

Kill the
ADS
KEEP YOUR PRIVACY

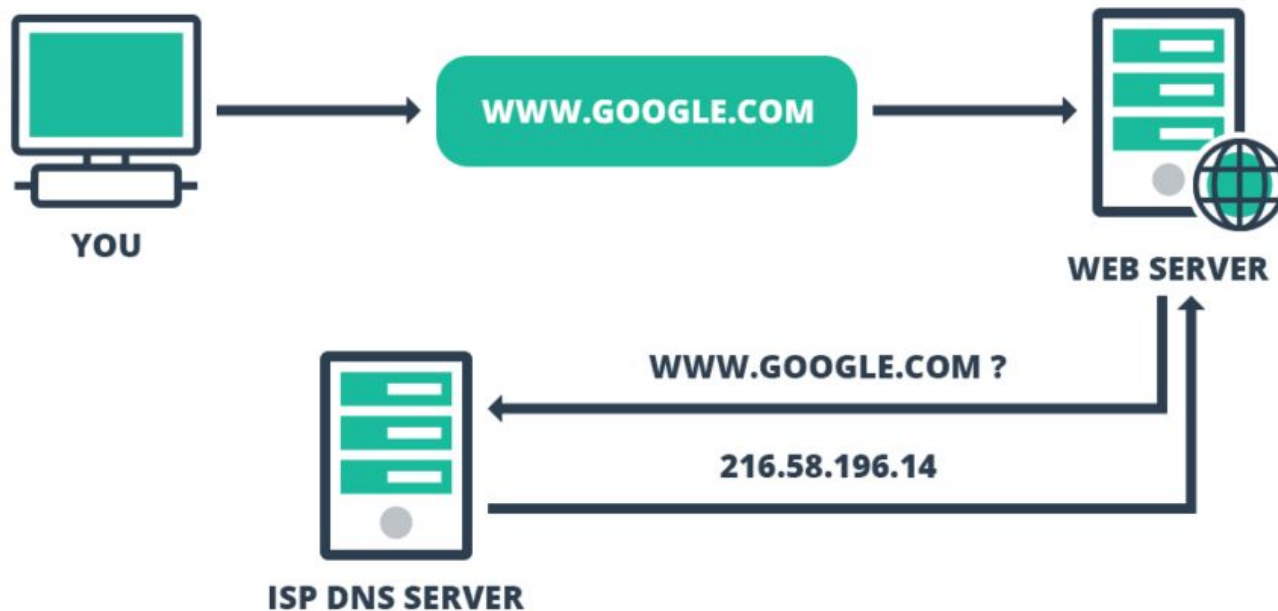
PRESENTED BY



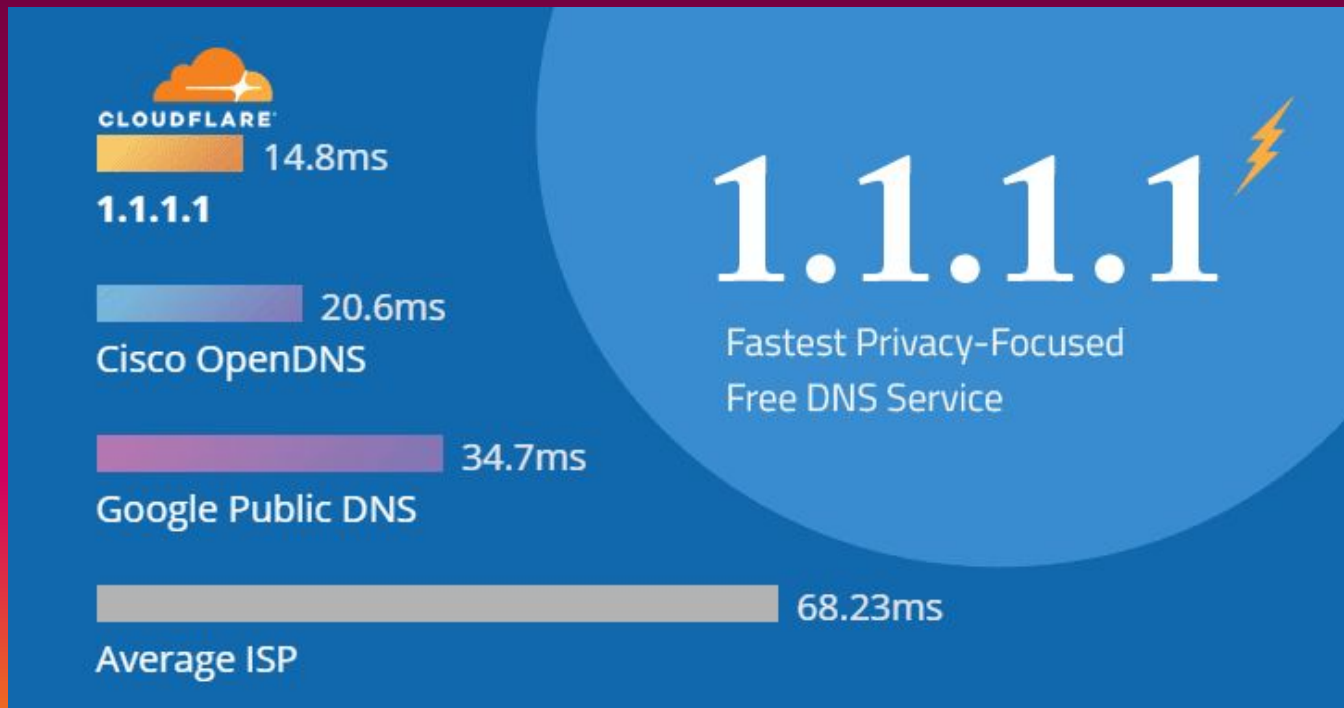
What is DNS?



HOW DNS WORKS



Alternative DNS Servers



Why is it important?



How to change your DNS

The image shows a sequence of three overlapping Windows windows illustrating how to change DNS settings. Red annotations (1, 2, 3) and arrows guide the user through the process.

Window 1: Network and Sharing Centre

- Location: Control Panel > Network and Internet > Network and Sharing Centre
- Section: Wireless Network Connection Status
- Connection: Internet
- IPv4 Connectivity: Internet
- IPv6 Connectivity: No network access
- Media State: Enabled
- SSID: TendaZone
- Duration: 3 days 11:01:04
- Speed: 65.0 Mbps
- Signal Quality: (Signal strength bars)
- Buttons: Details..., Wireless Properties
- Activity: Sent (55,358,518 bytes), Received (761,076,046 bytes)
- Red box 1: Properties button
- Red arrow points from Properties button to the next window.

Window 2: Wireless Network Connection Properties

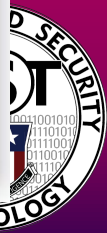
- Section: Networking
- Connect using: Atheros AR9285 Wireless Network Adapter
- This connection uses the following items:

 - ☒ Client for Microsoft Networks
 - ☒ File and Printer Sharing for Microsoft Networks
 - ☒ QoS Packet Scheduler
 - Red box 2: ☒ Internet Protocol Version 4 (TCP/IPv4)**
 - ☐ Microsoft Network Adapter Multiplexor Protocol
 - ☒ Microsoft LLDP Protocol Driver
 - ☒ Internet Protocol Version 6 (TCP/IPv6)

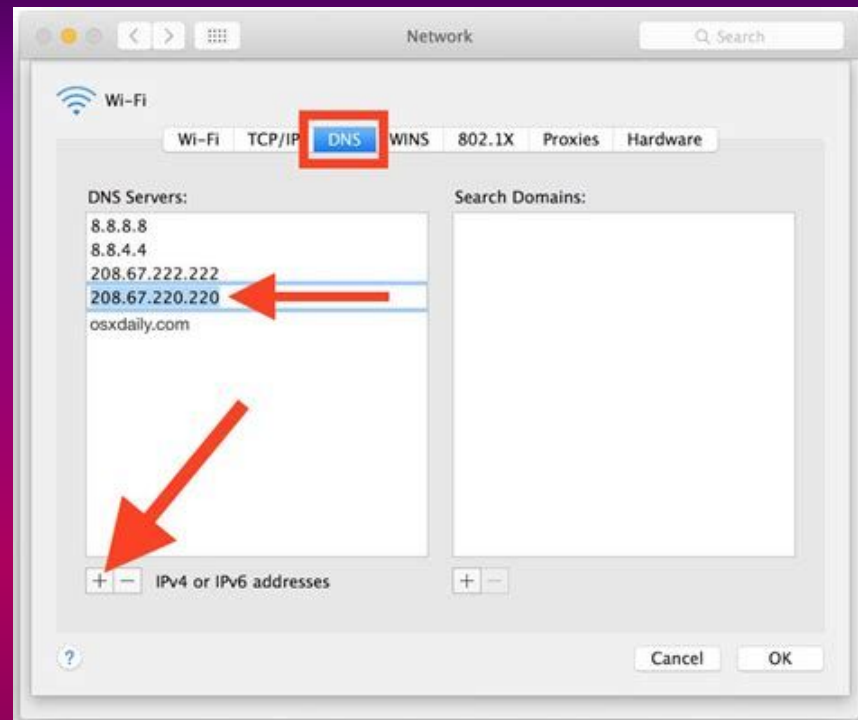
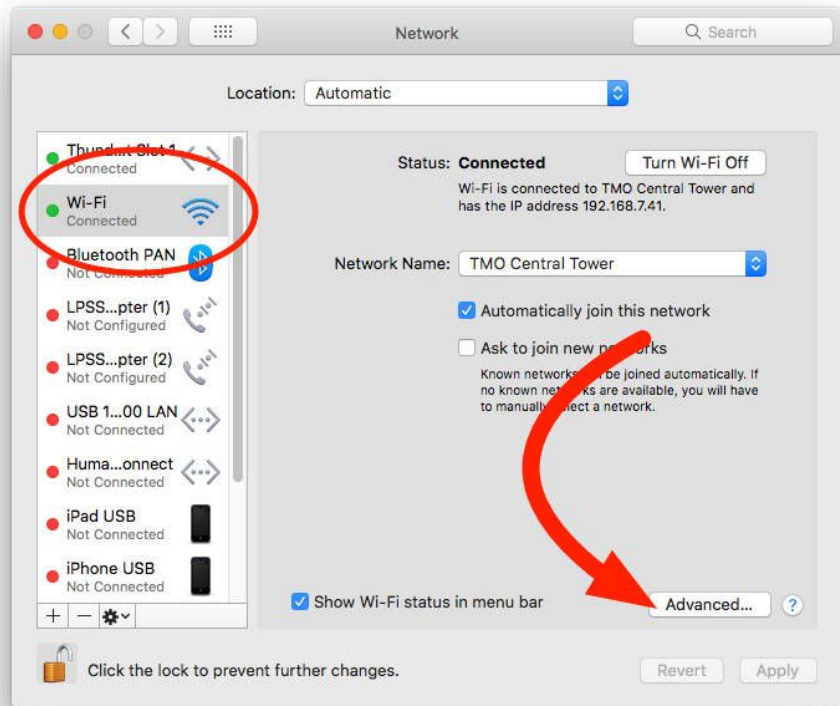
- Buttons: Install..., Uninstall...
- Red arrow points from the selected Internet Protocol Version 4 (TCP/IPv4) item to the next window.

Window 3: Internet Protocol Version 4 (TCP/IPv4) Properties

- Section: General
- Options:
 - ☒ Obtain an IP address automatically
 - ☐ Use the following IP address:
 - IP address: . . .
 - Subnet mask: . . .
 - Default gateway: . . .
 - ☐ Obtain DNS server address automatically
 - Red box 3: ☒ Use the following DNS server addresses:**
- Fields:
 - Preferred DNS server: 1 . 1 . 1 . 1
 - Alternative DNS server: 1 . 0 . 0 . 1
- Buttons: Validate settings upon exit, Advanced..., OK, Cancel



How to change your DNS



Privacy On - Benefits

- Keep your privacy!
 - Block advertisements before they reach your browser
 - Manage and analyze DNS data with Pi-Hole!

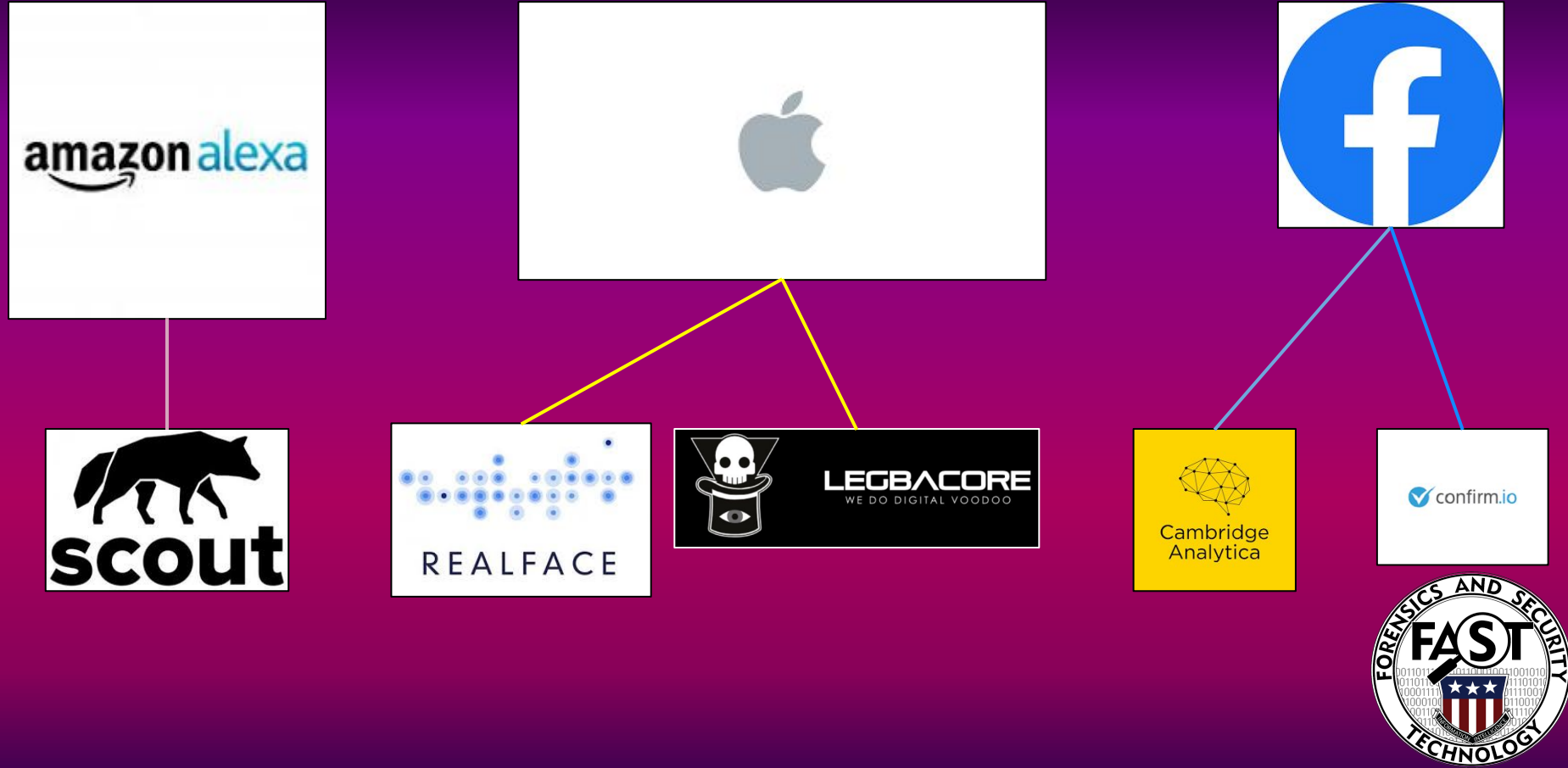


Privacy Off - Drawbacks

- Our data is the 21st Century Oil!
- Every major site uses trackers
- Companies Manage Data differently
 - You have no control over it



Companies that mine your information



The Hacker News

Apple Under Fire Over Sending Some Users Browsing Data to China's Tencent

📅 October 14, 2019 👤 Swati Khandelwal

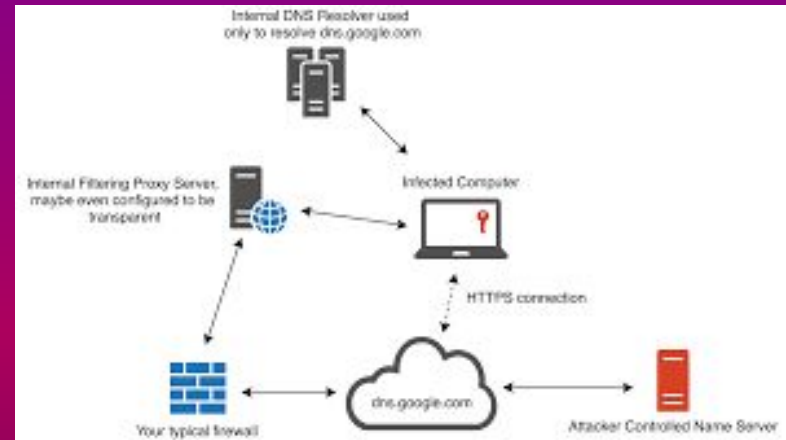


DNS Threats

DNS Zone Transfer



DNS Data Exfiltration





Q Radar

Security Information and Event Management(SIEM)



Security Devices



Servers and Mainframes



Network and Virtual Activity



Data Activity



Application Activity



Configuration Information



Vulnerabilities and Threats



Users and Identities

Correlation

- Logs/Events
- Flows
- IP Reputation
- Geographic Location

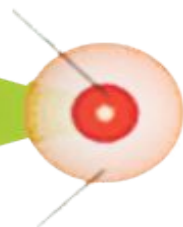
Activity Baseline and Anomaly Detection

- User Activity
- Database Activity
- Application Activity
- Network Activity

Offense Identification

- Credibility
- Severity
- Relevance

True Offense

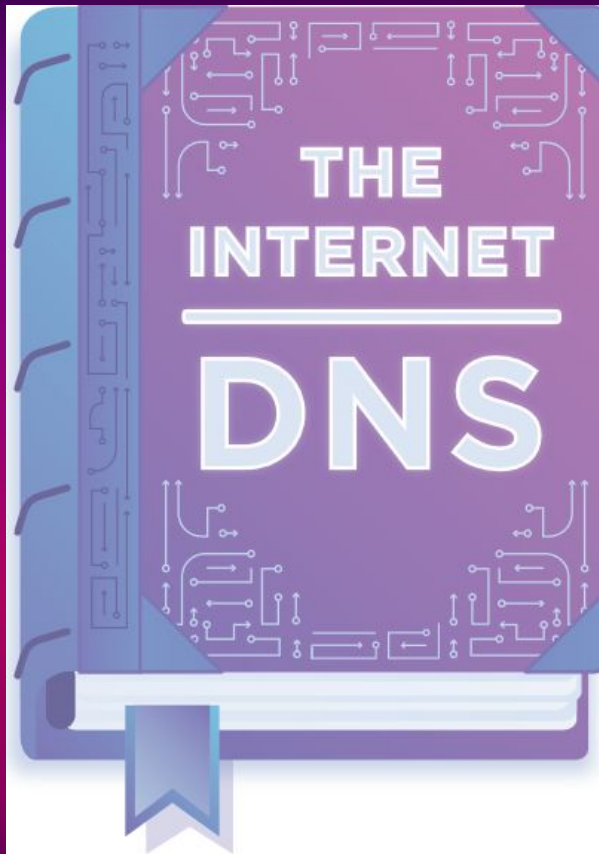


False Alarm



Summary

- Define what is a DNS.
- How can DNS affect you.
- How can Pi-Hole help you.



Sources

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