TerraMaster TOS Application Developer Guide

For ARM 64bit platform

Updated: 11 June, 2019

1. System Requirements

1.1 AMD 64 bit Linux

1.2 Need to install host build tools

2. Preparation

2.1 Please visit TerraMaster official website to download the file: buildtools.tar

2.2 Extract the file to your directory(filter the archive through xz)

2.3 There is example code inside the extracted directory

Note: if you need web interface for your program, please edit configuration **/etc/nginx/nginx.conf**

3. How to make an APP package for TerraMaster NAS

Create a working directory to store the structure and program of your application.

3.1 If you have files need to be installed to TerraMaster NAS system etc directory(/etc), please create an etc folder under the working directory(<working_directory>/etc), then copy those files to <working_directory>/etc.

```
<working_directory>$ mkdir ./etc
<working_directory>$ cp <your app path>/file    ./etc
```

3.2 If you have files need to be installed to TerraMaster NAS system lib directory(/lib), please create an lib folder under the working directory(<working_directory>/lib), then copy those files to <working_directory>/lib.

```
<working_directory>$ mkdir ./lib
<working_directory>$ cp <your app path>/file    ./lib
```

3.3 If you have files need to be installed to TerraMaster NAS system usr/bin directory(/usr/bin), please create an usr/bin folder under the working directory(<working directory>/usr/bin), then copy those files to the usr/bin folder you just created.

```
<working_directory>$ mkdir ./usr
<working_directory>$ mkdir ./usr/bin
<working_directory>$ cp <your app path>/file    ./usr/bin
```

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3.4 So if you have more files need to be installed into different TerraMaster NAS system directory, please follow the same way as step 2, step 3 or step 4.

3.5 Create an APP package under the working directory.

```
<working_directory>$tar -cvf app_name.tar    </..../your app path>/*
```

4. Install and test your APP in TerraMaster NAS system

In order to test your new built APP in Terramaster NAS system, you have to buy a TerraMaster NAS unit with X86 platform, or please contact with our engineer to acquire SSL information for our test machine.

4.1 Copy your APP package to TerraMaster NAS system directory: /mnt/public

4.2 Change to TerraMaster NAS system root directory, extract the APP file *app_name.tar* under this directory.

```
<any path>$ cd /
/$ tar -vxf /mnt/public/app_name.tar
```

5. Launch your application on TerraMaster APP market

5.1 As soon as your APP ready to launch, please send TerraMaster product team your *app_name.tar* package.
5.2 TerraMaster product team will test the application.
5.3 As soon as the application is approved, TerraMaster product team will launch the application in TerraMaster market for download.

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