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Lab 6 Introduction to Node-Red

1) Node-Red Installation Steps

```
Welcome to Termux!

Community forum: https://termux.com/community
Gitter chat:    https://gitter.im/termux/termux
IRC channel:    #termux on libera.chat

Working with packages:

* Search packages:  pkg search <query>
* Install a package: pkg install <package>
* Upgrade packages:  pkg upgrade

Subscribing to additional repositories:

* Root:    pkg install root-repo
* X11:     pkg install x11-repo

Report issues at https://termux.com/issues

- $ apt update
Hit:1 https://packages.termux.dev/apt/termux-main stable
InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
- $ apt upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upg
raded.
- $ █
```

Figure 1 Termux update and upgrade

1. Make sure Termux packages updated and upgraded

```
10:08 [status icons]
- $ npm i -g --unsafe-perm node-red
[redacted] \ reify:@node-red/editor-client: h
> bcrypt@5.0.1 install
> node-pre-gyp install --fallback-to-build

node-pre-gyp info it worked if it ends with okclient: h
node-pre-gyp info using node-pre-gyp@1.0.10
node-pre-gyp info using node@18.12.1 | android | arm64
node-pre-gyp info check checked for "/data/data/com.termux/files/usr/lib/node_modules/node-red/node_modules/bcrypt/lib/binding/napi-v3/bcrypt_lib.node" (not found)
node-pre-gyp http GET https://github.com/kelektiv/node.bcrypt.js/releases/download/v5.0.1/bcrypt_lib-v5.0.1-napi-v3-android-arm64-unknown.tar.gz
node-pre-gyp ERR! install response status 404 Not Found on https://github.com/kelektiv/node.bcrypt.js/releases/download/v5.0.1/bcrypt_lib-v5.0.1-napi-v3-android-arm64-unknown.tar.gz
node-pre-gyp WARN Pre-built binaries not installable for bcrypt@5.0.1 and node@18.12.1 (node-v108 ABI, unknown) (falling back to source compile with node-gyp)
node-pre-gyp WARN Hit error response status 404 Not Found on https://github.com/kelektiv/node.bcrypt.js/releases/download/v5.0.1/bcrypt_lib-v5.0.1-napi-v3-android-arm64-unknown.tar.gz
gyp info it worked if it ends with okd/editor-client: h
gyp info using node-gyp@9.1.0
gyp info using node@18.12.1 | android | arm64
gyp info ok
gyp info it worked if it ends with okd/editor-client: h
gyp info using node-gyp@9.1.0
gyp info using node@18.12.1 | android | arm64
gyp ERR! find Python \ reify:@node-red/editor-client: h
gyp ERR! find Python Python is not set from command line or npm configuration
gyp ERR! find Python Python is not set from environment variable PYTHON
gyp ERR! find Python checking if "python3" can be used
gyp ERR! find Python - "python3" is not in PATH or produced an error
gyp ERR! find Python checking if "python" can be used
gyp ERR! find Python - "python" is not in PATH or produced an error
gyp ERR! find Python
gyp ERR! find Python *****
gyp ERR! find Python You need to install the latest version of Python.
gyp ERR! find Python Node-gyp should be able to find and use Python. If not,
gyp ERR! find Python you can try one of the following options:

ESC / - HOME ↑ END PGUP
CTRL ALT ← ↓ → PGDN
```

Figure 2 Installing Node-Red

2. Install Node-Red using command `npm i -g --unsafe-perm node-red`

2) Access Node-Red Server (Smartphone) from another PC/Laptop

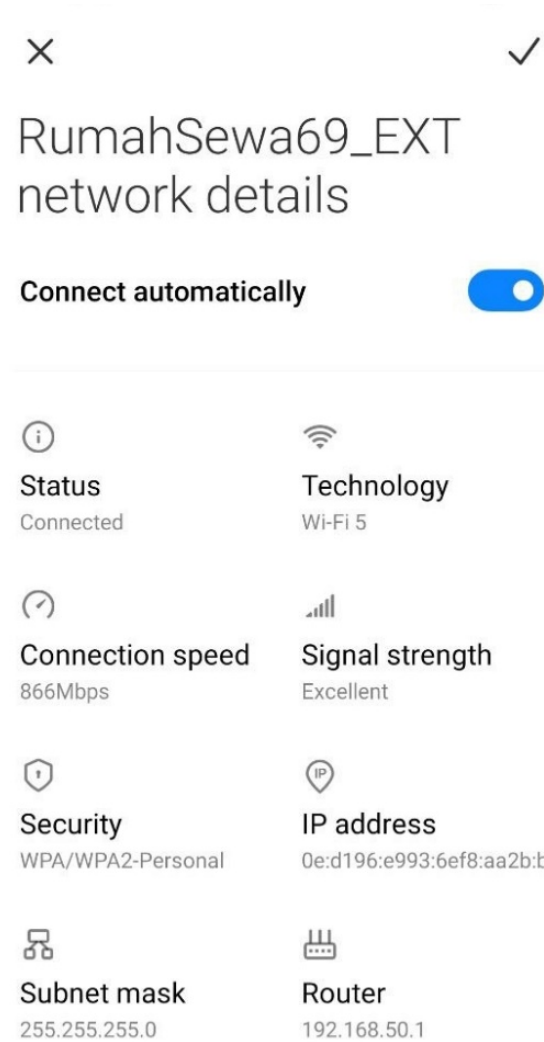


Figure 4 Wi-Fi settings

1. Find phone's local IP address on Wireless settings.
2. Access Node-Red interface using browser and server IP address e.g.
192.168.50.221:1880

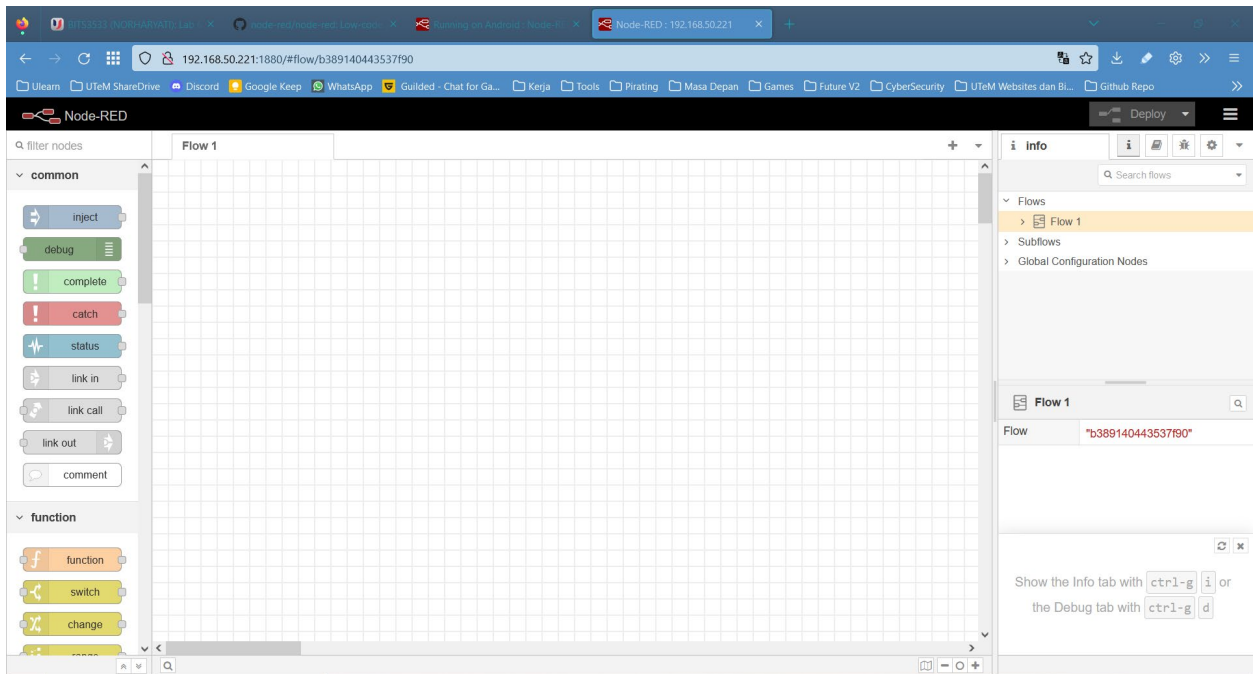


Figure 5 Node-Red Interface using Izham's IP and mobile phone server

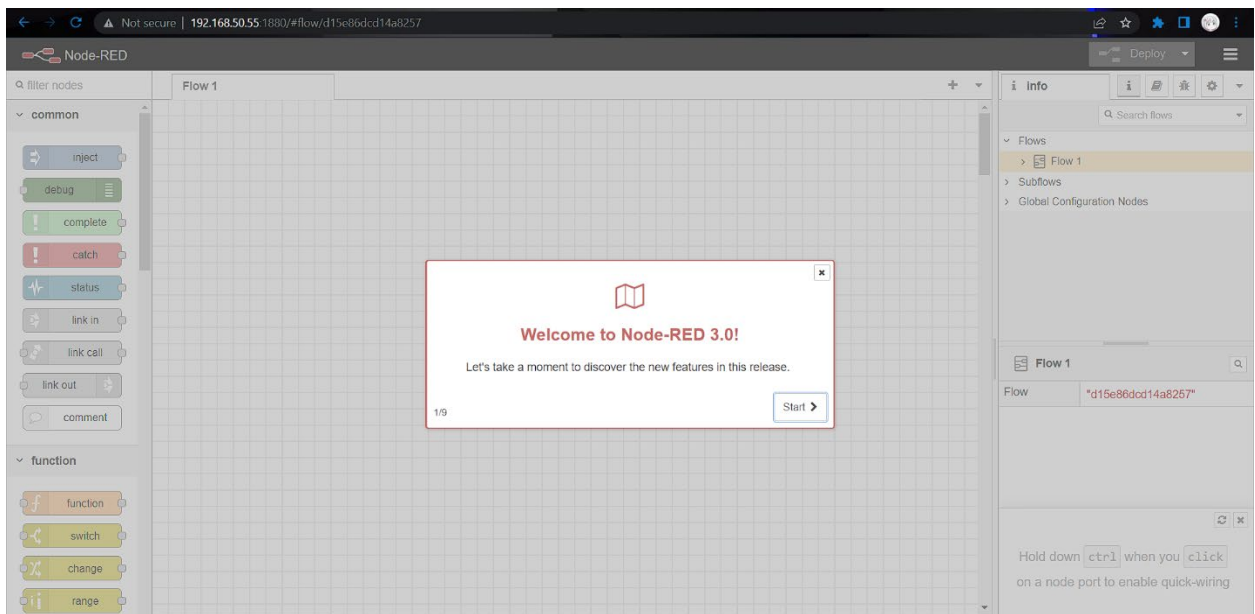


Figure 6 Node-Red Interface using Ahmad's IP and mobile phone server

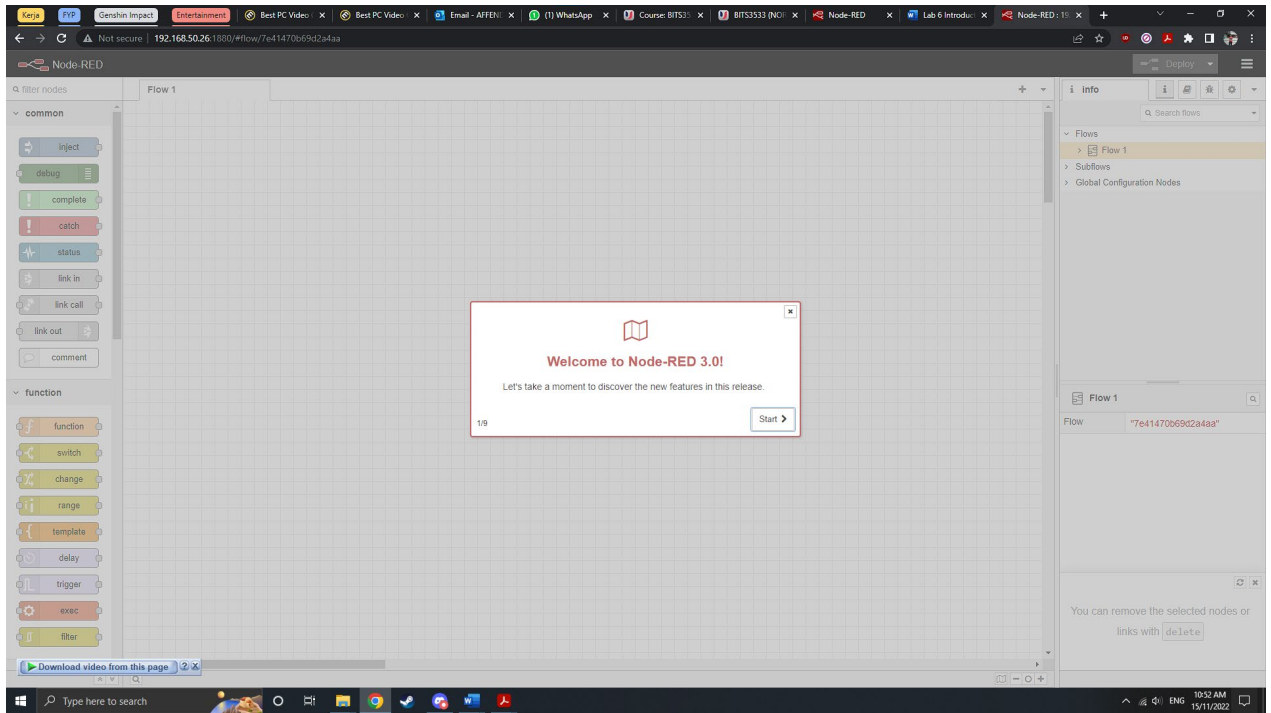


Figure 7 Node-Red Interface using Affendy's IP and mobile phone server