

Self-Hosted Web Pages

Revisited



Objective

- Build and self-host web pages
- Securely
- Using existing hardware
- Page visitors do not get warnings
- Good quality streaming video and photos

Prior Difficulties

- Difficult configuration of server, requiring multiple software packages.
- Questionable security due to port forwarding.
- Not HTTPS - Users got an 'insecure website' warning.

What's Changed

- Internet connection through free, secure, Tailscale Funnel
 - They handle SSL certificate, HTTPS connection
 - No port forwarding or firewall rules
 - Users no longer see 'insecure website' warning
 - IP Address not revealed
- Server set up simplified

AI (Perplexity) generated CLI commands to set up Tailscale Funnel and links to Web Page files in Web Station (server app)
- Videos re-encoded to permit streaming without pauses or stuttering.

Design Web Site and Publish to Server Folder

The screenshot displays a web design application interface. The top toolbar includes icons for 'Add Page', 'Add Directory', 'Preview', and 'Publish'. Below this, the 'Saturday QA' title is centered. The main workspace shows a website layout with a sidebar on the left, a main content area, and a right-hand inspector panel.

Sidebar:

- Buttons: Add Page, Add Directory, Preview, Publish
- Section: New Master Page
- Folder: SATURDAY QA
- Items: Home, STEM, Archives

Main Content Area:

Navigation: TECHNOLOGY Q&A, STEM, ARCHIVES

Logo: Saturday Technology Q&A
Trilogy at Vistancia - STEM Club

Slogan: Breaking Technology Since 2009

Everyone Is Welcome

Saturday Technology Q&A has been a regular Trilogy at Vistancia event since 2009. Originally held in the "Center of Higher Education" room in Kiva, the sessions moved online during COVID and have remained virtual via Zoom—allowing alumni and part-time residents to continue participating.

Each Saturday morning, we send out a reminder email that includes the Zoom link along with a request for topics and questions. For security reasons, the link is not posted publicly on the website.

If you'd like to join, simply email: saturdayqanda@icloud.com

You'll be added to the distribution list and receive the weekly announcement.

Some sessions feature a focused presentation, while others are open Q&A discussions covering current tech issues, questions, or news.

Join us regularly or drop in when you can—everyone is welcome.

Announcements

Regular meetings via Zoom, every Saturday 10:00 AM MST

Areas of Interest

- Computers
- Tablets
- Phones
- Printers, servers, routers
- Operating Systems
- Internet Security
- Home Automation
- Artificial Intelligence
- Drones

Links / Presentations

[RATGDO](#) - Automating a garage door opener in HomeKit

[Technology Q&A's Computer and Internet Survival Guide](#)

[Vistancia-Lone Mountain Roundabout](#)

[Trilogy at Vistancia Weather](#) (Current & Historical)

Inspector Panel:

- Master Page: No Selection
- Page Details: File Name: Home, Include page in navigation menu: checked, Navigation Menu Display Name: Technology Q&A, Language: No Selection, Web Page Title: Saturday Technology Q&A
- Page Layout: Centered Layout, Top Margin: 0, Content Width: 800, Minimum Content Height: 1000, Minimum Header Height: 50, Minimum Footer Height: 100
- Page Background: Color Fill, Shadow: checked, Size: 8
- Browser Background: Color Fill
- Search Engine Optimization: Search Engine Optimization, Site Search

Enable Tailscale Funnel

how do i enable tailscale fun...How to Use Tailscale FunnelMachines - TailscaleMagicDNS · Tailscale Docs

login.tailscale.com / Machines

Bookmarks MenuNetworkFollow UpNewsInvesting NewsSportsTechnology NewsVideoFinancial Accou...ComputerDrone sUASGo ToHam RadioHouseholdMedicalMotorhome LinksChat AI

thatbob@gmail.comFree

MachinesAppsServicesUsersAccess controlsLogsDNSSettingsResource hub

Machines

Manage the devices connected to your tailnet. [Learn more](#)

Filters

Learn more

16 machines

MACHINE	ADDRESSES ⓘ	VERSION	LAST SEEN
bigserver thatbob@gmail.com <div>Shared out +1Expiry disabledFunnel</div> <div>SubnetsExit Node</div>	100.91.174.17 ▾	1.58.2-1 Linux 4.4.302+	● Connected ...
apple-tv thatbob@gmail.com <div></div> <div>SubnetsExit Node</div>	100.91.193.53 ▾	⬆ 1.96.5 tvOS 26.4.0	● Apr 26 ...
mac-mini-m4 thatbob@gmail.com <div>Expiry disabled</div> <div>Exit Node</div>	100.97.158.113 ▾	1.96.5 macOS 26.5.0	● Connected ...
gl-x3000-1 thatbob@gmail.com <div>Expiry disabled</div> <div>Subnets ⓘ</div>	100.94.169.120 ▾	⬆ 1.80.3-1 (OpenWrt) Linux 5.4.211	● Apr 13 ...
pizero1w thatbob@gmail.com <div>Expiry disabled</div> <div>Subnets</div>	100.116.62.49 ▾	⬆ 1.96.4 Linux 6.12.75+rpt-rpi-...	● May 8 ...
pizero2w thatbob@gmail.com <div>Expiry disabled</div> <div>Subnets</div>	100.124.170.97 ▾	⬆ 1.92.1 Linux 6.12.47+rpt-rpi...	● Dec 17, 2025 ...
al7mh-ipad-pro thatbob@gmail.com <div>Expiry disabled</div>	100.106.123.99 ▾	1.98.2 iOS 26.5.0	● Connected ...

Welcome! See what's possible

What do you want to do?

Set up my personal homelab ▾

Try these solution guides for popular at-home use cases:

Access NAS, media servers, or file shares remotely >

Remote access to devices that can't run Tailscale (printers, cameras) >

Share a private game server (e.g. Minecraft) with friends >

Not seeing what you want? Get started with this [10-minute video](#)

Dismiss

Enable Tailscale Funnel on Server

```
robertmoore — ssh bobmoore1954@192.168.1.42 -p 22222 — 82x32

[

bobmoore1954@BigServer:~$ tailscale funnel status

# Funnel on:
#   - https://bigserver.tail60def.ts.net

https://bigserver.tail60def.ts.net (Funnel on)
[REDACTED]
|-- /thatbob          proxy http://127.0.0.1:8081
|-- /saturdayqanda    proxy http://127.0.0.1:8086
[REDACTED]

bobmoore1954@BigServer:~$
```

Configure Web Station on Server

Edit package server portal

X

Service:

saturdayqanda

Status:

Normal

Portal type:

Port-based

Port:

☒ HTTP

8086

☐ HTTPS

HTTPS settings:

☐ HSTS

Access control profile:

Not configured

i

Error page profile:

Default error page profile

i

☐ Enable access logs

i

☐ Create shortcut on main menu

Name :

Cancel

Apply

Edit task

X

General

Task Settings

Notification

☐ Send run details by email

Email:

☐ Send run details only when the script terminates abnormally

Run command

User-defined script

i

```
/var/packages/Tailscale/target/bin/tailscale funnel --bg --set-path /saturdayqanda http://127.0.0.1:8086
```

Note: For more information about scripts, refer to [this article](#).

Cancel

OK

Register Domain Name and Forward to Tailscale URL

Forwarding

saturdaytechnology.com

https://



bigserver.tail60def.ts.net/saturdayqanda/

Forward Type 

☒ Permanent (301)

☐ Temporary (302)

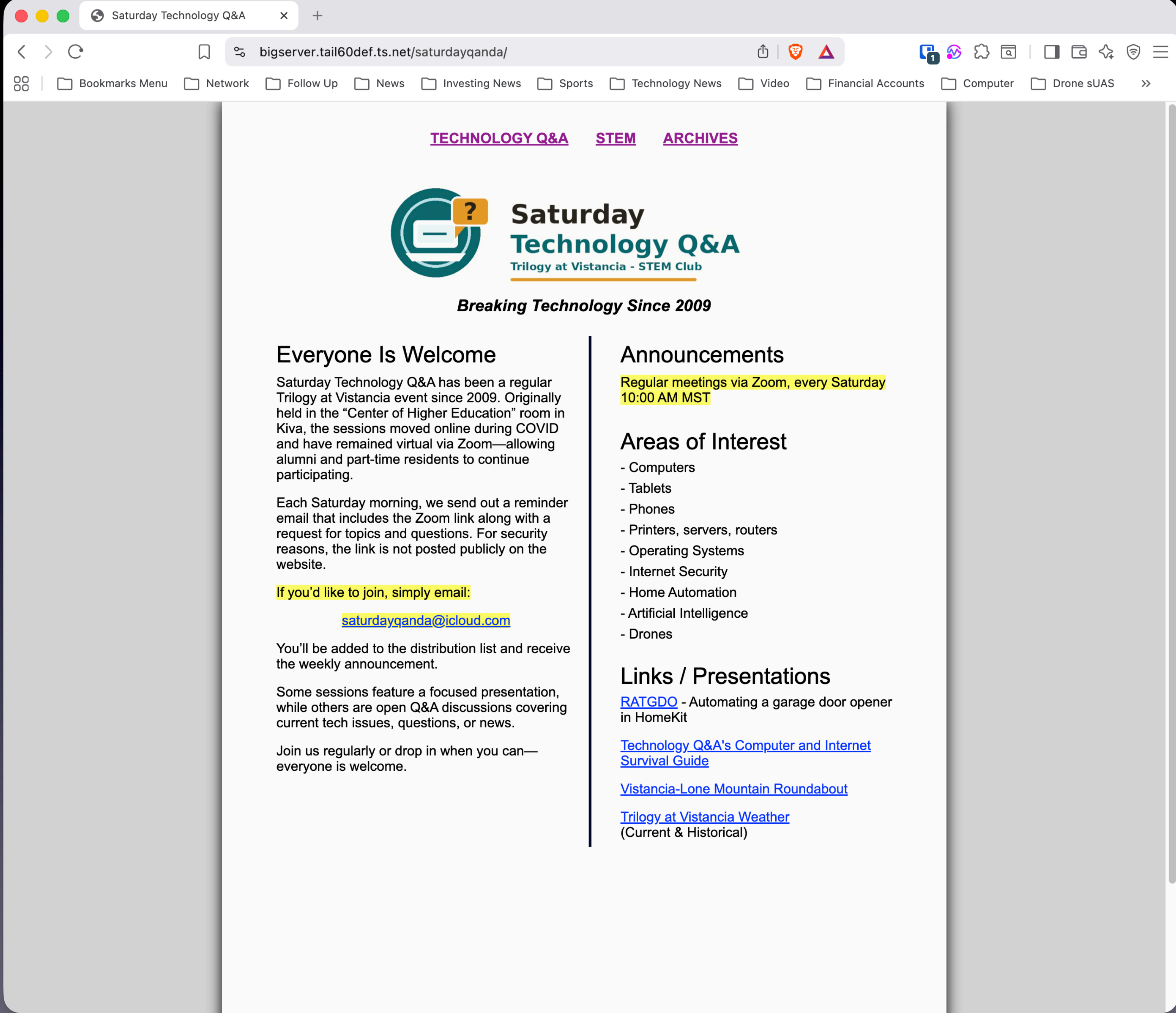
☐ Forward with masking

What are 301 and 302 redirect pages? [Learn More](#)

 We'll automatically update your domain to GoDaddy default nameservers if it's not currently using our nameservers.

Save

Cancel



[TECHNOLOGY Q&A](#) [STEM](#) [ARCHIVES](#)



Saturday Technology Q&A

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(Current & Historical)



Professional Retirees Since 2011



We discovered Viking River Cruises and absolutely love them. We went on our first before Covid and have been on 3 more since. Our 5th is scheduled for October 2026. We're running out of rivers.

[2025 Rhine and Rhone Rivers](#)

[2024 Capitals of Eastern Europe](#)

[2023 Christmas Markets](#)

[2019 Grand European](#)

Re-encode Video Files for Streaming

2025 Motohrome Trip.m4v

Open Source

Add To Queue

Start

Pause

Presets

Preview

Queue

Activity

Source: 2025 Motohrome Trip, 3840x2160, 30 FPS, SDR (8-bit 4:2:0, 1-1-1), 1 audio track

Title: 1 - 00:09:08 - 2025 Motohrome Trip Angle: 1 Range: Chapters 1 - 1 Duration: 00:09:08

Preset: Web at 10 Mbs 4K (Modified) Reload Save New Preset...

Summary Dimensions Filters Video Audio Subtitles Chapters

Format: MP4

☒ Passthru Common Metadata

☒ Web Optimized

☐ Align A/V Start

☐ iPod 5G Support

Tracks: H.264 (x264), 30 FPS PFR

0: AAC (CoreAudio), Stereo

0: AC3, Stereo

Filters: Comb Detect, Decomb

Size: 3840x2160



Save As: 2025 Motohrome Trip-1.mp4

To: Drive (Sync) Web Pages Files to Edit Browse...

2025 Motohrome Trip.m4v

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Summary Dimensions Filters Video Audio Subtitles Chapters

Video Encoder: H.264 (x264)

Quality: Constant Quality RF 22

Framerate (FPS): 30

☒ Peak Framerate (VFR)

☐ Constant Framerate

Color Range: Limited

Encoder Options:

Preset: medium

Tune: none

Profile: high

Level: 4.0

Additional Options:

x264 Unparse: level=4.0:ref=1:bframes=0:vbv-buftype=31250:vbv-maxrate=25000

Average Bitrate (kbps): 10000

☒ Multi-pass encoding

☐ Turbo analysis pass

Save As: 2025 Motohrome Trip-1.mp4

To: Drive (Sync) Web Pages Files to Edit Browse...