

# Quick Start Guide: Remote Access

Nov 2020

## Housekeeping

#### Happy Friday!

- Participants will be muted until the Q&A session.
- Ask questions via chat
- We will be recording this webinar. And it will be available for playback on our YouTube channel, Blue Iris Support.
  - https://www.youtube.com/channel/UCDkejni\_hONfMPfl7l2u64g
- This presentation will also be available in the YouTube video notes for download.

# Agenda

- Introductions
- Software: Installation & Suggested Hardware
- Remote Access: Webserver & Mobile app (not Remote Administration)
- Q&A

# Software: Installation & Suggested Hardware

- 1. 15-day Trial
- 2. Download software

Cajoling Technologies – Blue Iris Tutorials.

https://www.youtube.com/playlist?list=PLnL59ZzaR6iJpZXRedTjEmrwWlxj1Vlcp

- Install & Camera Setup
- Clips & Archiving
- Motion Zones, Triggers and Alerts
- Scheduling & Profiles
- Port forwarding vs VPN

Home Tech Video – Blue Iris Tutorials

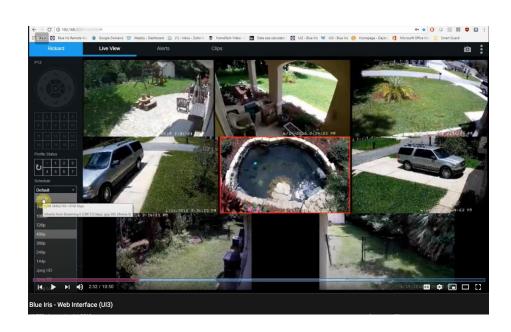
https://www.youtube.com/watch?v=rPIbTc8JRuU&list=PLwwZSA4tzwhOlkPaKIfgaA2Ajp7ZH8CWB

#### Web Server

YouTube: HomeTech Video – Blue Iris Web Interface UI3

https://youtu.be/-BbtW\_U8SIA

- Be able to look at home cameras while at work
- Allow certain employees access to specific cameras
- Allow the public access to specific cameras



## Mobile Apps

#### Android

A Blue Iris Android App Walk Through <a href="https://youtu.be/SvnCzcFQ7fA">https://youtu.be/SvnCzcFQ7fA</a>

#### iPhone/iPad

Blue Iris Remote Access On iPad & Android <a href="https://youtu.be/DDMwa3UINqc">https://youtu.be/DDMwa3UINqc</a>



## Objective: Remote Access

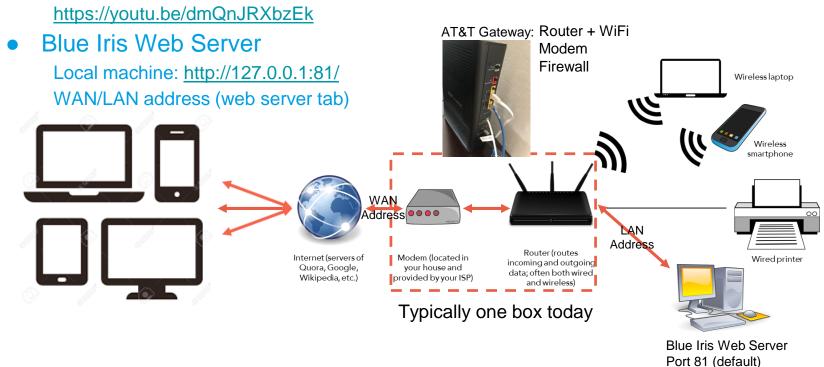
Last week: Connect your cameras to Blue Iris

Today: Remote access to your cameras anytime, anywhere on any device



# Method 1: Port forwarding

Eli The Computer Guy: Setting Up Port Forwarding



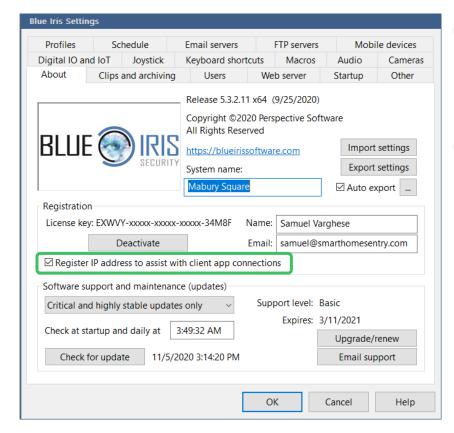
## Method 1: Port forwarding Demo

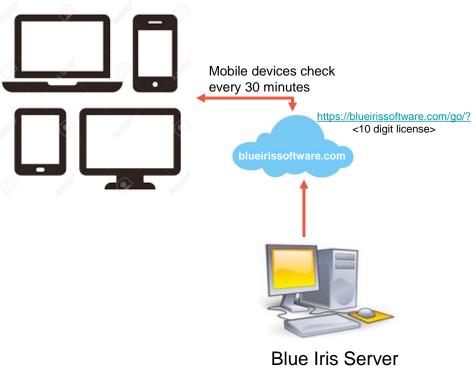
- Find the IP address of your network router using **ipconfig**.
  - This YouTube video, <a href="https://youtu.be/k1qgpqQ0Mo4">https://youtu.be/k1qgpqQ0Mo4</a>, explains the **ipconfig** command.
  - Remote Access Wizard provides router address.
- From your Chrome browser, go to the router IP address found in previous step.
  - Login to your router. You need to know username / password for your router.
- Firewall: Tell firewall to forward port 81 to Blue Iris server.
  - portforward.com: Has instructions for many routers
- LAN: Tell router to always assign same IP address (static IP address) to the Blue Iris Server

#### **Test**

- Access website from browser.
- Canyouseeme.org.
- Blue Iris Mobile App.

## Blue Iris – New WAN Address





#### Method 2: NGROK

- NGROK is a company started from an open-source project
  - ngrok.com (free & paid versions)



## Method 2: NGROK

Download software

Quick start video: What is ngrok?: <a href="https://youtu.be/UaxqJUXqvro">https://youtu.be/UaxqJUXqvro</a>
Blue Iris Help File: NGROK section

Run NGROK: ngrok http 81

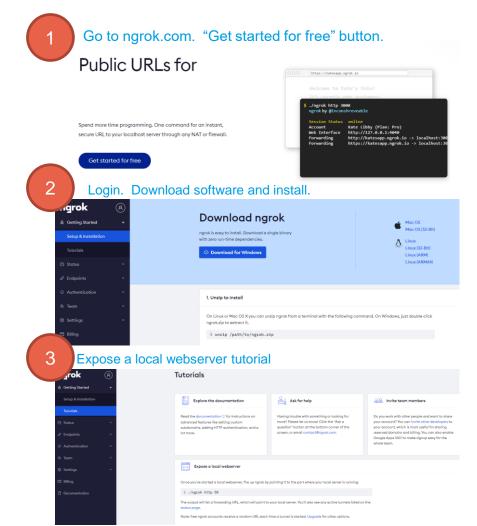
Get public NGROK URL

```
ngrok by @inconshreveable
Session Status
                              update available (version 2.2.4, Ctrl-U to update)
Version
                              2.1.18
                              United States (us)
Region
Web Interface
                              http://127.0.0.1:4040
Forwarding
                              http://930b65b1.ngrok.io -> localhost:3000
                              https://930b65b1.ngrok.io -> localhost:3000
Forwarding
Connections
                              ttl
                                                      rt5
```

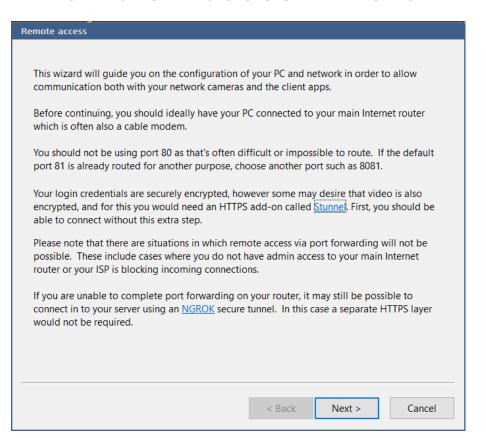
Blue Iris Help – good resource

Test

Blue Iris Mobile App.



## Remote Access Wizard

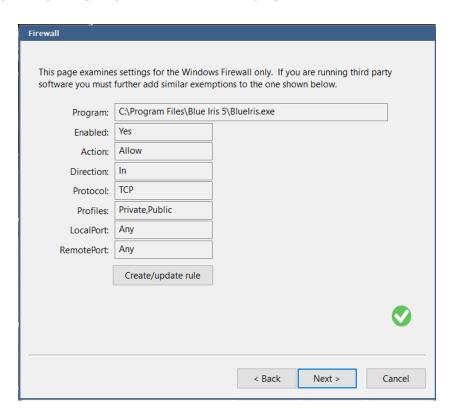


## Remote Access Wizard: Firewalls & Antivirus

- Windows Firewall
- Other Firewalls could be installed on your machine

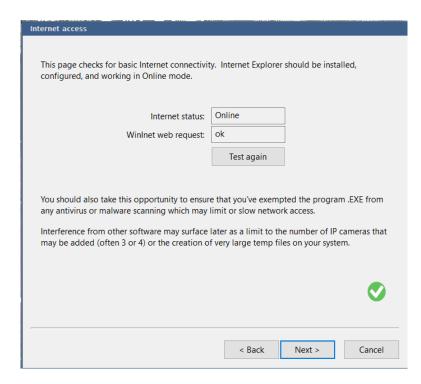
Need to configure all firewalls to trust Blue Iris to use the internet.

- Antivirus Software
  - McAfee
  - Symantec

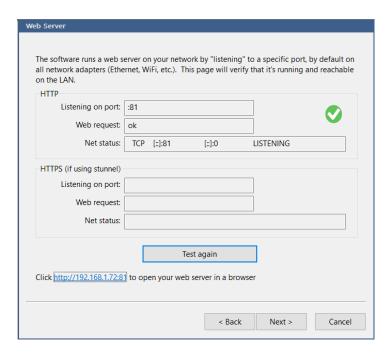


## Remote Access Wizard: Internet Access

Green check confirms internet access.



## Remote Access Wizard – Web Server



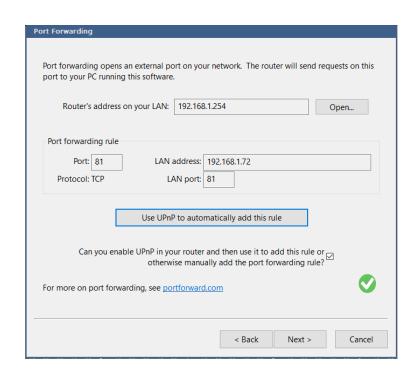
## Remote Access Wizard – Router

Router		
Your router is your gateway to the Int cameras.	ternet. It's also responsible for remote access to your	
Router's address on your LAN:	192.168.1.254 Open	
Your Internet/WAN address:	99.57.143.35:81	
Are you able to login to your router's configuration via browser? If necessary, obtain the admin password from your installer or device manufacturer.		
Does the router configuration show its WAN or gateway address matches your actual Internet/WAN address? Or can you configure both routers?		
If your router shows its gateway is 192.168.x.x or 10.x.x.x, then it's connected to another router, not the Internet directly. You can solve this in one of several ways:		
Connect your PC to the other router; set the main router to DMZ or forward ports to this router; or reconfigure this router as an access point or switch instead of a gateway.		
	< <u>B</u> ack <u>N</u> ext > Cancel	

## Remote Access Wizard – Port Forwarding

- Secure: Port forwarding / NGROK (tunneling)
- UPnP not available on all routers (AT&T)
   Stability: Server restarts. Router resets.
   Security

# @Bskbkid wrote: So, what options does a customer have with their security cameras? To open the ports on the firewall manually that the security camera needs. Or have a router behind a router setup. You dont specify to customers when selling this stuff that they cannot use their existing equipment. You can keep using your current equipment. I have a 2nd router acting as an access point so I can have the 802.11n 5GHz frequency to connect to. U-Verse is supposed to be the latest and greatest and wont support a simple protocol? What makes U-Verse great is that it doesn't allow for terrible protocols to be simply turned on by the average user.



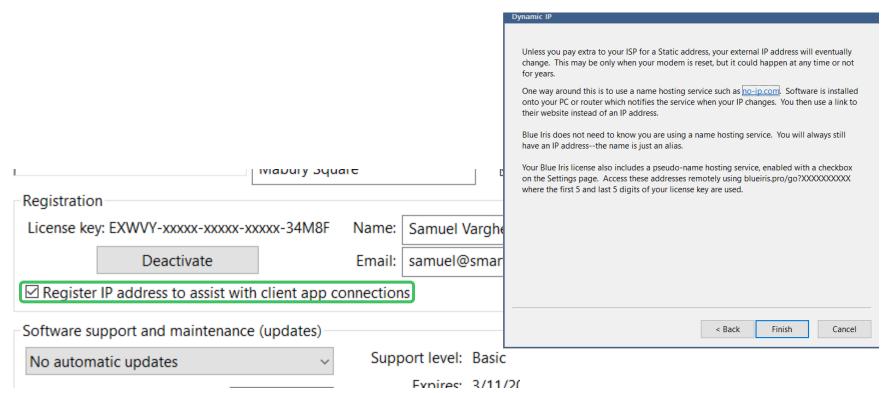
## Remote Access Wizard – Final Test

Remote Access Test	
This page performs a fis actually visible on th	inal test on your network and routing, to ensure that your external port e Internet.
WAN address:	http://99.57.143.35:81
Verified IP:	99.57.143.35
Verified server:	BlueServer/5.3.2.11
Test again  The IP address should match what you've seen so far as your Internet address. The server should say Blue Iris. If it shows another name, your router is forwarding this port to a camera, your router, or another device and this will need to be corrected.  You might also like to check out canyouseeme.org	
	< Back Next > Cancel

# Remote Access Wizard – Client app login

Client app login	
	sfully completed all prior steps, you should now be able to connect using apps with the following settings:
System name:	Mabury Square
Lookup key:	
LAN:	http://
	192.168.1.72:81
WAN:	http://
Username:	varghesesa
Password:	•••••••• Add admin now
	< Back Next > Cancel

# Remote Access Wizard – Dynamic DNS (DDNS)



## Webinars coming next

#### **Quick Start Guide**

- Remote Access (UI3, mobile phones)
- Storage: Clips & Archiving
- Triggers / Alerts
- Advanced Remote Access (Geo-fencing, Push notifications, https/Stunnel)

#### **Advanced Tuning Topics**

Why is my computer so slow?

- Performance tuning
- CPU
- RAM
- Stream loss / reconnects

#### **Advanced Networking Topics**

- RTSP Streams: Basic / Digest Authentication
- Cameras: Static vs Dynamic IP addresses
- Router Client Table
- Packet sniffer
- Advanced Port Scanner

#### Other topics

- Hardware recommendations
- 2-way audio

## Self Help Resources

- YouTube Channel: Blue Iris Support
   https://youtube.com/channel/UCDkejni\_hONfMPfl7l2u64g
- Blue Iris User Forum
   https://blueirissoftware.com/forum/index.php
- FAQs (in forum)
   https://blueirissoftware.com/forum/app.php/help/faq



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