# Host dotnet Core website on local

> dotnet MyWebsite.dll

* By default this will host <http://localhost:5000>

## Run when Raspberry Startup

> cd /lib/systemd/system

* Navigates to the folder where all the startup services are

> sudo pico mywebsite.service

* ‘mywebsite’ is your website name
* Create the file

Write the following in the file and change the necessary values.

#Simple starter config

[Unit]

#80 char maximum

Description=Simple application.

#Simple starter config

[Unit]

#80 char maximum

Description=Simple application.

[Service]

#Simple is the default, and as such this could be omitted/

Type=simple

WorkingDirectory=/var/www/webapp

ExecStart=/usr/local/bin/dotnet /var/www/webapp/sampleApp.dll

#User=web

[Install]

#options are graphical, for GUIs, or multi-user for everthing else.

WantedBy=multi-user.target

> sudo systemctl daemon-reload

> sudo systemctl start RaspberryPiWebsite

> sudo systemctl enable RaspberryPiWebsite (this will startup website when raspberry boots)

# Hosting a website on nginx with subdirectory

## Sites-available

Navigate to the following path ‘’ /etc/nginx/sites-available”

Within the “default.confg” file the following content must be entered

server {

listen 80;

location / {

proxy\_pass http://localhost:5000;

proxy\_http\_version 1.1;

proxy\_set\_header Upgrade $http\_upgrade;

proxy\_set\_header Connection keep-alive;

proxy\_set\_header Host $host

proxy\_cache\_bypass $http\_upgrade;

}

}

Location / is the Dotnet core website on the root directory

TestSite is a website on a subdirectory

> sudo systemctl restart nginx

* Restarts nginx

## Add html site to subdirectory

location /TestSite {

alias /var/www/TestSite;

index index.html;

try\_files $uri $uri/

autoindex off;

}

## Add Dotnet core site on root

location / {

proxy\_pass http://localhost:5000;

proxy\_http\_version 1.1;

proxy\_set\_header Upgrade $http\_upgrade;

proxy\_set\_header Connection keep-alive;

proxy\_set\_header Host $host

proxy\_cache\_bypass $http\_upgrade;

}

## Add Dotnet core site subdirectory

location /Test/ {

proxy\_pass http://localhost:5000/;

proxy\_http\_version 1.1;

proxy\_set\_header Upgrade $http\_upgrade;

proxy\_set\_header Connection keep-alive;

proxy\_set\_header Host $host;

proxy\_cache\_bypass $http\_upgrade;

}

# Raspberry Camera module v2 Command Line command

## Setup

> sudo raspi-config

* Go down the menu and select ‘Interfacing Options’
* Then select ‘Pi Camera’
* It will prompt ‘Would you like the camera interface to enabled?’ select <Yes>
* Select <Finish>
* Reboot Pi

> sudo apt-get install vlc

* This install the vlc media player to view your videos

Hint: remember to disable the camera when you no longer need it.

## Still photo capture

> raspistill

* This will display all the features

> raspistill -o image.jpg

* This will take a still photo

> raspistill -w 640 -h 480 -q 5 -o test.jpg -tl 1 -t 99999999 -th 0:0:0

* This is an example to take multiple photos after each other, good for streaming purposes.

## Video capture

> raspivid

* This will display all the features

> raspivid –o testvideo.h264 –t 10000

* This will take a video for 10 seconds

> raspivid -0 testvideo.mjpeg –cd MJPEG –t 10000

* This records video in MJPEG format