PCAP analysis from both the PCAP's (wifi capture and ethernet mirror capture

Capture Time : Around 4 mins(269216 packets)

After observing the PCAP's we can observe there are mainly 6 protocol packets which are UDP(DNS,NTP),TCP,HTTP,TLSv1.3,ICMP and few other traces.

A sample packet is taken from each protocol and it is analysed in total 4 directions(forward-wifi,forward-ethernet,backward-wifi,backward-ethernet)

Protocol	Percentage	Header Fields in Hop1(WiFi)	Header Fields in Hop2(Ethernet)	Comments and Conclusions in connection to our work	
DNS-Forward	0.6%	**MAC** Source::Alexa's MAC Dest:Router's MAC **IP** Source:Alexa's IP Dest:Router's IP **Port:** Source:14336 Dest:53	**MAC** Source:Router's MAC Dest:Laptop's MAC **IP** Source:Alexa's IP Dest:Router's IP **Port:** Source:14336 Dest:53		
DNS-Backward		**MAC** Source::Router's MAC Dest:Alexa's MAC **IP** Source:Router's IP Dest:Alexa's IP **Port:** Source:53	**MAC** Source:Router's MAC Dest:Laptop's MAC **IP** Source:Router's IP Dest:Alexa's IP **Port:** Source:53		

		Dest:14336	*Dest:14336*		
NTP-Forward	*35 packets(roughly 0.013%)*	**MAC** *Source::Alexa's MAC Dest:Router's MAC* **IP** *Source:Alexa's IP Dest:Amazon's IP* **Port:** *Source:52586 Dest:123*	**MAC** *Source::Router's MAC Dest:Laptop's MAC* **IP** *Source:Alexa's IP Dest:Amazon's IP* **Port:** *Source:52586 Dest:123*		
NTP-backward		**MAC** *Source::Router's MAC Dest:Alexa's MAC* **IP** *Source:Amazon's IP Dest:Alexa's IP* **Port:** *Source:123 Dest:52586*	**MAC** *Source::Router's MAC Dest:Laptop's MAC* **IP** *Source:Amazon's IP Dest:Alexa's IP* **Port:** *Source:123 Dest:52586*		
TCP-Forward	*68.2%*	**MAC** *Source::Alexa's MAC Dest:Router's MAC* **IP** *Source:Alexa's IP Dest:Amazon's IP(52.206.187.167)* **Port:** *Source:47150 Dest:80*	**MAC** *Source::Router's MAC Dest:Laptop's MAC* **IP** *Source:Alexa's IP Dest:Amazon's IP(52.206.187.167)* **Port:** *Source:47150 Dest:80*		
TCP -Backward		**MAC** *Source::Router's MAC Dest:Alexa's MAC*	**MAC** *Source::Router's MAC Dest:Laptop's MAC*		

		IP Source:Amazon's IP Dest:Alexa's IP **Port:** Source:80 Dest:47150	**IP** Source:Amazon's IP Dest:Alexa's IP **Port:** Source:80 Dest:47150		
HTP-Forward	6 packets in total	**MAC** Source::Alexa's MAC Dest:Router's MAC **IP** Source:Alexa's IP Dest:Amazon's IP **Port:** Source:35352 Dest:80	**MAC** Source::Router's MAC Dest:Laptop's MAC **IP** Source:Alexa's IP Dest:Amazon's IP **Port:** Source:35352 Dest:80		
HTP-Backward		**MAC** Source::Router's MAC Dest:Alexa's MAC **IP** Source:Amazon's IP Dest:Alexa's IP **Port:** Source:80 Dest:35352	**MAC** Source::Router's MAC Dest:Laptop's MAC **IP** Source:Amazon's IP Dest:Alexa's IP **Port:** Source:80 Dest:35352		
TLSv 1.3-Forward	2.1%	**MAC** Source::Alexa's MAC Dest:Router's MAC **IP** Source:Alexa's IP Dest:Amazon's IP(13.227.232.59) **Port:** Source:53908	**MAC** Source::Router's MAC Dest:Laptop's MAC **IP** Source:Alexa's IP Dest:Amazon's IP(13.227.232.59) **Port:** Source:53908		

		Dest:443	Dest:443		
TLSv 1.3-Backward		***MAC*** *Source::Router 's MAC* *Dest:Alexa's MAC* ***IP*** *Source:Amazon's IP* *Dest:Alexa's IP* ***Port:*** *Source:443* *Dest:53908*	***MAC*** *Source::Router 's MAC* *Dest:Laptop's MAC* ***IP*** *Source:Amazon's IP* *Dest:Alexa's IP* ***Port:*** *Source:443* *Dest:53908*		
ICMP-Forward	*31.2%*	***MAC*** *Source:* *Dest:* ***IP*** *Source:* *Dest:*	***MAC*** *Source:* *Dest:* ***IP*** *Source:* *Dest:*		
ICMP-Backward		***MAC*** *Source:* *Dest:* ***IP*** *Source:* *Dest:*	***MAC*** *Source:* *Dest:* ***IP*** *Source:* *Dest:*		