



**AUGUST 6-7, 2025**  
MANDALAY BAY / LAS VEGAS

# **Ghost Calls: Abusing Web Conferencing for Covert Command & Control**

Adam Crosser



Adam Crosser



Praetorian

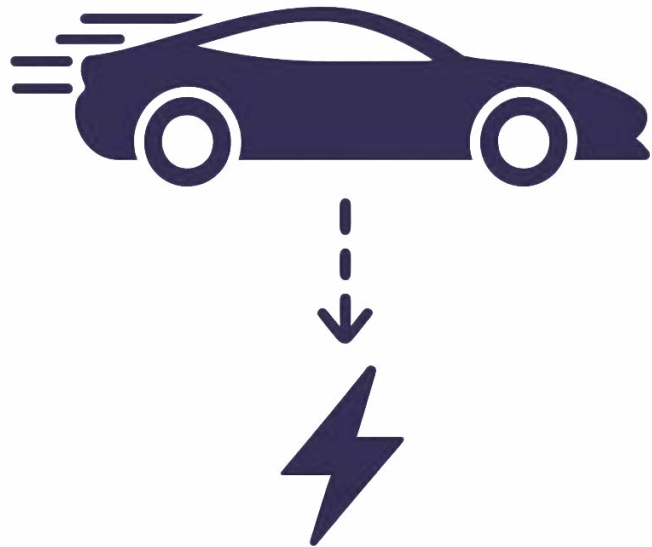
LinkedIn: <https://www.linkedin.com/in/adam-crosser-366263265>

X: <https://x.com/UNC1739>

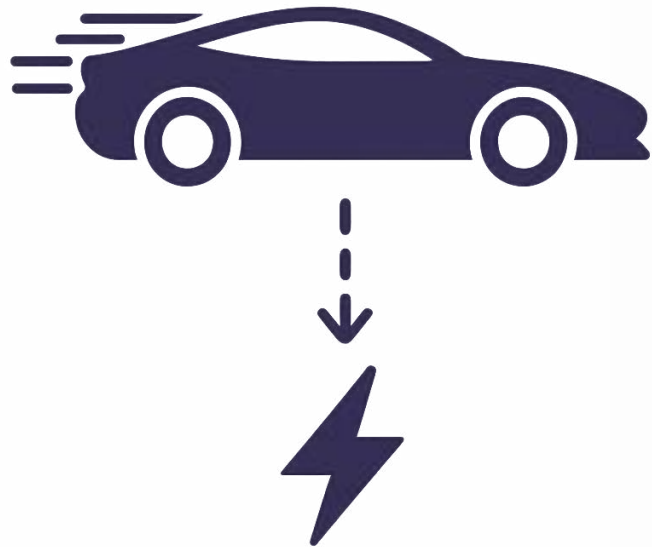
# Types of Command-and-Control Channels 3



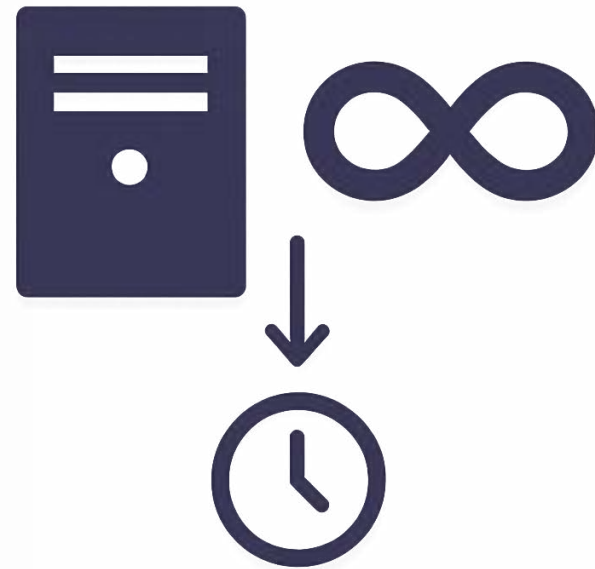
## SHORT



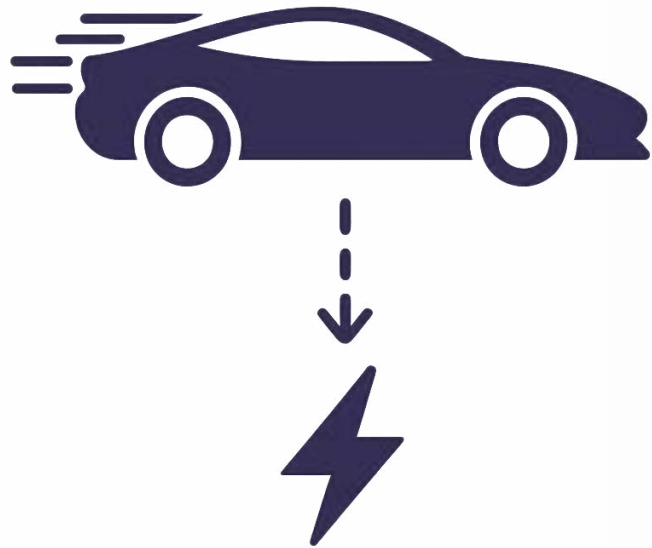
**SHORT**



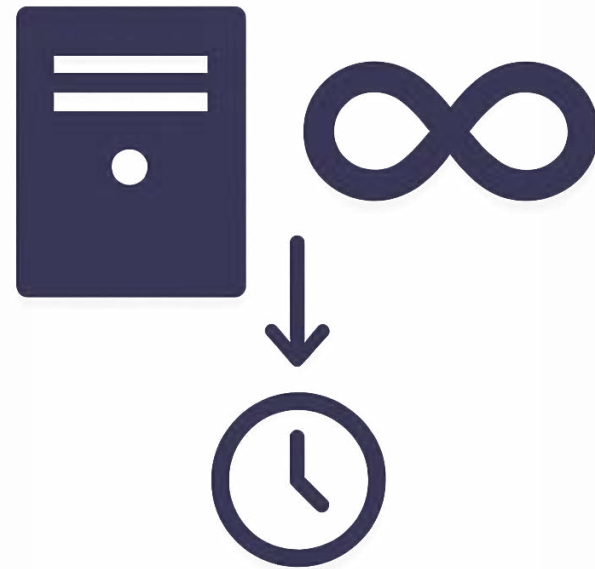
**LONG**



**SHORT**



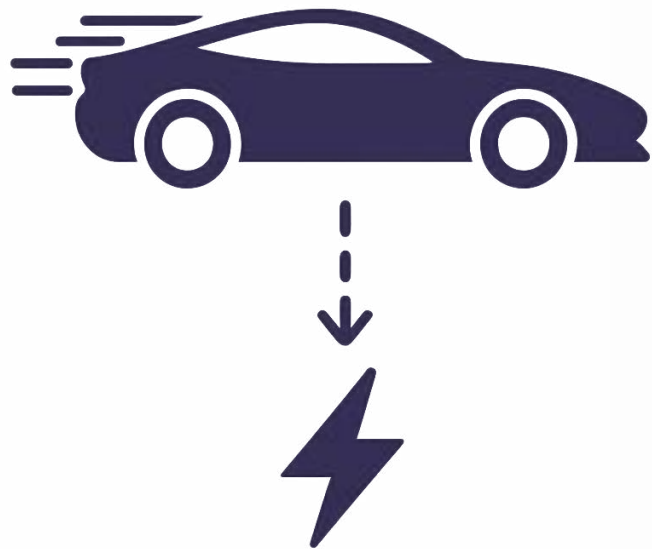
**LONG**



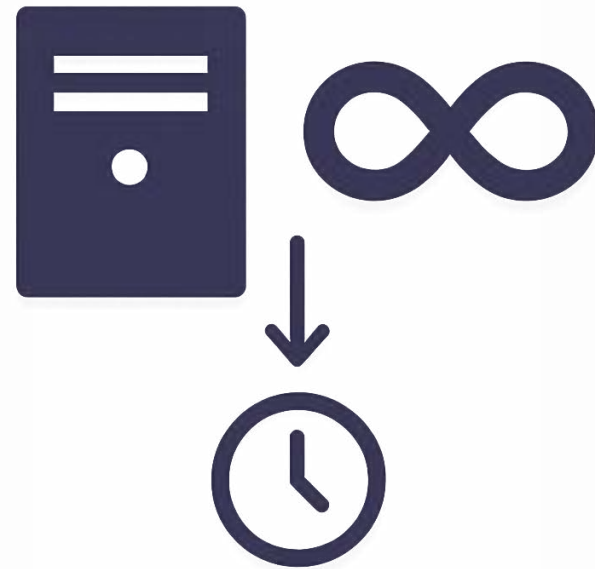
**BACKUP**



**SHORT**



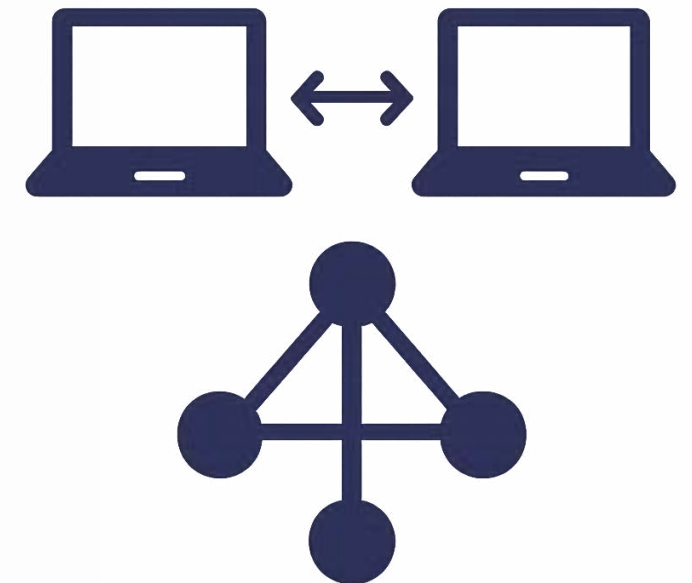
**LONG**



**BACKUP**



**P2P**





# Brainstorming Solutions





## LATENCY



**LATENCY**

**THROUGHPUT**





**LATENCY**



**THROUGHPUT**



**REACH**



**LATENCY**



**THROUGHPUT**



**REACH**



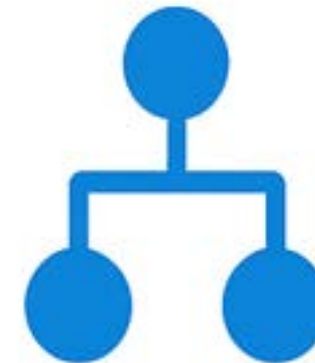
**TRUST**



- Focused on services egressing from user devices
- Must be broadly used across enterprise roles
- Applicable to non-technical departments (e.g., HR, sales)
- Protocols favored by technical users were excluded
- Thought through common workflows and use-cases



**HTTP**



**DNS**



**SMB**



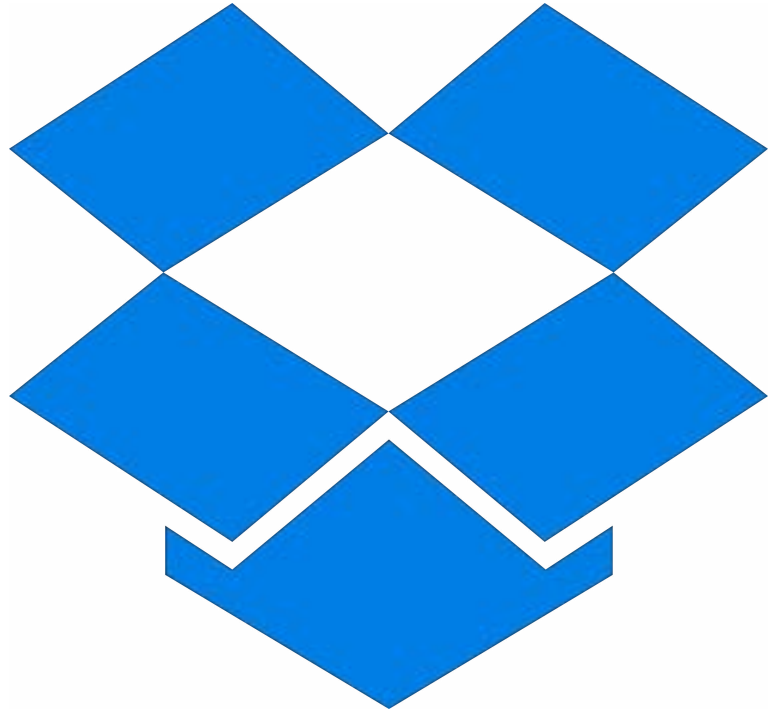
**RDP**





**DNS over HTTPS**

- ✓ **LATENCY**
- ✗ **THROUGHPUT**
- **REACH**
- ✓ **TRUST**



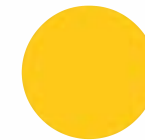
**LATENCY**



**THROUGHPUT**



**REACH**



**TRUST**



**LATENCY**



**THROUGHPUT**

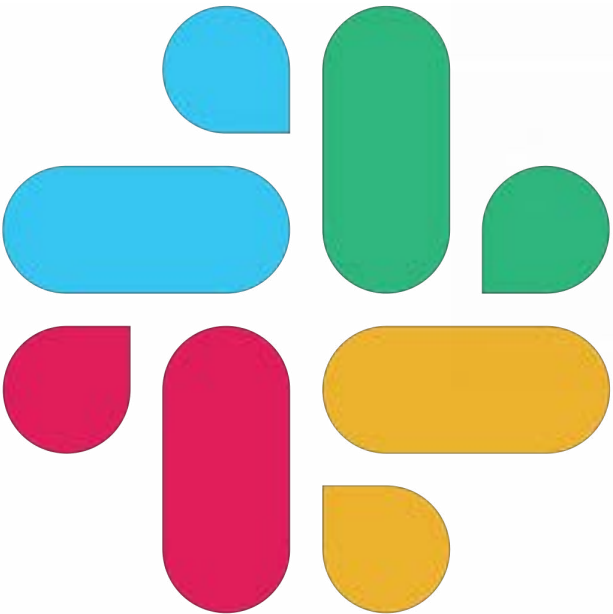


**REACH**



**TRUST**





- **LATENCY**
- ✗ **THROUGHPUT**
- ✓ **REACH**
- ✓ **TRUST**



- ✓ **LATENCY**
- ✓ **THROUGHPUT**
- ✓ **REACH**
- ✓ **TRUST**

## Configure split-tunnel VPN

We recommend that you provide an alternate path for Teams traffic that bypasses the virtual private network (VPN), commonly known as **split-tunnel VPN**. Split tunneling means that traffic for Microsoft 365 or Office 365 doesn't go through the VPN but instead goes directly to Microsoft 365 or Office 365. Bypassing your VPN has a positive impact on Teams quality, and it reduces load from the VPN devices and the organization's network. To implement a split-tunnel VPN, work with your VPN vendor.

Other reasons why we recommend bypassing the VPN:

- VPNs are typically not designed or configured to support real-time media.
- Some VPNs might also not support UDP (which is required for Teams).
- VPNs also introduce an extra layer of encryption on top of media traffic that's already encrypted.
- Connectivity to Teams might not be efficient due to hair-pinning traffic through a VPN device.
- Traffic might be routed to a service front door location that is further away from the end user, introducing extra latency and jitter.



<https://learn.microsoft.com/en-us/microsoftteams/prepare-network>



## Not using a proxy server is recommended



Many organizations utilize proxy servers today within their network. As Microsoft Teams and Skype for Business traffic is already encrypted, passing this traffic through a proxy server doesn't make the traffic any more secure.

Proxies can cause issues too. Performance-related problems can be introduced to the environment through latency and packet loss by attempting to route Teams traffic through a proxy server. This can be caused by the proxy being unable to handle the amount of traffic passing through it, or by incorrectly routing the traffic to a Microsoft network service front door location that is further away from the end user.

Issues such as these will result in a negative experience within Teams and Skype for Business.

We recommend that Teams traffic bypasses proxy server infrastructure, including SSL inspection. You may wish to achieve this by putting Teams Phones and Meeting Room devices on their own VLAN and providing them with Internet access.

<https://learn.microsoft.com/en-us/microsoftteams/proxy-servers-for-skype-for-business-online>



# VPN Split Tunneling Recommendations



English (Original)



2025-03-06 16:55:57



Copy Permalink

Virtual Private Network (VPN) services are crucial to securing data accessed by users working from remote locations.

One of the biggest challenges Zoom customers experience is related to not allowing our real-time media services over UDP 8801-8810 to split tunnel. Not allowing split tunneling for UDP 8801-8810 and TCP 443 to Zoom resources, does cause customers to experience significant additional load on their corporate internet connections due to the Zoom traffic having to enter the corporate network, only to exit again to the Zoom cloud for real-time meeting termination. This also places a significant amount of burden on VPN concentrators and in many cases can cause overloading and congestion of this infrastructure.

[https://support.zoom.com/hc/en/article?id=zm\\_kb&sysparm\\_article=KB0065998](https://support.zoom.com/hc/en/article?id=zm_kb&sysparm_article=KB0065998)



## Proxy server

We support HTTPS/SSL proxy servers via port 443 for Zoom traffic.

**Note:** This does not apply to the Zoom Phone service.

Zoom automatically detects your proxy settings. In some instances, you may be prompted to enter the proxy username/password.

**Note:** We recommend allowing **zoom.us** and **\*.zoom.us** from proxy or SSL inspection.

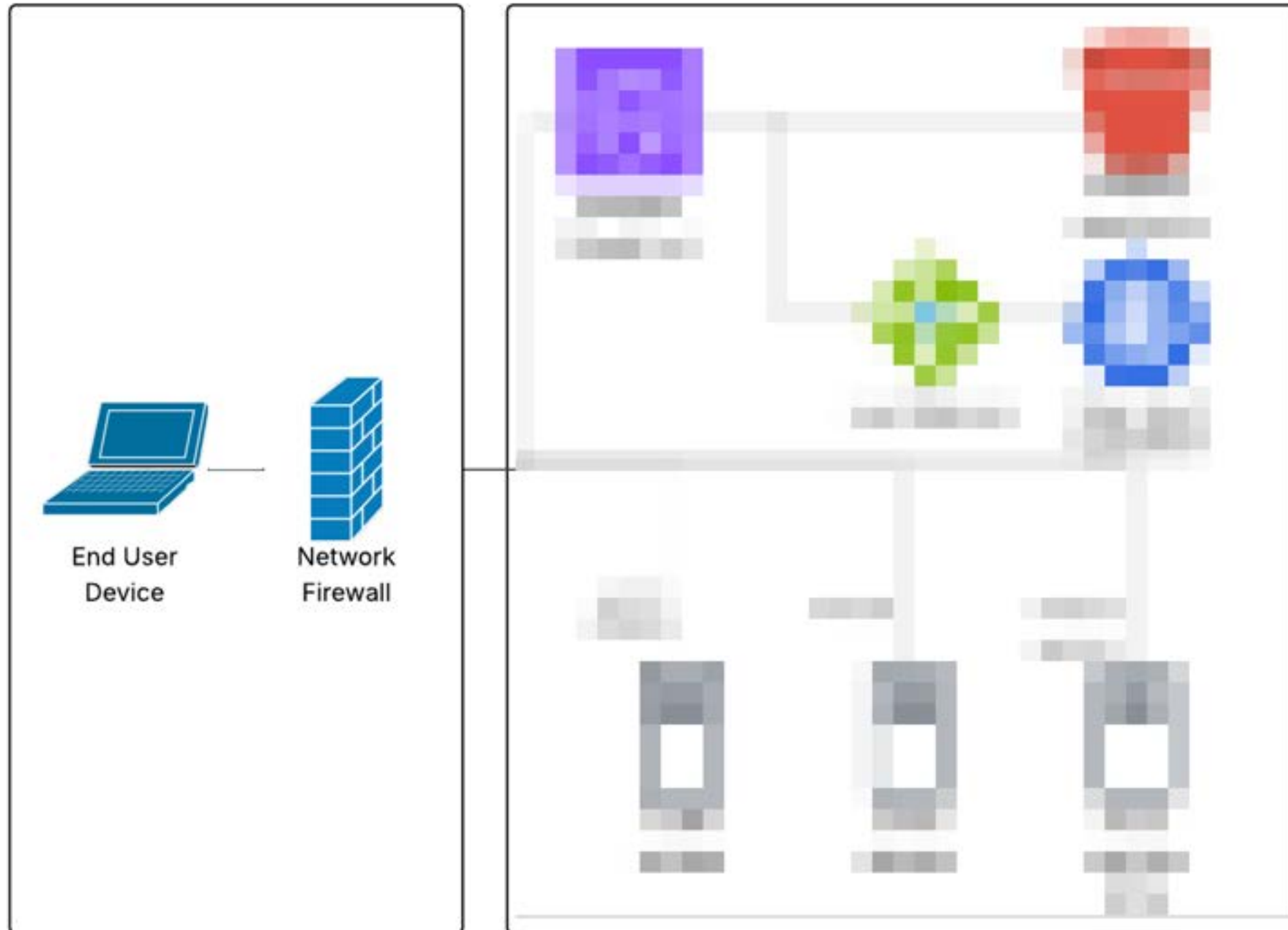
[https://support.zoom.com/hc/en/article?id=zm\\_kb&sysparm\\_article=KB0060548](https://support.zoom.com/hc/en/article?id=zm_kb&sysparm_article=KB0060548)



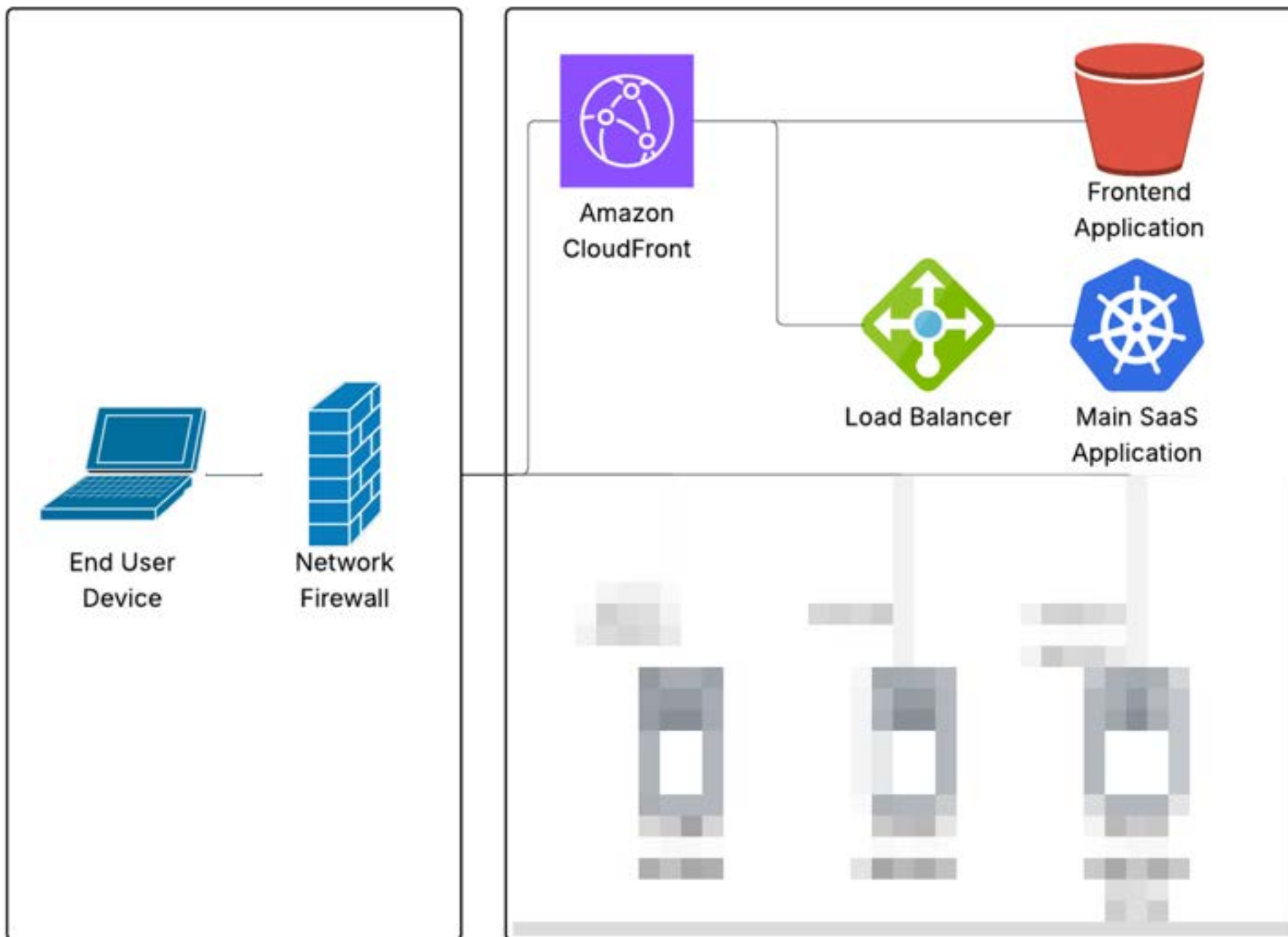
- Providers aren't being malicious
- Performance is the main design driver
- Latency must be minimized for app reliability
- These configs are often intentional not careless
- Inspection or routing can overwhelm systems

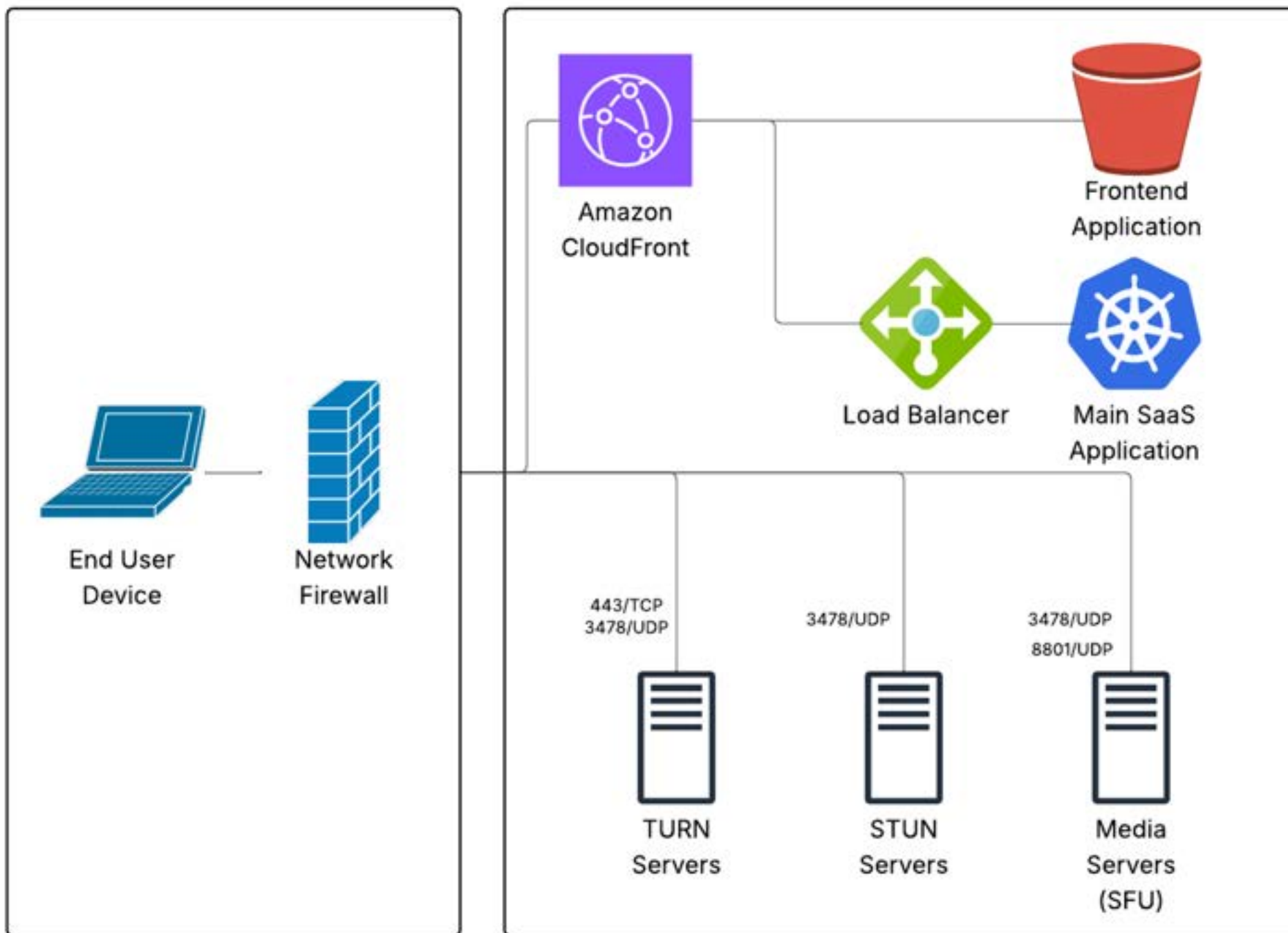


# How does it Work?

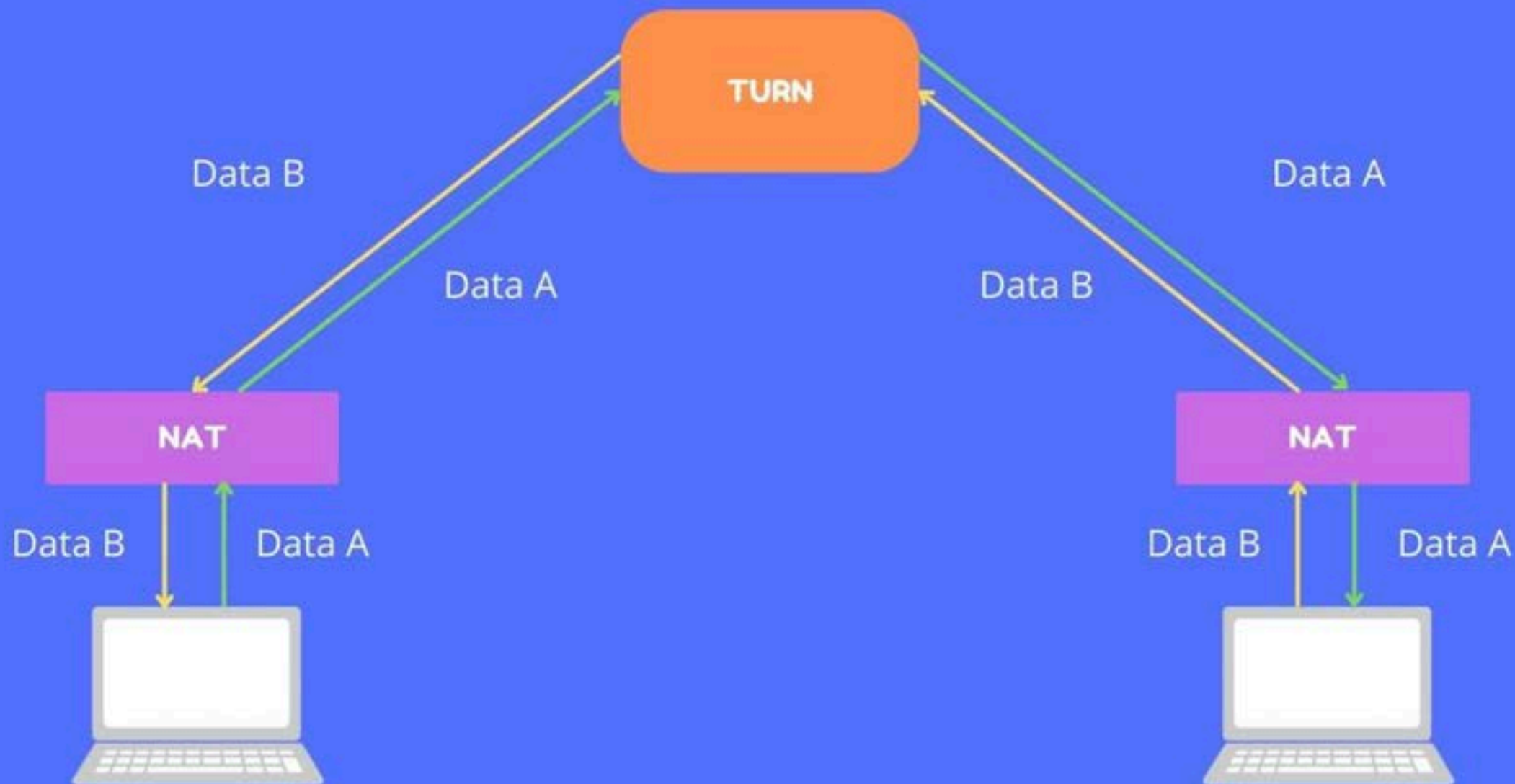








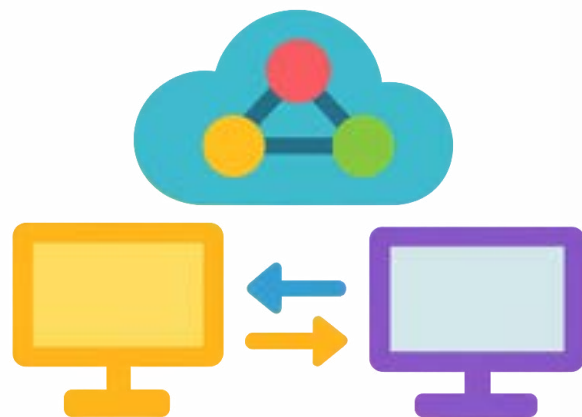
# What is TURN?



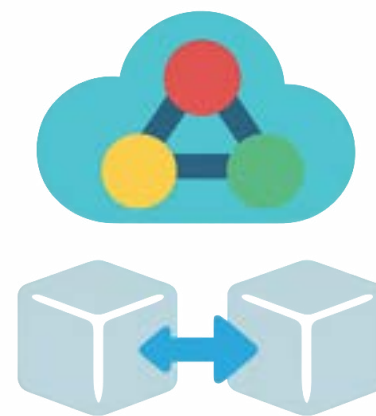




**DTLS**



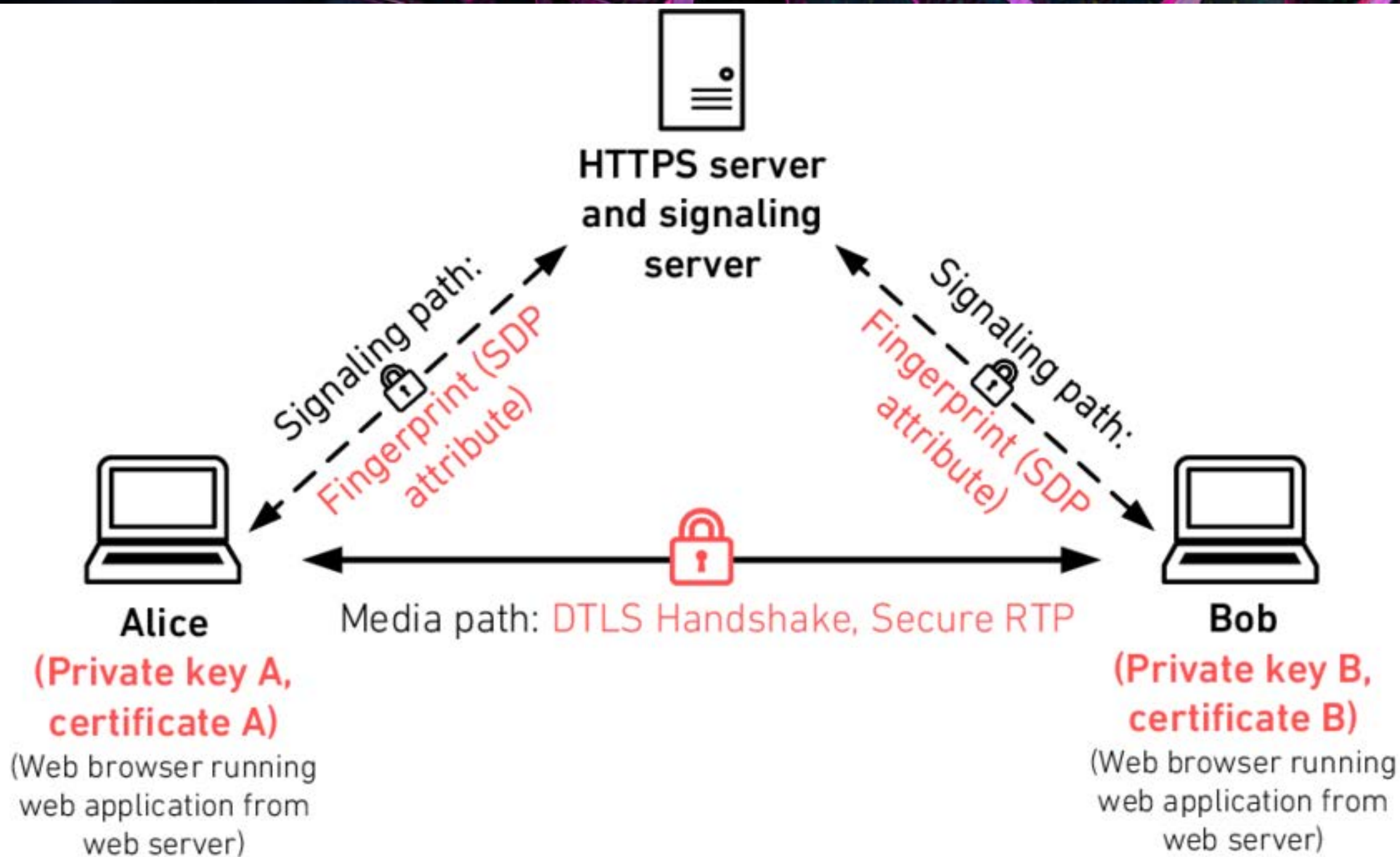
**SCTP**



**ICE**



**SRTP**





```
> Internet Protocol Version 4, Src: 192.168.1.41, Dst: 170.114.164.95
> User Datagram Protocol, Src Port: 61029, Dst Port: 8801
✓ Zoom SFU Encapsulation
  Type: 5
  Sequence number: 1278
  Direction: 0 (to Zoom)
✓ Zoom Media Encapsulation
  Type: 16 (Video)
  Sequence number: 1261
  Timestamp: 106179922
  Frame number: 57
  Packets in frame: 2
✓ Real-Time Transport Protocol
  > [Stream setup by DECODE AS (frame 28373)]
  10.. .... = Version: RFC 1889 Version (2)
  ..0. .... = Padding: False
  ...1 .... = Extension: True
  .... 0000 = Contributing source identifiers count: 0
  1... .... = Marker: True
  Payload type: DynamicRTP-Type-98 (98)
  Sequence number: 24484
  [Extended sequence number: 90020]
  Timestamp: 894589134
  [Extended timestamp: 5189556430]
  Synchronization Source identifier: 0x01000401 (16778241)
  Defined by profile: RFC 5285 One-Byte Header Extensions (0xbede)
  Extension length: 5
  > Header extensions
  Payload [...]: 1c40736b27a5415cf9715dd657876f8c59f14a70c4c6878987c74f26b8123f633690b6ef5ccee1e88f5932228eadc93eefe91c9f2:
```



- > Internet Protocol Version 4, Src: 192.168.1.41, Dst: 170.114.164.95
- > User Datagram Protocol, Src Port: 61029, Dst Port: 8801
- ✓ Zoom SFU Encapsulation

- > User Datagram Protocol, Src Port: 61029, Dst Port: 8801
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  - Type: 5
  - Sequence number: 1278
  - Direction: 0 (to Zoom)
- ✓ Zoom Media Encapsulation
  - Type: 16 (Video)
  - Sequence number: 1261
  - Timestamp: 106179922
  - Frame number: 57
  - Packets in frame: 2
- ✓ Real-Time Transport Protocol
  - > [Stream setup by DECODE AS (frame 28373)]

Enabling Passive Measurement of Zoom  
Performance in Production Networks



<https://dl.acm.org/doi/pdf/10.1145/3517745.3561414>

Custom Wireshark Analyzer for Zoom  
Desktop Media Traffic



<https://github.com/Princeton-Cabernet/zoom-analysis>



```
> Frame 4296: 160 bytes on wire (1280 bits), 160 bytes captured (1280 bits)
> Ethernet II, Src: Apple_d5:f9:5f (14:7d:da:d5:f9:5f), Dst: zte_4c:ac:24 (20:08:89:4c:ac:24)
> Internet Protocol Version 4, Src: 192.168.1.43, Dst: 74.125.250.251
> User Datagram Protocol, Src Port: 63070, Dst Port: 3478
✓ Real-Time Transport Protocol
  > [Stream setup by DTLS-SRTP (frame 2963)]
    10.. .... = Version: RFC 1889 Version (2)
    ..0. .... = Padding: False
    ...1 .... = Extension: True
    .... 0000 = Contributing source identifiers count: 0
    0... .... = Marker: False
    Payload type: Unassigned (63)
    Sequence number: 24725
    [Extended sequence number: 90261]
    Timestamp: 345165098
    [Extended timestamp: 4640132394]
    Synchronization Source identifier: 0xa11f30c7 (2703175879)
    Defined by profile: RFC 5285 One-Byte Header Extensions (0xbede)
    Extension length: 3
  ✓ Header extensions
    > RFC 5285 Header Extension (One-Byte Header)
    > RFC 5285 Header Extension (One-Byte Header)
    > RFC 5285 Header Extension (One-Byte Header)
    SRTP Encrypted Payload: 56046ee649b15872c7d5a1f0b3604bf7ee71d42d8d55062dc3c6a639ae063054d04ea8469f2495cf5c34
    SRTP Auth Tag: 175d3f6ef64838a438b484a7dee2dbbc
```

- > Internet Protocol Version 4, Src: 192.168.1.43, Dst: 74.125.250.251
- > User Datagram Protocol, Src Port: 63070, Dst Port: 3478
- ✓ Real-Time Transport Protocol
  - > [Stream setup by DTLS-SRTP (frame 2963)]
  - 10.. .... = Version: RFC 1889 Version (2)
  - ..0. .... = Padding: False
  - ...1 .... = Extension: True
  - .... 0000 = Contributing source identifiers count: 0









Zone Controller  
Primary



MultiMedia Router



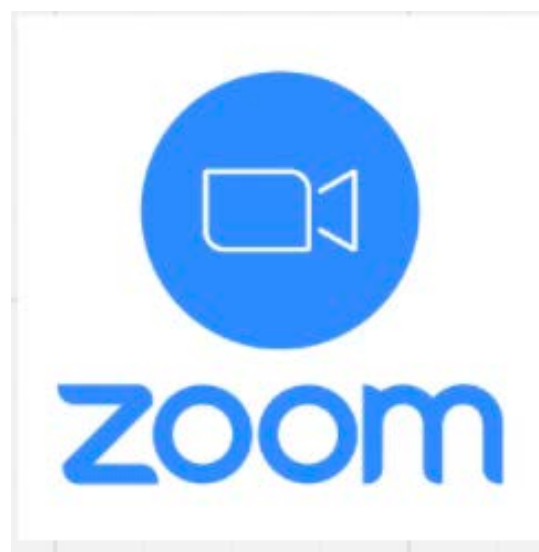
Custom Protocol over TLS on 443/TCP



Zone Controller  
Primary



MultiMedia Router



Custom Protocol  TLS on 443/TCP

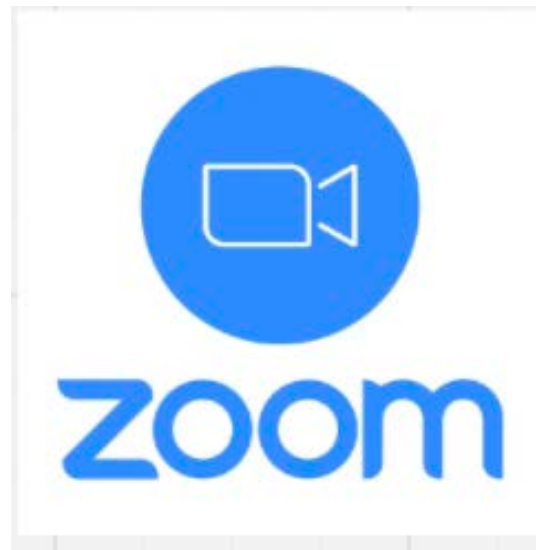


Zone Controller  
Primary



MultiMedia Router





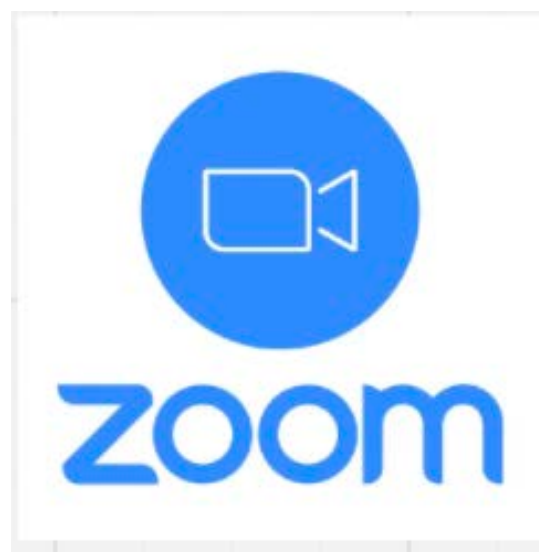
WebSockets over HTTPS on 443/TCP



Zone Controller  
Primary



MultiMedia Router



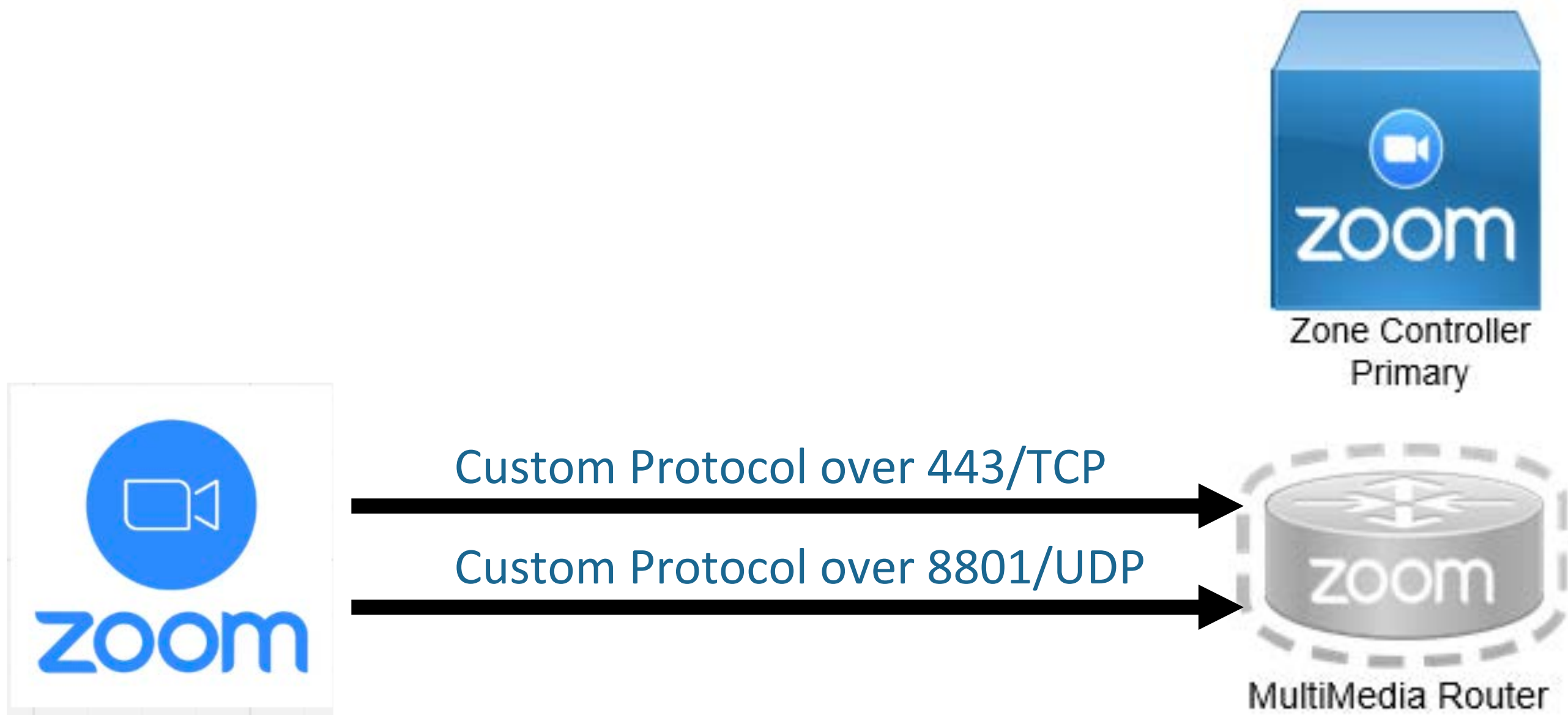
WebSockets over HTTPS on 443/TCP



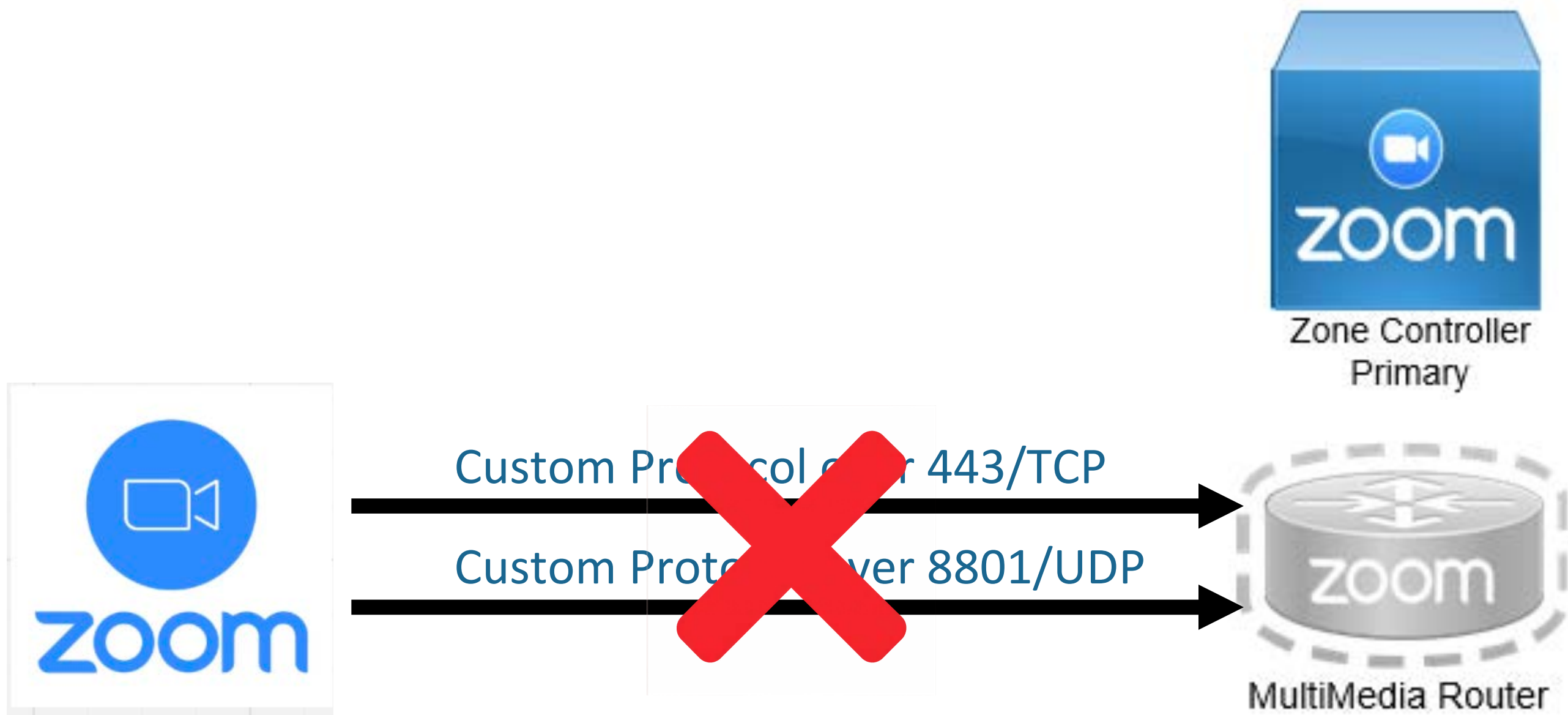
Zone Controller  
Primary



MultiMedia Router



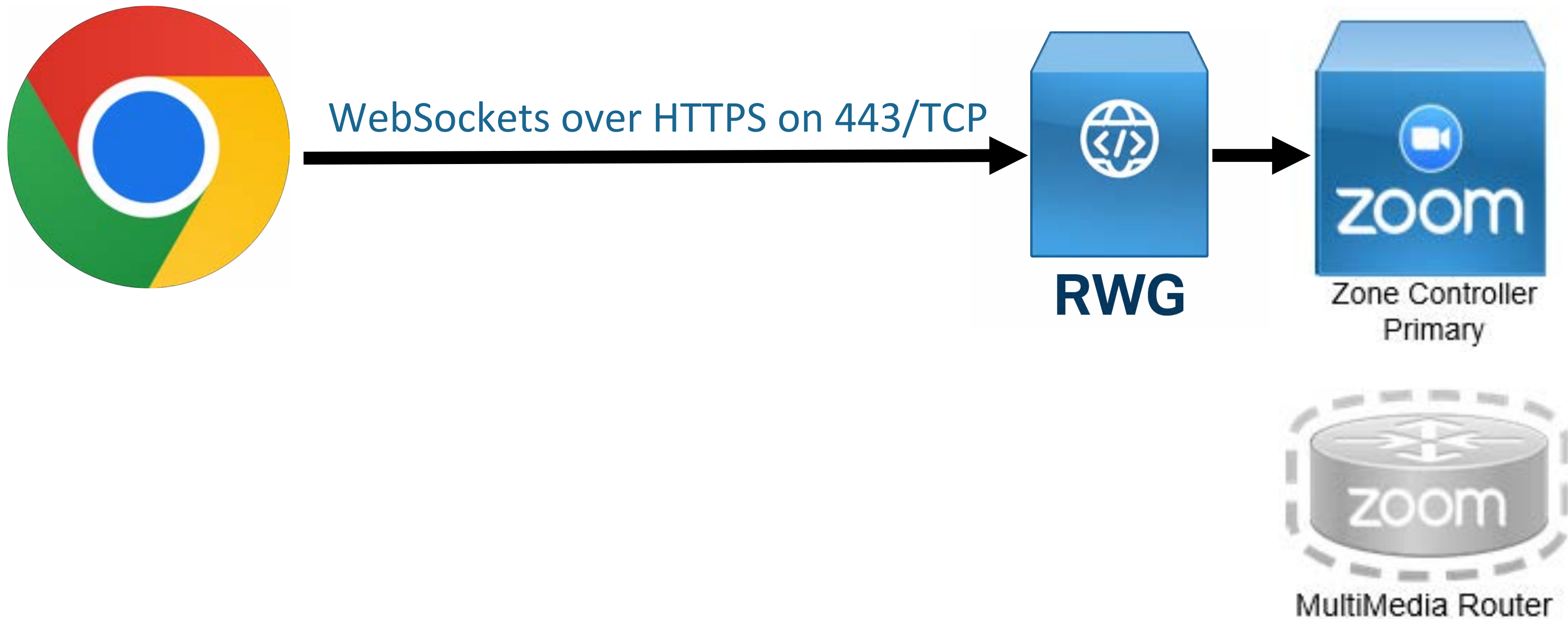


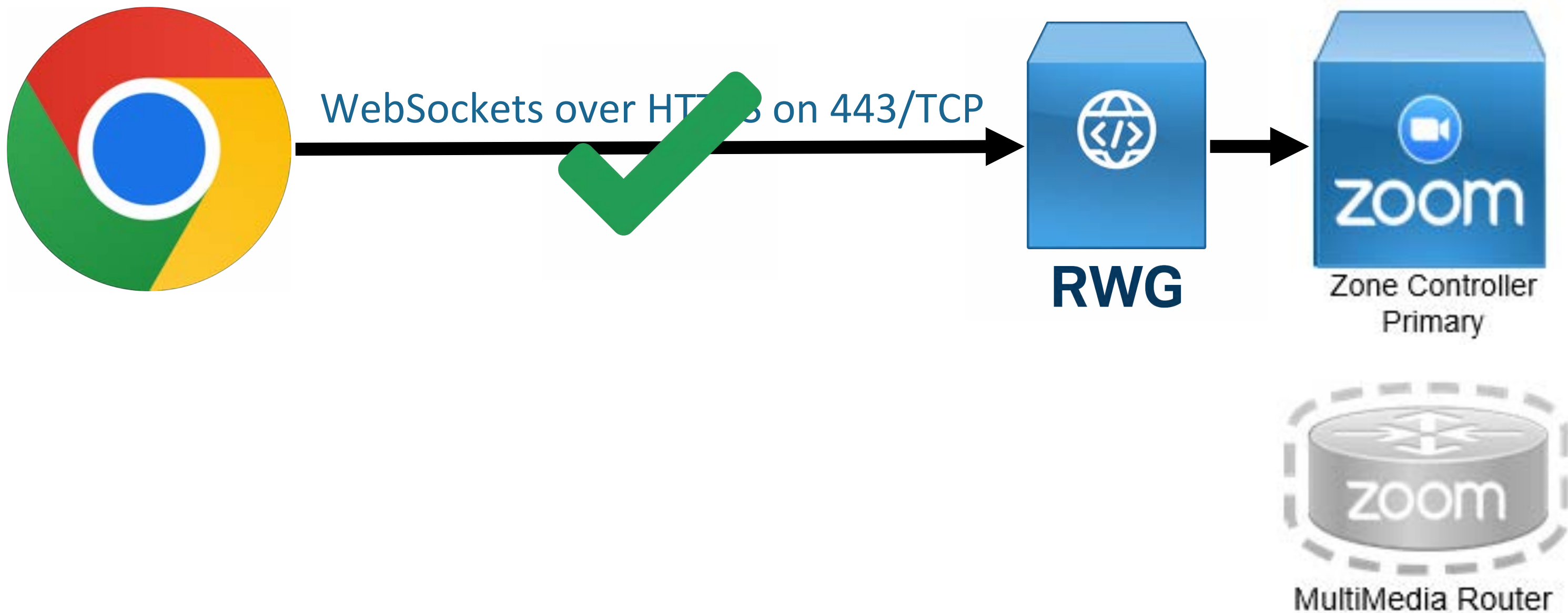


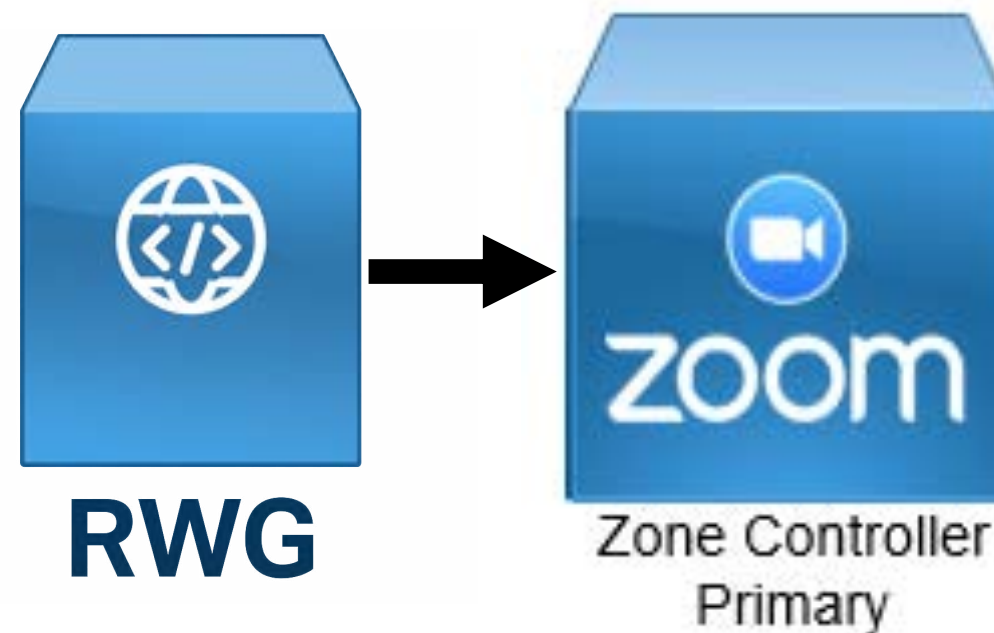




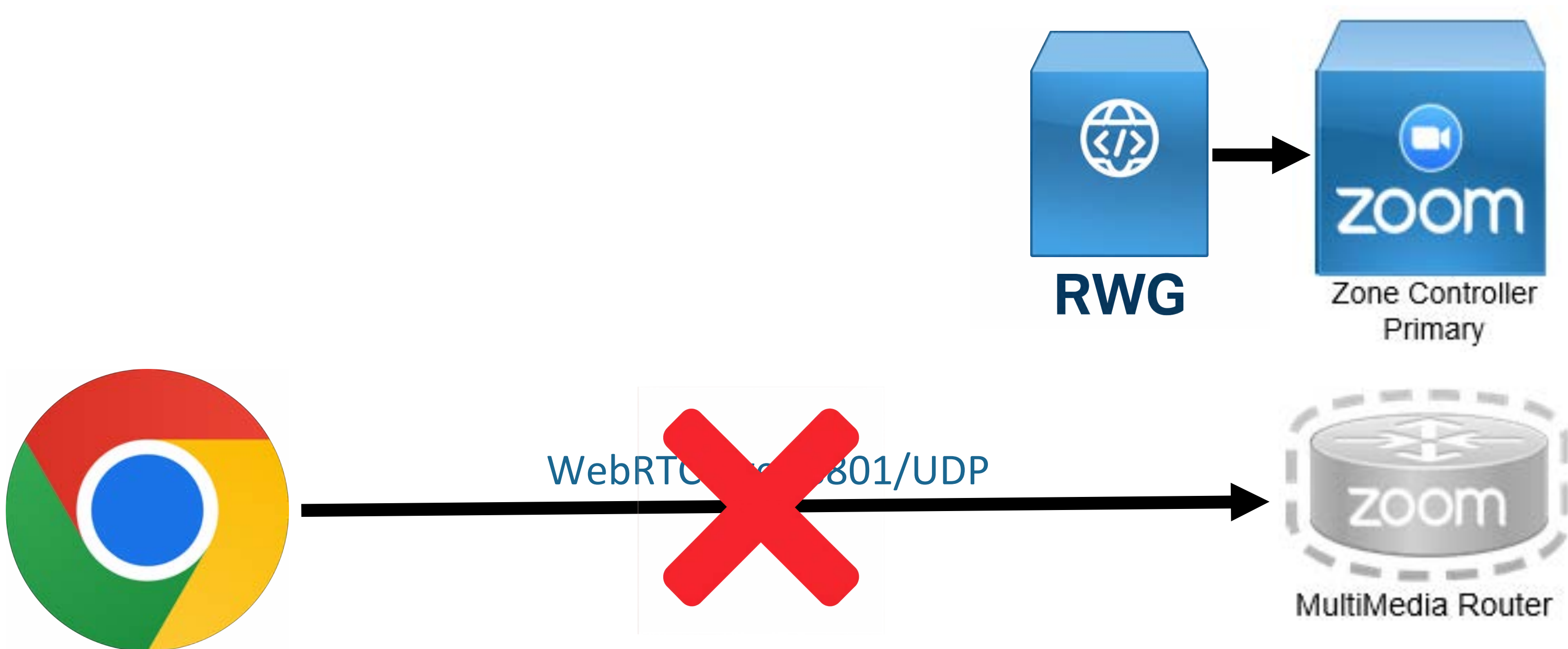


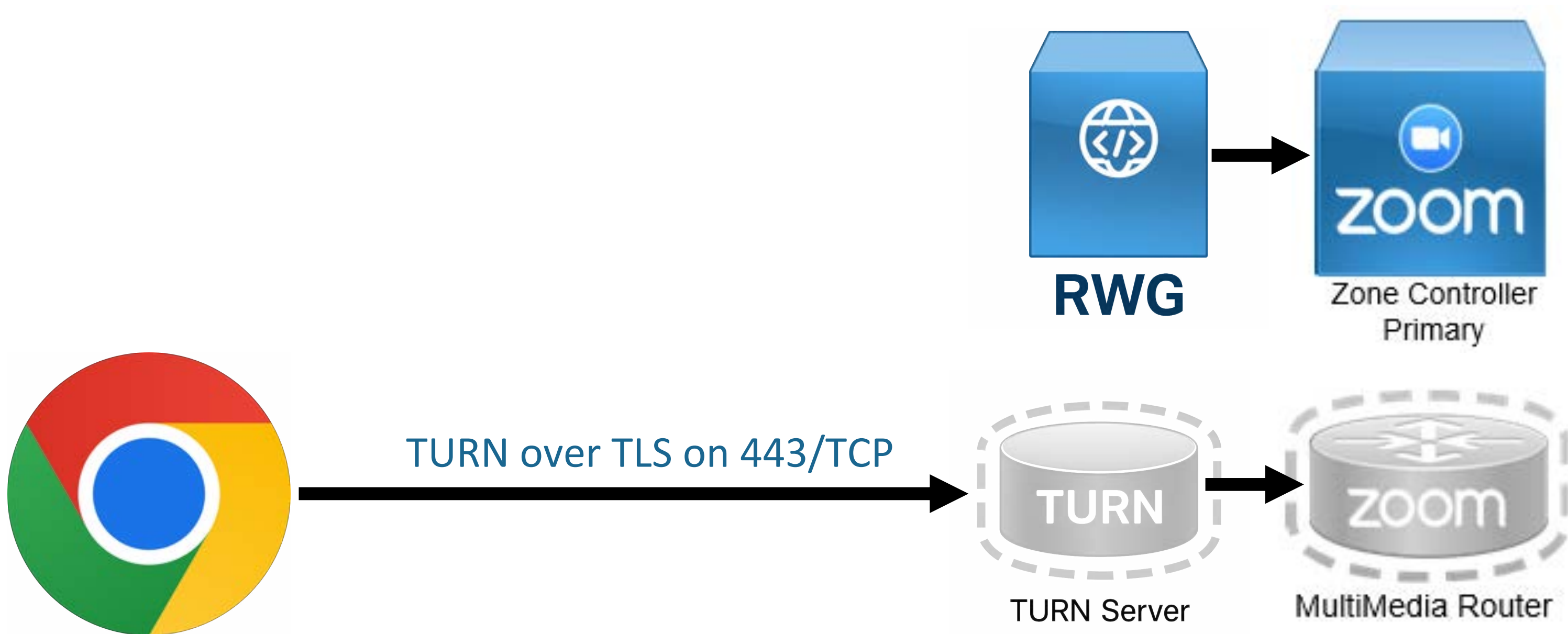


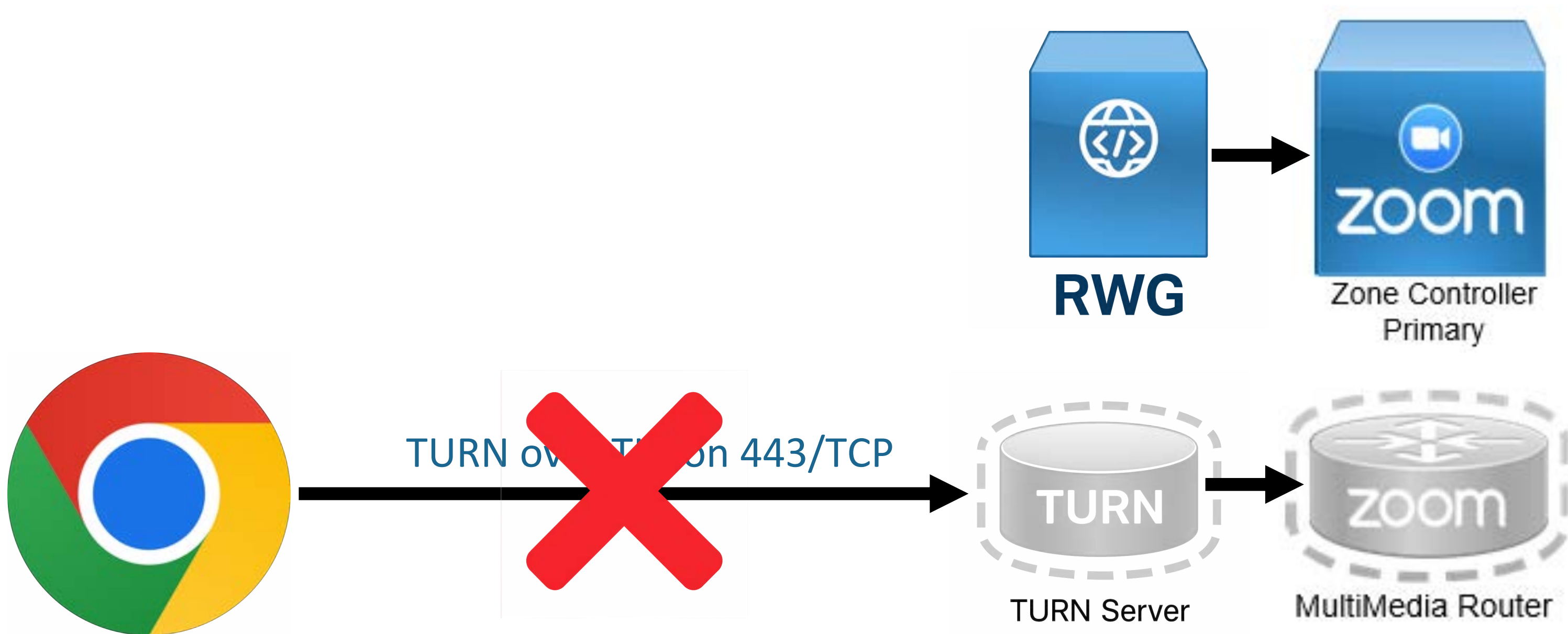




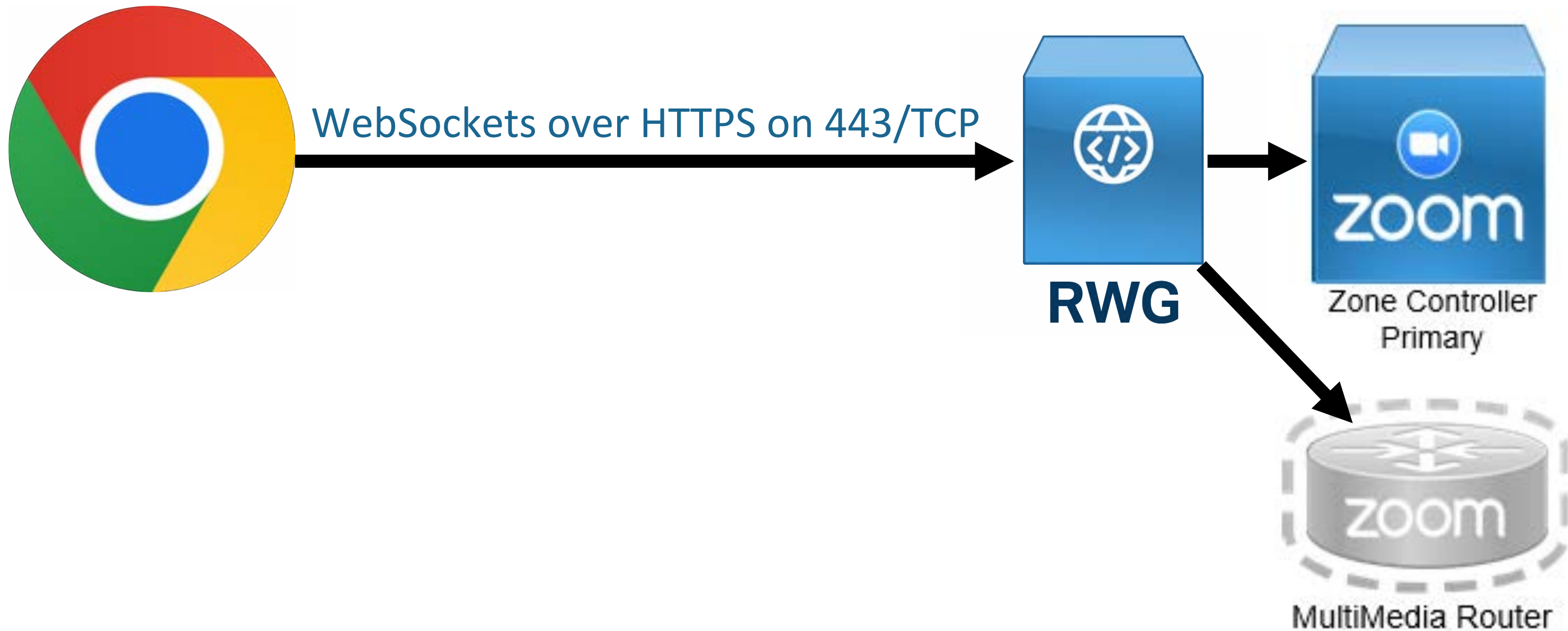


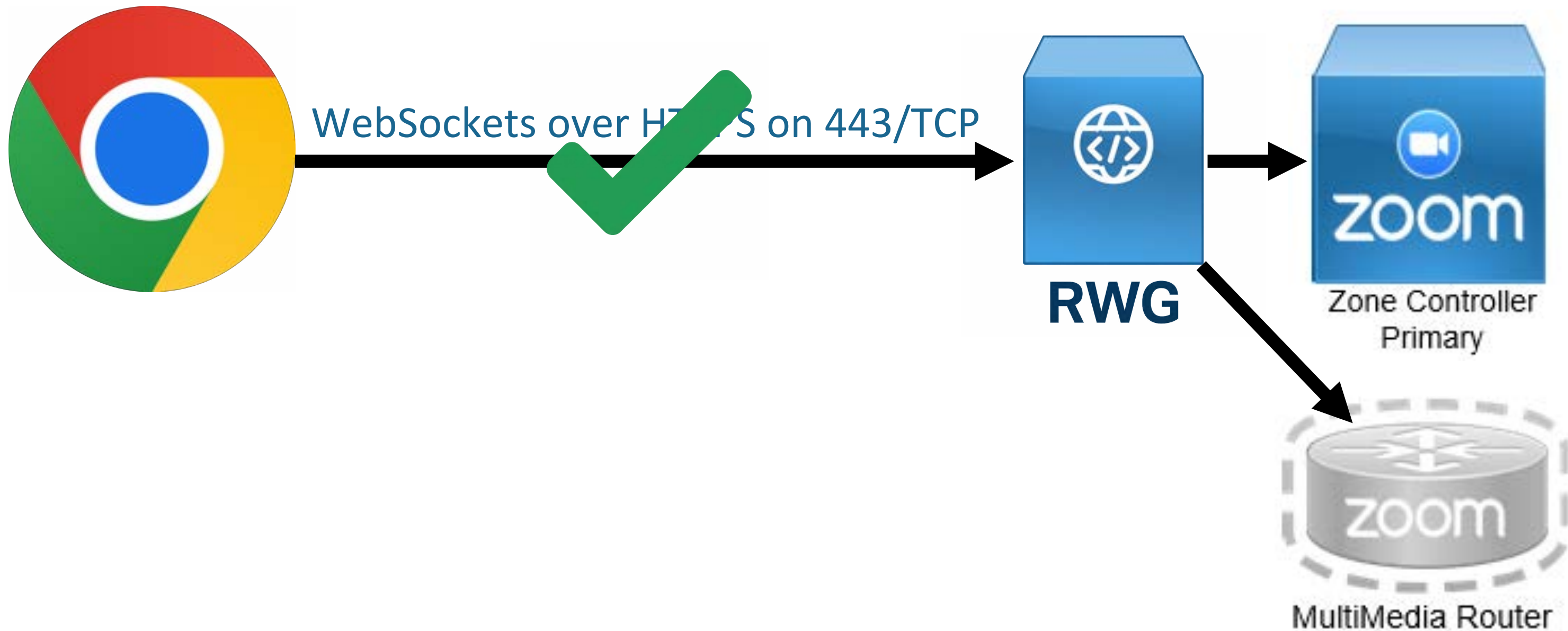














**AUDIO  
ONLY**





# Developing the Capability

Videoconferencing Software	Market Share
Zoom	55.91%
Microsoft Teams	32.29%
GoToMeeting	8.81%
Google Meet	5.52%
WebEx	7.61%
RingCentral	5.31%
FaceTime	2.16%
Skype	1.41%
Facebook Messenger	0.75%
Bluejeans	0.31%

Source: [Statista](#)



Videoconferencing Software	Market Share
Zoom	55.91%
Microsoft Teams	32.29%
GoToMeeting	8.81%
Google Meet	5.52%





```
{
  "body":{
    "ABtoken":"3C45E3C9-7F73-2CD4-0C2A-61B0665E2AA7",
    "conID":"81423846-9F1F-D9EF-72D7-1265B18A9BBA",
    "confID":"0C71C7D6-C040-4363-94C1-3175DA4475F7",
    "e2eEncrypt":true,
    "elapsed":0,
    "encType":2,
    "hugeB0":true,
    "mediasdkConfig":{
      "iceServers":[
        {
          "credential":"rlYnbcRe9d5IqRiU/Ukst9QY0C2lidMWRmUQoWVvFoc=",
          "urls":"turns:turnsg02.cloud.zoom.us:443?transport=tcp",
          "username":"81423846-9F1F-D9EF-72D7-1265B18A9BBA:1741859664289"
        },
        {
          "credential":"y7rK3BSihbZ33NQeVtUsgynrdvJZpYRkUuukI6LaUpU=",
          "urls":"turns:turnsg01.cloud.zoom.us:443?transport=tcp",
          "username":"81423846-9F1F-D9EF-72D7-1265B18A9BBA:1741859664289"
        }
      ]
    },
    "meetingTopic":"Y29sYnkuZWxvdGVzdEBnbWFpbC5jb20ncyBab29tIE1lZXRpbmci",
    "mmrFeature":3204447728,
    "mmrFeatureEx":4501601879980014,
    "mmrFeatureExStr":"4616187620307367918",
    "mn":"97774758416",
    "participantID":238757,
    "participantIDStr":"238757",
    "reportDomain":"zoomsg134224146206rwg.cloud.zoom.us",
  },
}
```



```
"mediasdkConfig":{
  "iceServers":[
    {
      "credential":"rLYnbcRe9d5IqRiU/Ukst9QY0C2lidMWRmUQoWVvFoc=",
      "urls":"turns:turnsg02.cloud.zoom.us:443?transport=tcp",
      "username":"81423846-9F1F-D9EF-72D7-1265B18A9BBA:1741859664289"
    },
    {
      "credential":"y7rK3BSihbZ33NQeVtUsgynrdvJZpYRkUuukI6LaUpU=",
      "urls":"turns:turnsg01.cloud.zoom.us:443?transport=tcp",
      "username":"81423846-9F1F-D9EF-72D7-1265B18A9BBA:1741859664289"
    }
  ]
},
```



## Firewall rules for Zoom Meetings and Webinars

Protocol	Ports	Source	Destination
<pre> → ~ nslookup turnsg02.cloud.zoom.us Server:          192.168.1.1 Address:         192.168.1.1#53  Non-authoritative answer: Name:   turnsg02.cloud.zoom.us Address: 134.224.147.10         </pre>			
			115.110.154.192/26
			115.114.56.192/26
			115.114.115.0/26
			115.114.131.0/26
			120.29.148.0/24
			121.244.146.0/27
			134.224.0.0/16
			137.66.128.0/17
			144.195.0.0/16
			147.124.96.0/19
			149.137.0.0/17
			156.45.0.0/17
			159.124.0.0/16
			160.1.56.128/25
			161.199.136.0/22
			162.12.232.0/22
			162.255.36.0/22
			165.254.88.0/23



## Response

Pretty

Raw

Hex

Render

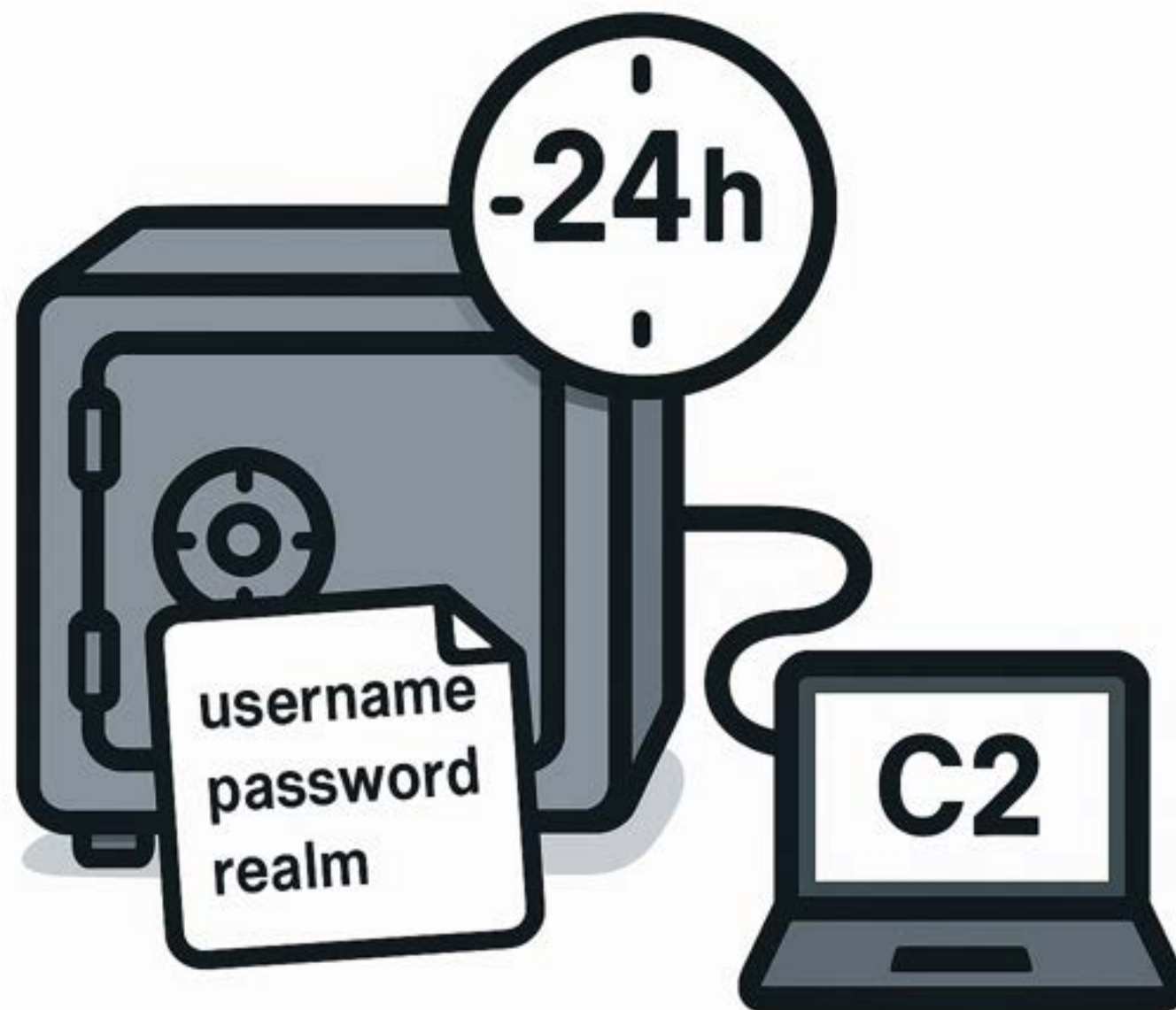


```
1 HTTP/2 200 OK
2 Cache-Control: no-cache, no-store
3 Content-Length: 186
4 Content-Type: application/json; charset=utf-8
5 Ms-Cv: lHKzC4UNR0280SVyWrqm+g.0
6 Strict-Transport-Security: max-age=31536000; includeSubDomains
7 Api-Supported-Versions: 1.0, 2.0
8 Server-Timing: reqlatency;dur=2
9 X-Cache: CONFIG_NOCACHE
10 X-Msedge-Ref: Ref A: C58D8123B9144A1CA7727C9B8DCD5BC8 Ref B: BKK30EDGE0511 Ref C: 2025-03-18T14:10:21Z
11 Date: Tue, 18 Mar 2025 14:10:21 GMT
12
13 {
  "tokens": [
    {
      "realm": "\"rtcmedia\"",
      "username": "AgAAJKTmRIAB252Px+6sqQkexkR0PUDm73PwpkvWP3IAAAAdg8G7t0lFUabmHtcNl06RCa80uA=",
      "password": "InNEjcnomvcT0pPEgPsA800mMkE="
    }
  ],
  "expires": 604800
}
```

```
{
  "tokens": [
    {
      "realm": "\"rtcmedia\"",
      "username": "AgAAJKTmRIAB252Px+6sqQkexkR0PUDm73PwpkvWP3IAAAAdg8G7t0lFUabmHtcNl06RCa80uA=",
      "password": "InNEjcnomvcT0pPEgPsA800mMkE="
    }
  ],
  "expires": 604800
}
```



- Usually valid for a couple of days
- Complements an existing long-term channel
- Not tied to specific calls and credentials persist post-session
- Applies to common platforms like Zoom and Teams
- No install or meeting required on the victim side





# Building the Tool

- A short-lived tunnel launched from an existing implant
- Used briefly and mimics activity like a video call
- Runs in parallel with long-term infrastructure
- Lightweight enough to avoid clogging that primary channel
- Disguised among high-traffic destinations (e.g., Zoom, Teams)

## Most Visited Sites

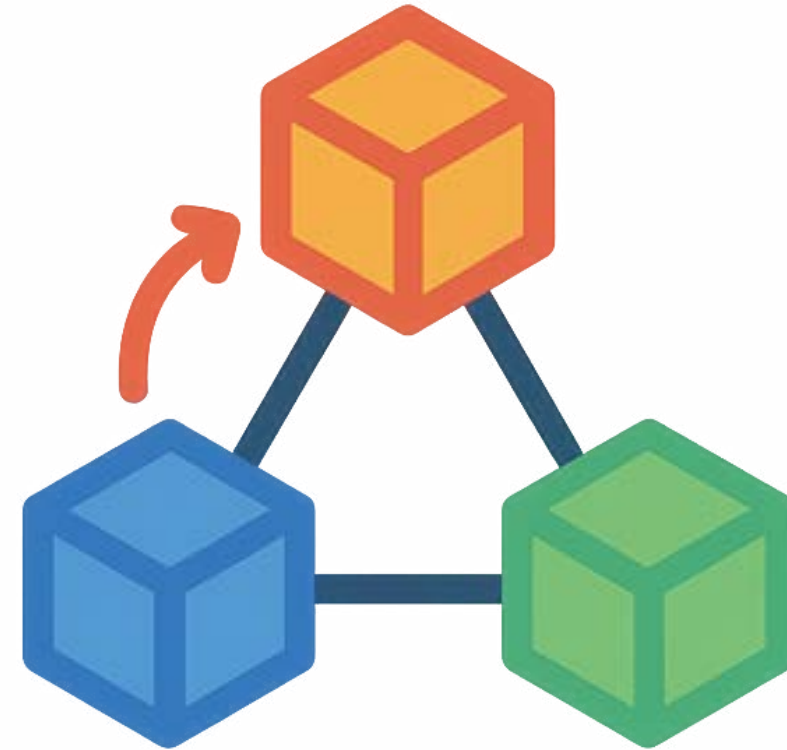
Domain	Request Volume
• google.com	82.450
• microsoft.com	67.813
• amazon.com	52.209
• somebank.com	47.652



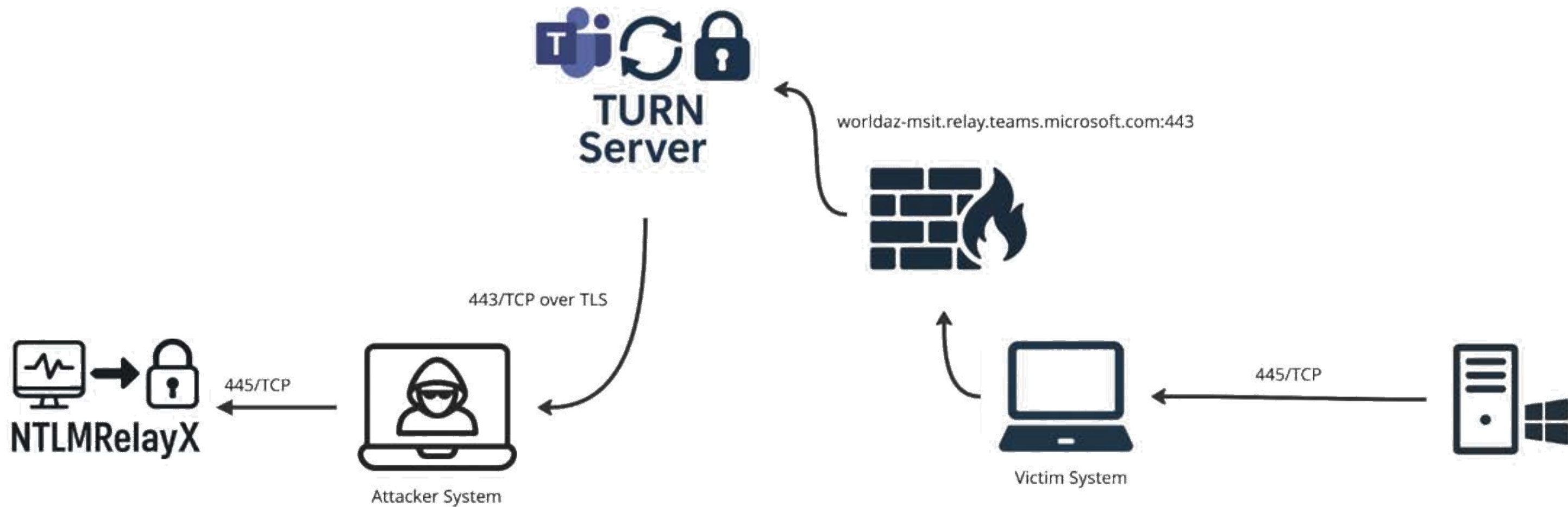
<https://github.com/praetorian-inc/turnt>

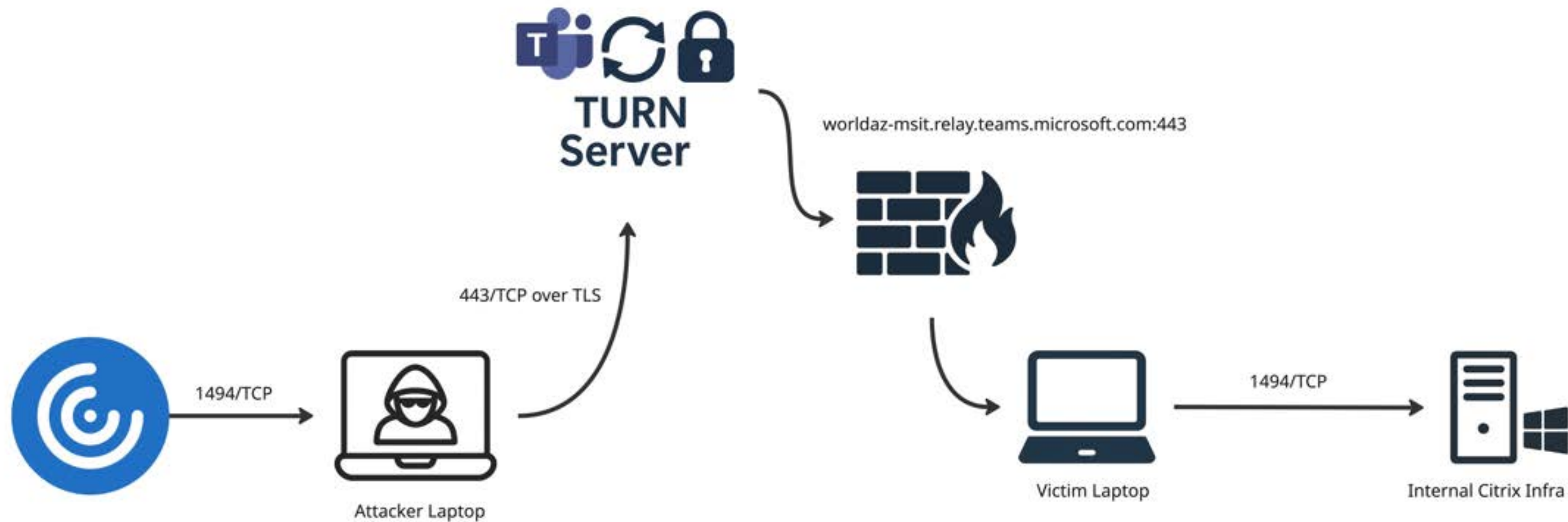


- Fast tunnel setup during assumed breach scenarios
- No need to provision infrastructure in advance
- Operates from operator laptop or disposable VDI
- Ideal for decentralized red team operations
- Lightweight, flexible, and serverless by design



## Decentralized C2

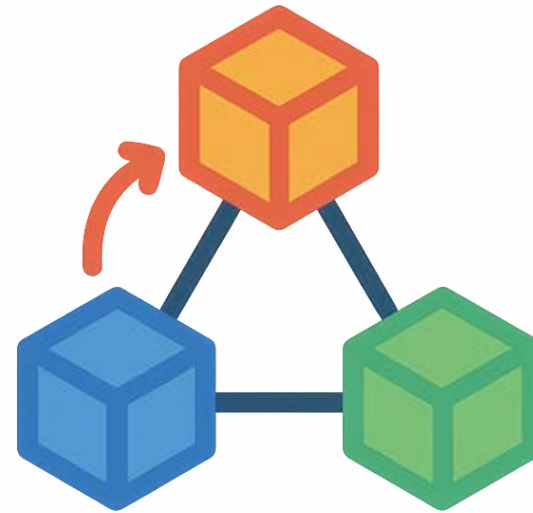




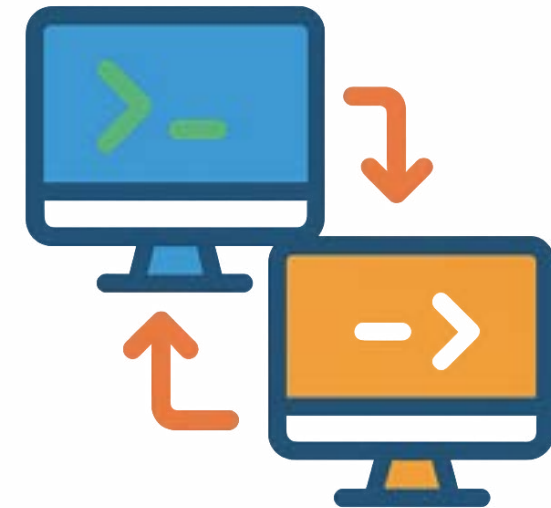




**SOCKS  
Proxying**



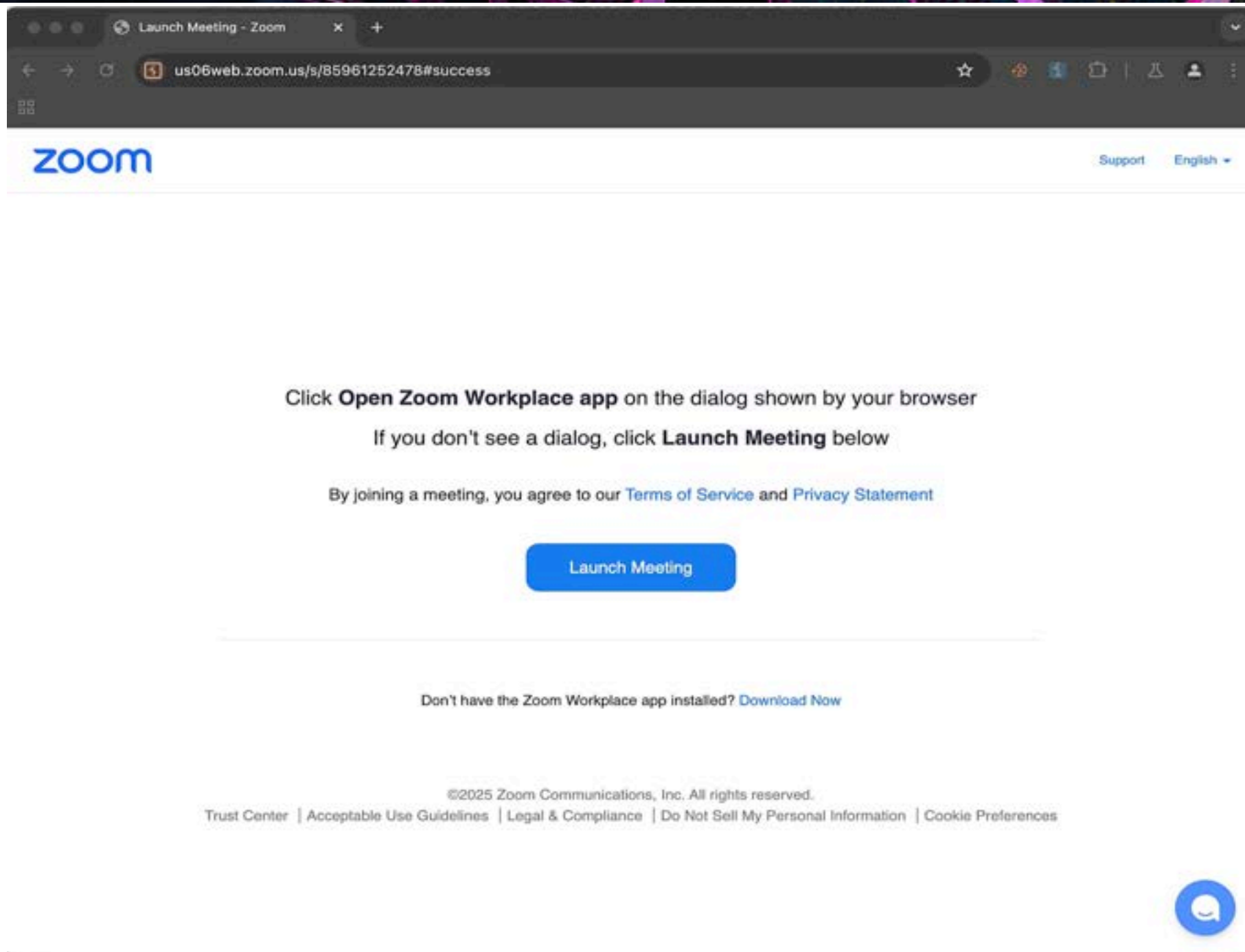
**Decentralized  
C2**



**Local & Remote  
Port-Forwarding**

- Obtaining credentials from Zoom
- Victim doesn't need to do anything
- Laptop is the operator laptop
- Example victim system is GCP virtual machine
- Demo downloading file through the channel





[demo video](#)



- > Internet Protocol Version 4, Src: 192.168.1.43, Dst: 170.114.166.217
- > Transmission Control Protocol, Src Port: 61862, Dst Port: 443, Seq: 1, Ack: 1, Len: 273
- ✓ Transport Layer Security
  - ✓ TLSv1.3 Record Layer: Handshake Protocol: Client Hello
    - Content Type: Handshake (22)
    - Version: TLS 1.0 (0x0301)
    - Length: 268
  - ✓ Handshake Protocol: Client Hello
    - Handshake Type: Client Hello (1)
    - Length: 264
    - > Version: TLS 1.2 (0x0303)
      - Random: cfda9068dcfcc75da6d6220358f91edb332335072707b911d42c681f029daa1f
      - Session ID Length: 32
      - Session ID: fa209d4bc07da86474eca647841334608eab1b481800e7e41defff9d2e02d184f
      - Cipher Suites Length: 38
    - > Cipher Suites (19 suites)
      - Compression Methods Length: 1
    - > Compression Methods (1 method)
      - Extensions Length: 153
    - > Extension: server\_name (len=26) name=turnsin01.sin.zoom.us

- ✓ Handshake Protocol: Client Hello
  - Handshake Type: Client Hello (1)
  - Length: 264
  - > Version: TLS 1.2 (0x0303)
    - Random: cfda9068dcfcc75da6d6220358f91edb332335072707b911d42c681f029daa1f
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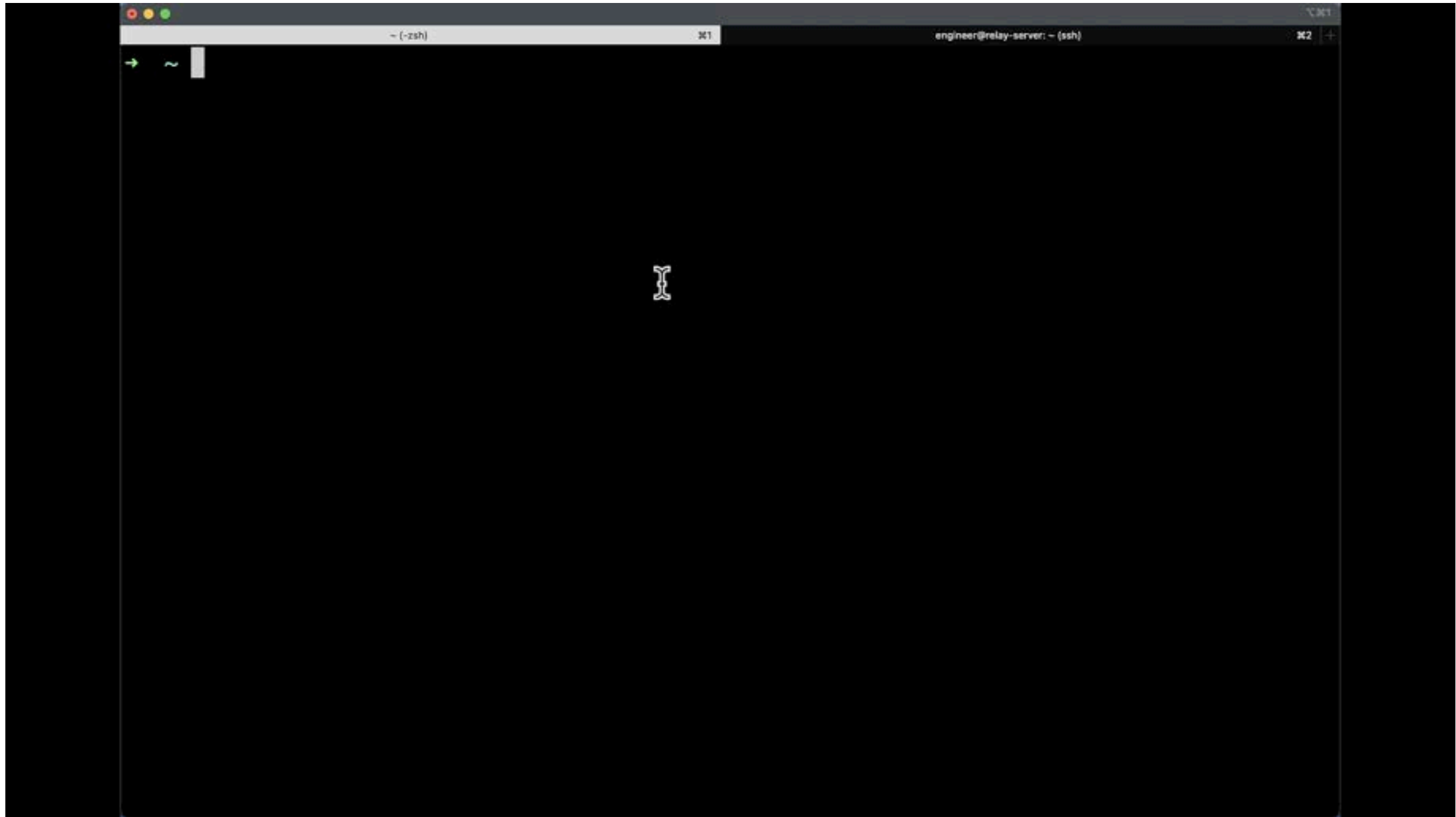


- Show automated retrieval of TURN credentials from Microsoft
- Demonstrate a speed test showing a 100 MB file download
- Demonstrate remote port-forwarding capability
- Lab uses my local laptop and a demo virtual machine in GCP



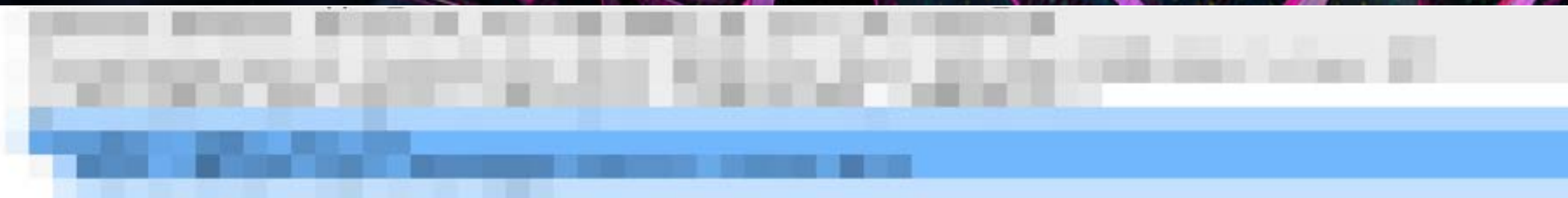






- > Internet Protocol Version 4, Src: 192.168.1.43, Dst: 52.114.55.197
- > Transmission Control Protocol, Src Port: 60570, Dst Port: 443, Seq: 1429, Ack: 1, Len: 357
- > [2 Reassembled TCP Segments (1785 bytes): #30829(1428), #30830(357)]
- ✓ Transport Layer Security
  - ✓ TLSv1.2 Record Layer: Handshake Protocol: Client Hello
    - Content Type: Handshake (22)
    - Version: TLS 1.0 (0x0301)
    - Length: 1780
  - ✓ Handshake Protocol: Client Hello
    - Handshake Type: Client Hello (1)
    - Length: 1776
    - > Version: TLS 1.2 (0x0303)
    - > Random: 21058fee53f9753786f537e6158e9f9123d3ce824bfff6da2a14f47c80a2e9b00
      - Session ID Length: 32
      - Session ID: 3b39951ffe287758fdf1c8ca54b945f99fc5ae94a7891877b7652a9e148230b5
    - Cipher Suites Length: 32
    - > Cipher Suites (16 suites)
    - Compression Methods Length: 1
    - > Compression Methods (1 method)
    - Extensions Length: 1671
    - > Extension: Reserved (GREASE) (len=0)
    - > Extension: status\_request (len=5)
    - > Extension: signature\_algorithms (len=18)
    - > Extension: key\_share (len=1263) X25519MLKEM768, x25519
    - > Extension: encrypted\_client\_hello (len=250)
    - > Extension: server\_name (len=43) name=worldaz-msit.relay.teams.microsoft.com



- 
- A blurred screenshot of a Wireshark packet capture, showing various protocol layers and their corresponding data sizes in bytes.
- > Internet Protocol Version 4, Src: 192.168.1.43, Dst: 52.114.55.197
  - > Transmission Control Protocol, Src Port: 60570, Dst Port: 443, Seq: 1429, Ack: 1, Len: 357
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    - ▼ TLSv1.2 Record Layer: Handshake Protocol: Client Hello
      - Content Type: Handshake (22)
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      - ▼ Handshake Protocol: Client Hello

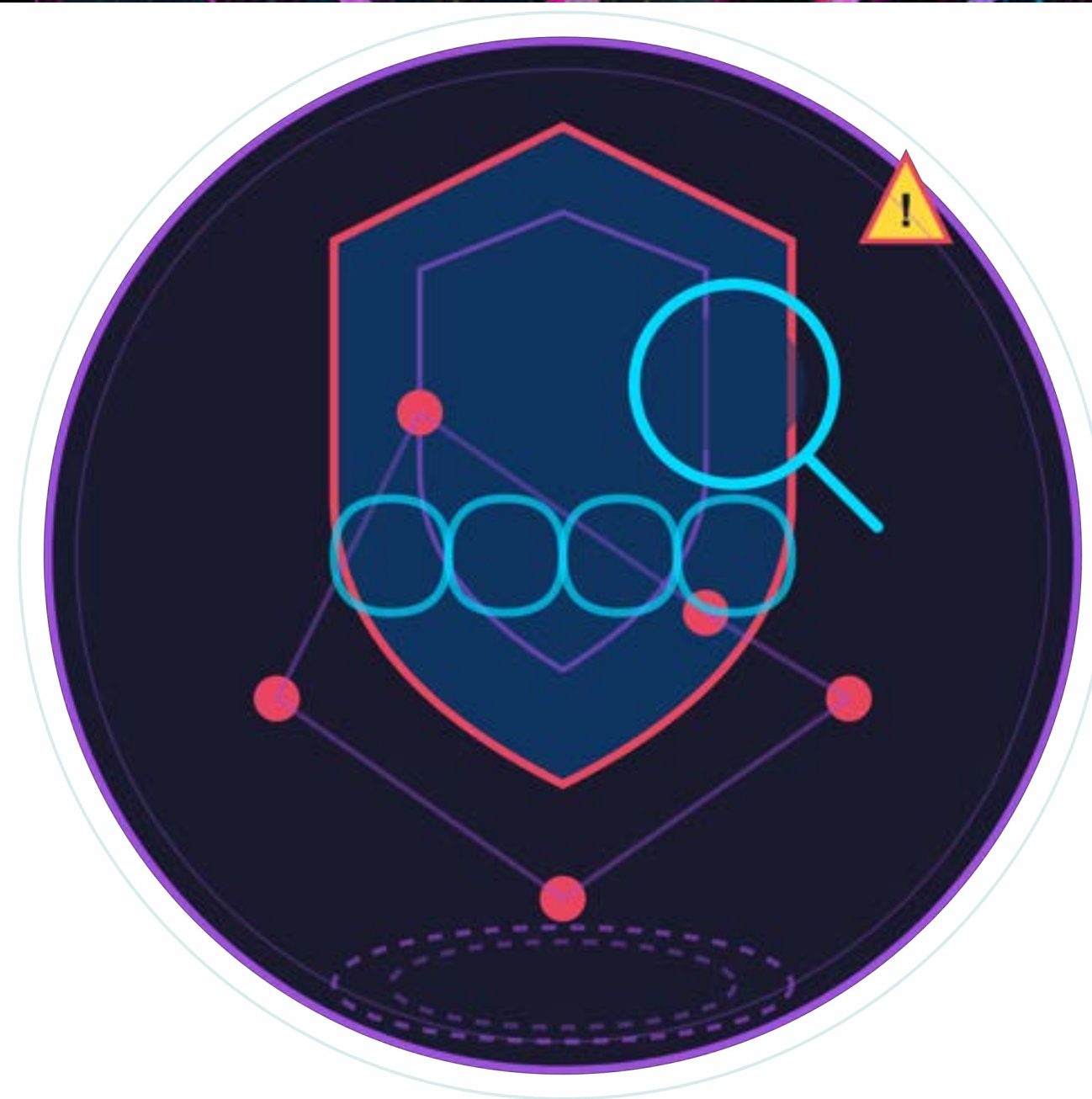
- ✓ Handshake Protocol: Client Hello
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  - > Extension: key\_share (len=1263) X25519MLKEM768, x25519
  - > Extension: encrypted\_client\_hello (len=250)
  - > Extension: server\_name (len=43) name=worldaz-msit.relay.teams.microsoft.com



# Conclusion



- Detection is hard
- Focus on other points in the kill chain
- Look for attacker tools proxied through the tunnel
- Low signal at network layer
- TURN creds can't be removed



- Chasing weak signals like raw traffic volume
- Correlating process-to-destination traffic is noisy
- High effort, low return on detection accuracy
- Hard to distinguish legit conferencing from abuse



**Process  
Correlation**



**Traffic  
Volume**



- “Read Teaming” targets credentials and shares
- Common targets: Slack, SharePoint, GitHub, Jira, etc.
- Targeting credentials and other sensitive data
- Canary tokens reveal enumeration early
- Simple, low-cost, and highly effective control

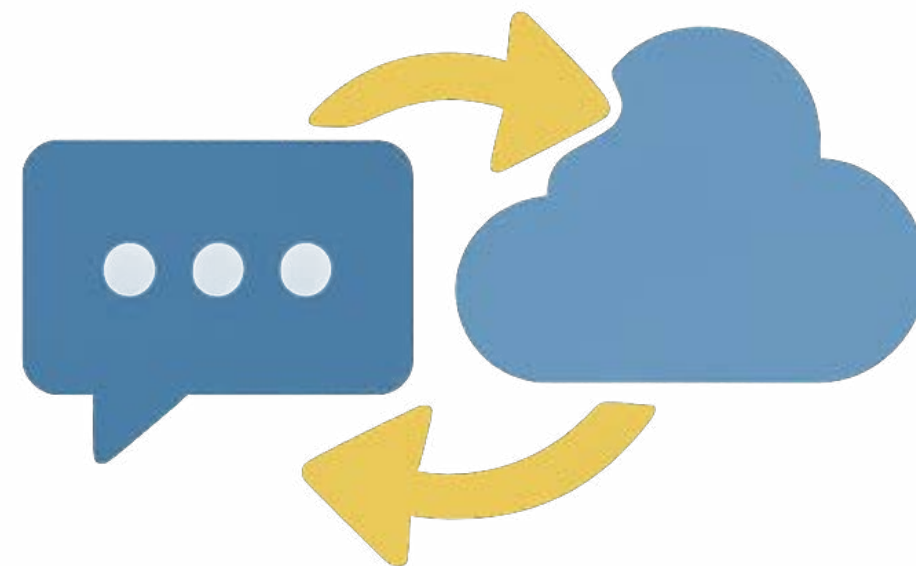




- Attackers proxy tools rather than run them locally
- Focus on offensive tool behavior not the channel
- Detect usage of tools like secretsdump.py or Impacket

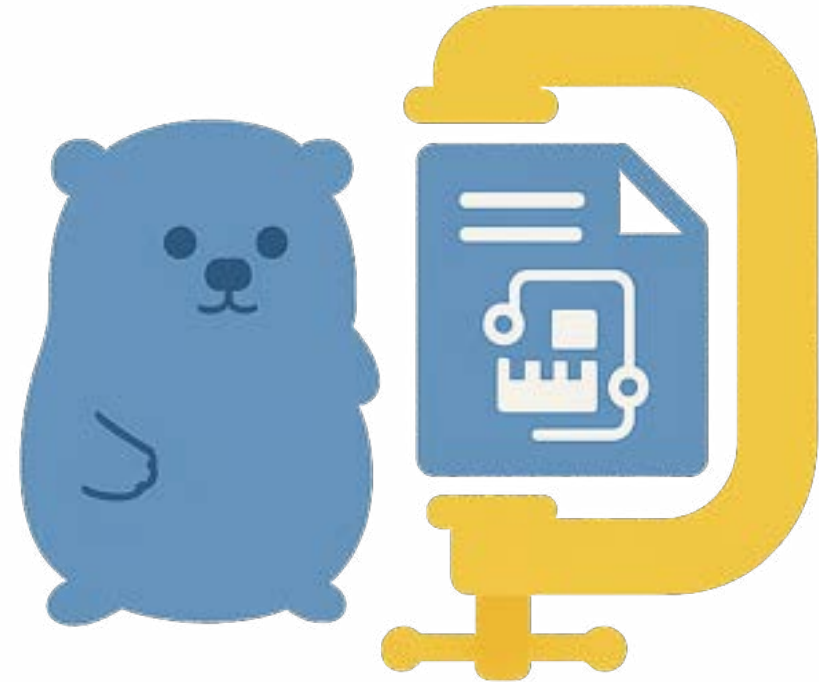


- Other providers beyond Zoom/Teams also use TURN
- Opportunity for further mapping and validation
- Ideal entry-point project for new researchers
- Doesn't require major tooling changes
- Expands applicability of the core method



**Expand  
Supported  
Providers**

- Current Go binaries weigh in around 2-3 MB
- Porting to C/C++ could reduce size under 1MB
- Smaller payloads improve operational stealth
- Better fit for constrained or ephemeral systems
- Helps with evasion and minimal footprint delivery



## Reduce Controller Binary Size



- Explore default settings in security appliances
- Identify vendor-based exclusions or allow-listing
- Check if IP ranges are auto-approved by default
- Investigate TLS inspection exemptions for key domains
- Assess how much trust these defaults embed



**Dig into  
Security  
Tooling**

- Web conferencing solutions provide a compelling vector for covert short-term command and control channels
- TURNt is a new open-source tool that helps facilitate short-term C2 communication over the TURN protocol
- TURN provides a provider agnostic manner for tunneling traffic through potentially trusted web conferencing infrastructure

## Blog Post



## Tool Release



## LinkedIn

