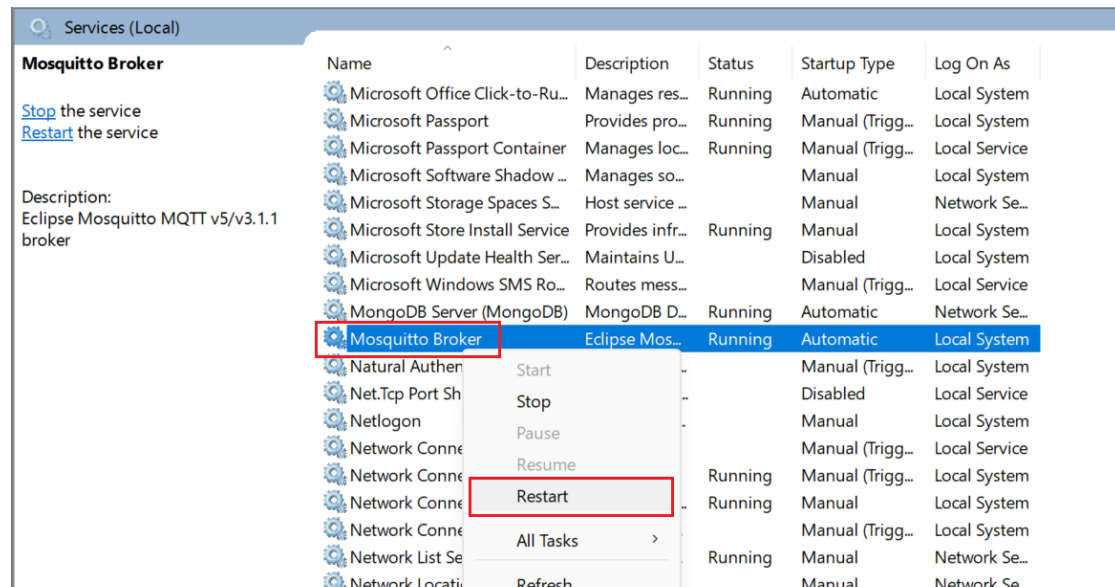
Name:

Description (optional):

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Finish

Cancel



```
C:\Windows\System32>netsh interface portproxy add v4tov4 listenaddress=192.168.1.249 listenport=1883 connectaddress=127.0.0.1 connectport=1883

C:\Windows\System32>netsh interface portproxy show all

Listen on ipv4:          Connect to ipv4:
-----
Address      Port      Address      Port
-----
192.168.1.249 1883     127.0.0.1    1883
```