



MANTHAN
राष्ट्रीय सुरक्षा सर्वोपरि

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Introduction



75
Azadi Ka
Amrit Mahotsav

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Cybercriminals often operate using proxy IP addresses to mask their actual IP addresses for enhanced anonymity. Need to build a solution that can determine if an IP is actual or a proxy/VPN IP address. In addition to it, the solution traces the actual IP address as well as provide details of the VPN service provider.

Idea Introduction and Abstract



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Trace IP behind VPN – USING METADATA.

Tech Stack	Resources Used	Any Third Party API/Services used
1. Python scripting	1.IpQuality Score	1.Yes
2. Tor	2. Wiggle Indexing.	
3. Wireshark		
4. Metasploit		
5. Sql		



USE METADATA OF THE SERVER TO DISCOVER IP, AND MAKE USE OF Assisted GPS to get the location.



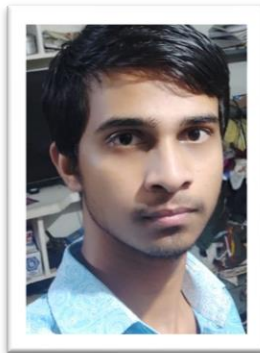
The possible outcomes of the solution are:

It can distinguish the host Ip from the translated vpn/proxy Ip.

It can Trace back the original Ip behind the vpn/proxy Ip.

It is able to Pin down the target location.

Team Slide



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Approach Towards Idea



Distinguish a Real IP from a vpn

- 1) IPQualityScore maintains the most accurate database of VPN providers, including new servers and nodes that are added each day.

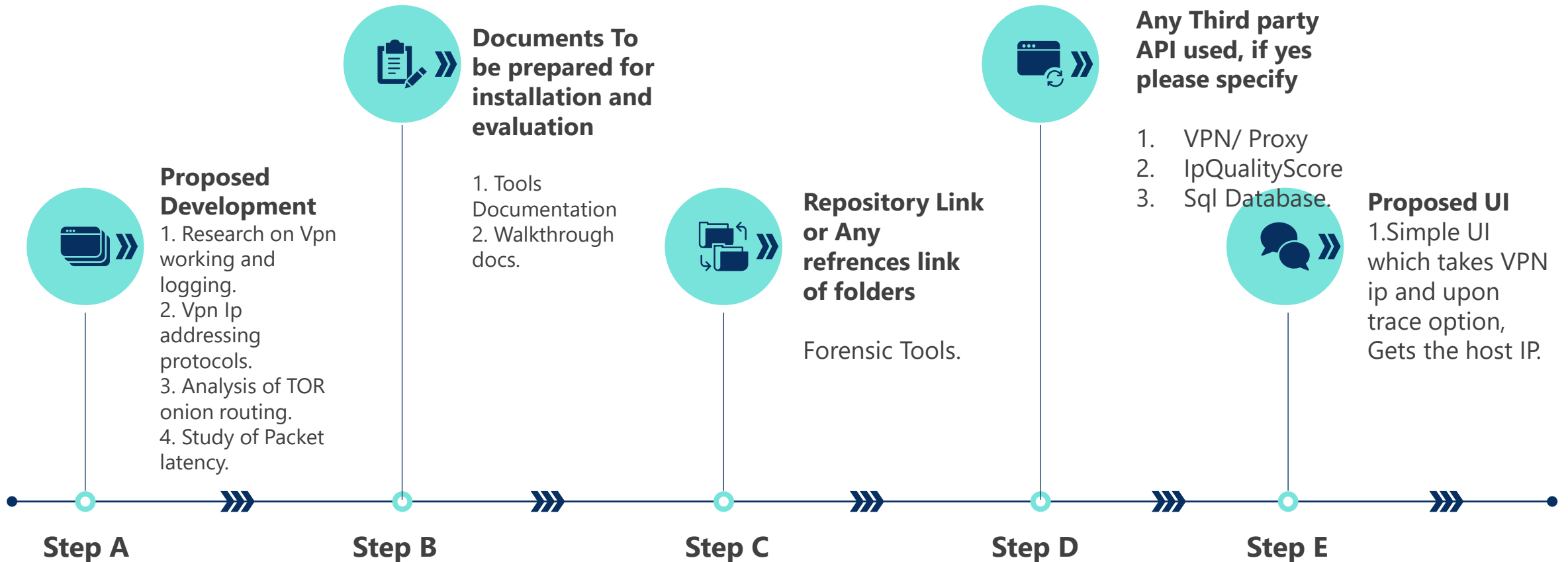
Trace Ip behind a vpn

- 1) Through vpn server logs
- 2) Use Meta data to get device information. Analyze possible dns leaks

Get the location:

- 1) Google Maps and Wigle Wifi indexes the location of most Wi-Fi networks, We can use that data to find where a user is.

Development Pipeline





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Vision of Innovation/Idea/Solution

We often fail to track down the identity of Hackers as their Ip's are vpn masked. So, Unfolding this constraint proves super useful in Crime Investigation.

Our Idea is Unique! There is no existing solution to the given statement.



This approach may take around 3 months for the final the Real world Implementation as there are no Previous records or leads to our approach. Gotta build from scratch.

Early Innovation Ideas:
1. Tracking down targets using on the go indexing of Wireless Networks under Assisted Gps protocols.