

IP Geolocation & HTTP

[draft-pauly-httpbis-geoip-hint-01](#)

HTTPBIS - IETF 121 – Dublin – 2024-11

Tommy Pauly, David Schinazi, [Ciara McMullin](#), Dustin Mitchell

What's the problem?

IP-hiding technologies are great for improving user privacy!

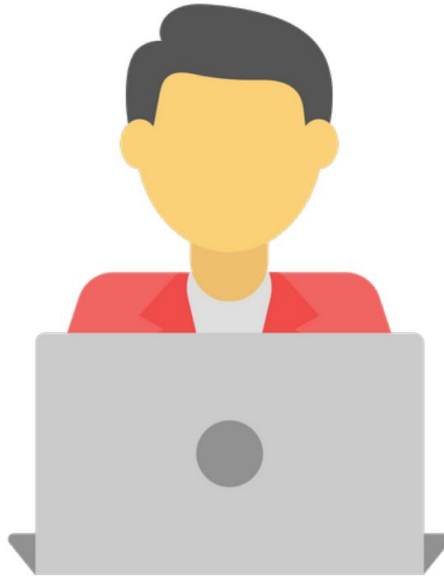
But masking IP addresses comes with some challenges 😞

- (1) Egress IPs mapping to inaccurate location data frustrates users and leads them to disable privacy features
- (2) Implementing privacy solutions is costly and complex, as it requires extensive IP address pools and depends on geofeed adoption

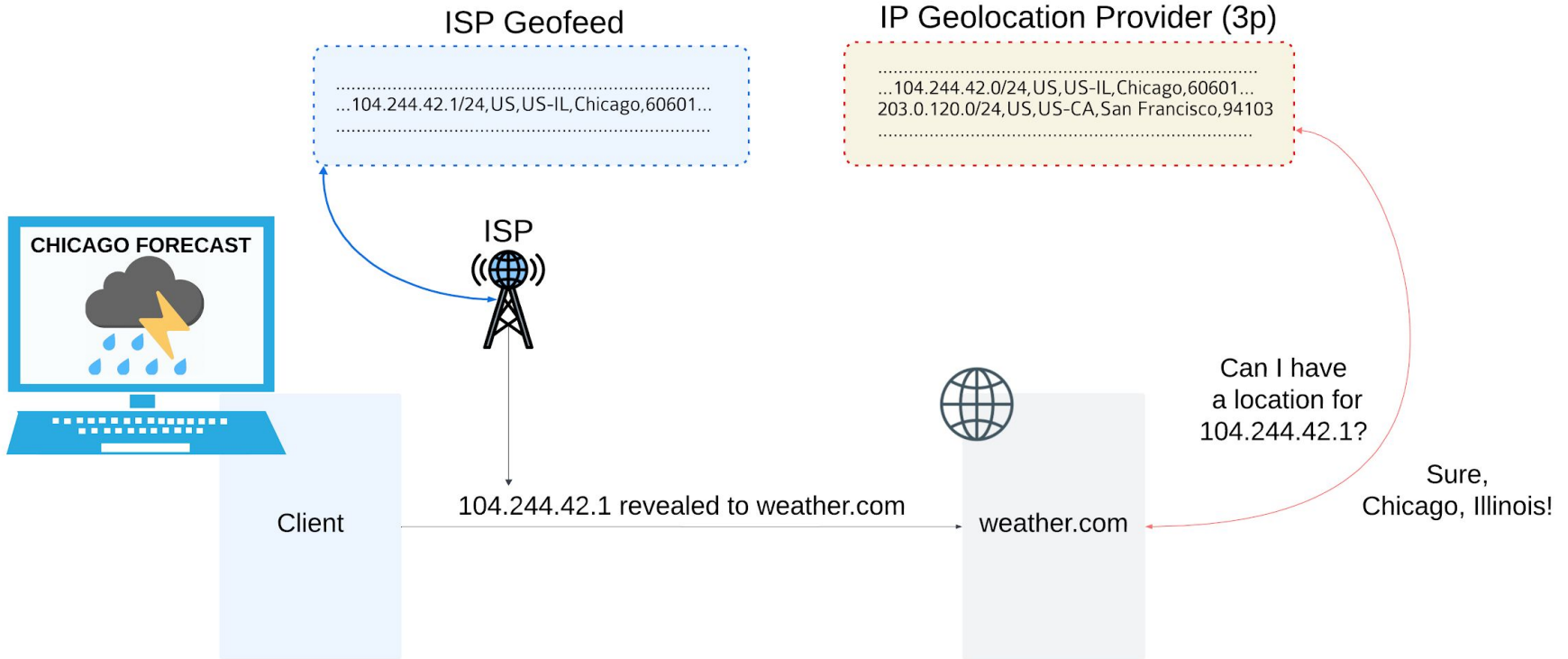
What's the goal?

Improve user privacy while maintaining the relevancy of user-intended location

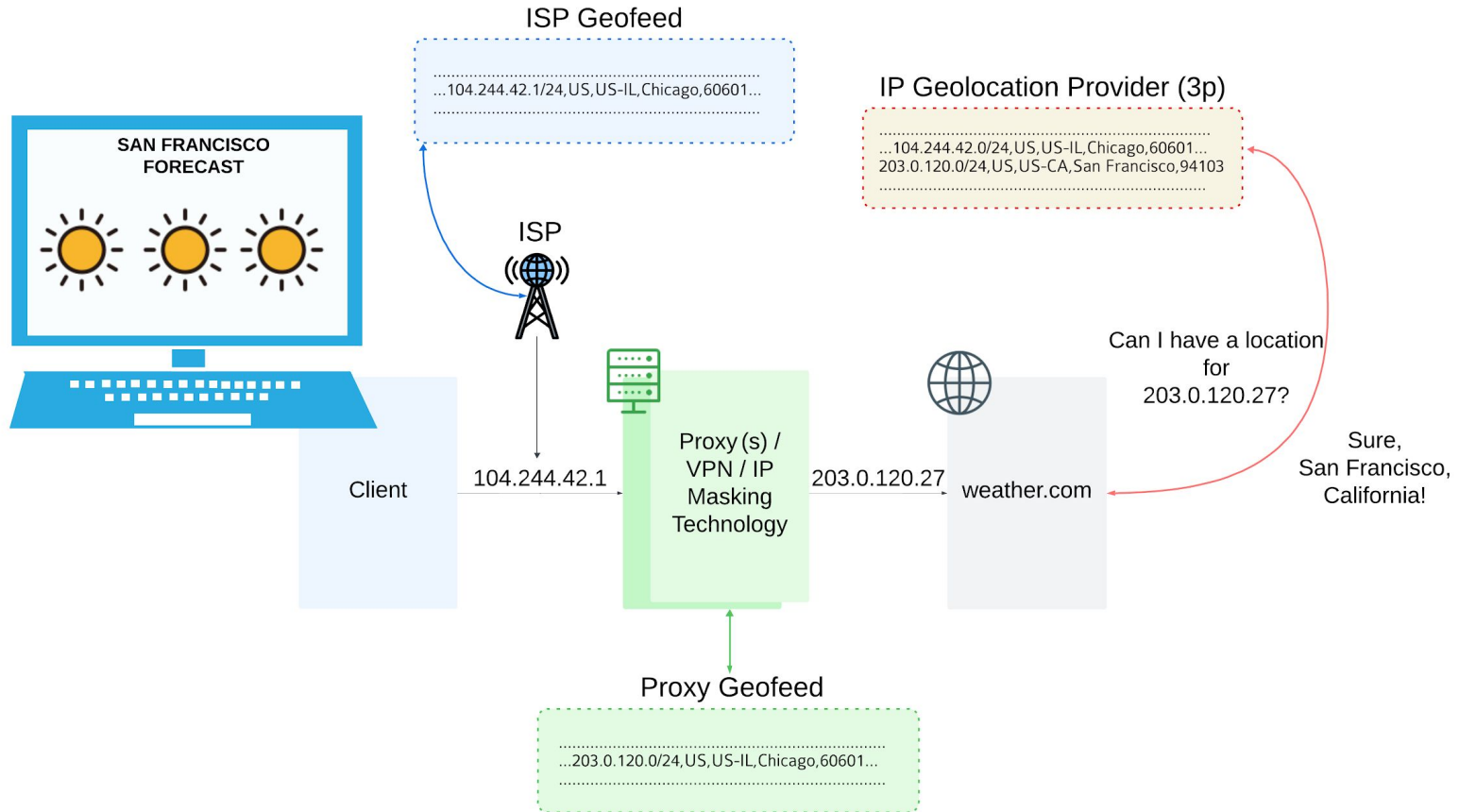
What's the weather today?



No IP-hiding technologies



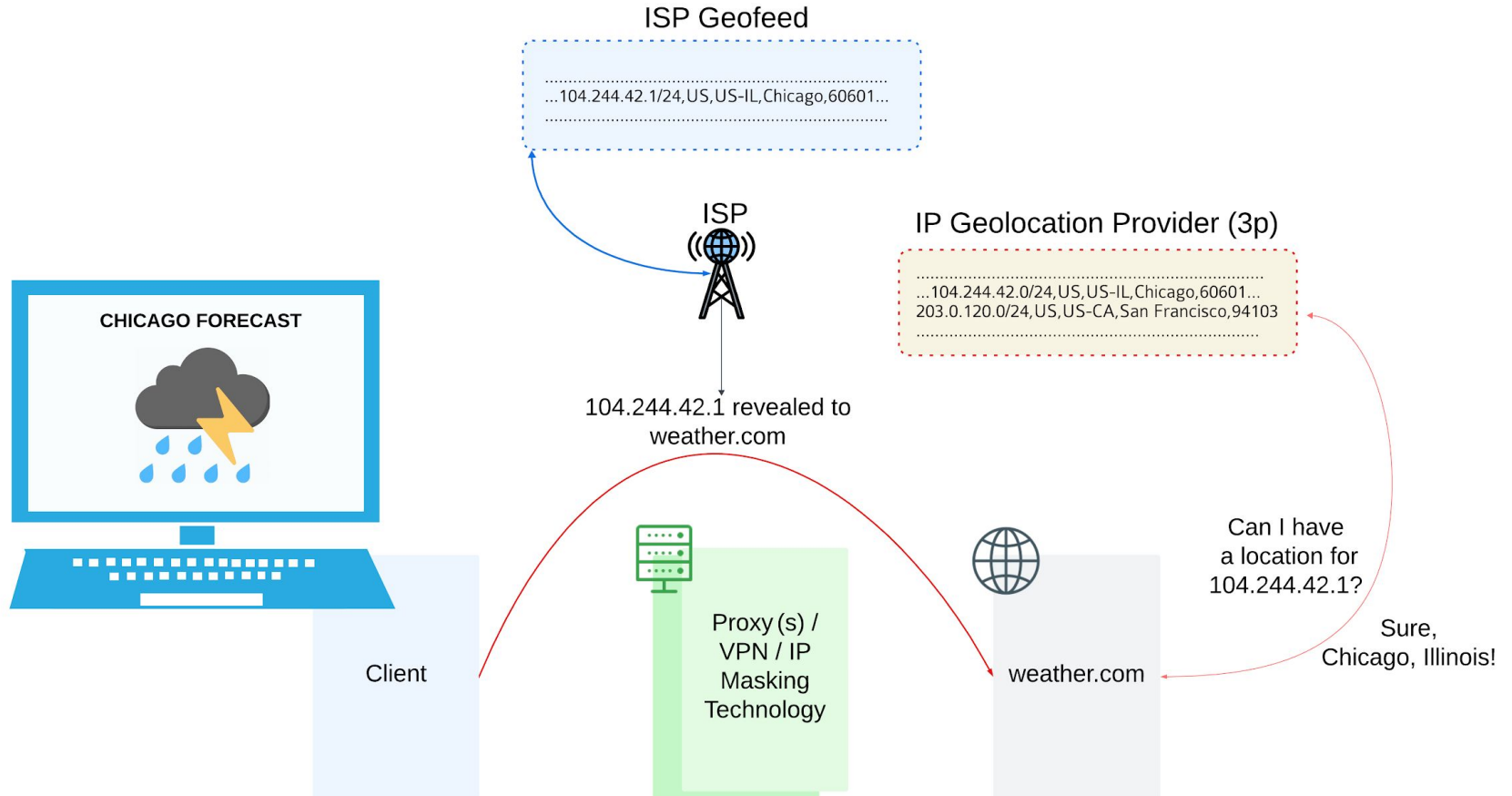
With a Proxy or VPN



**But I'm not in
San Francisco**



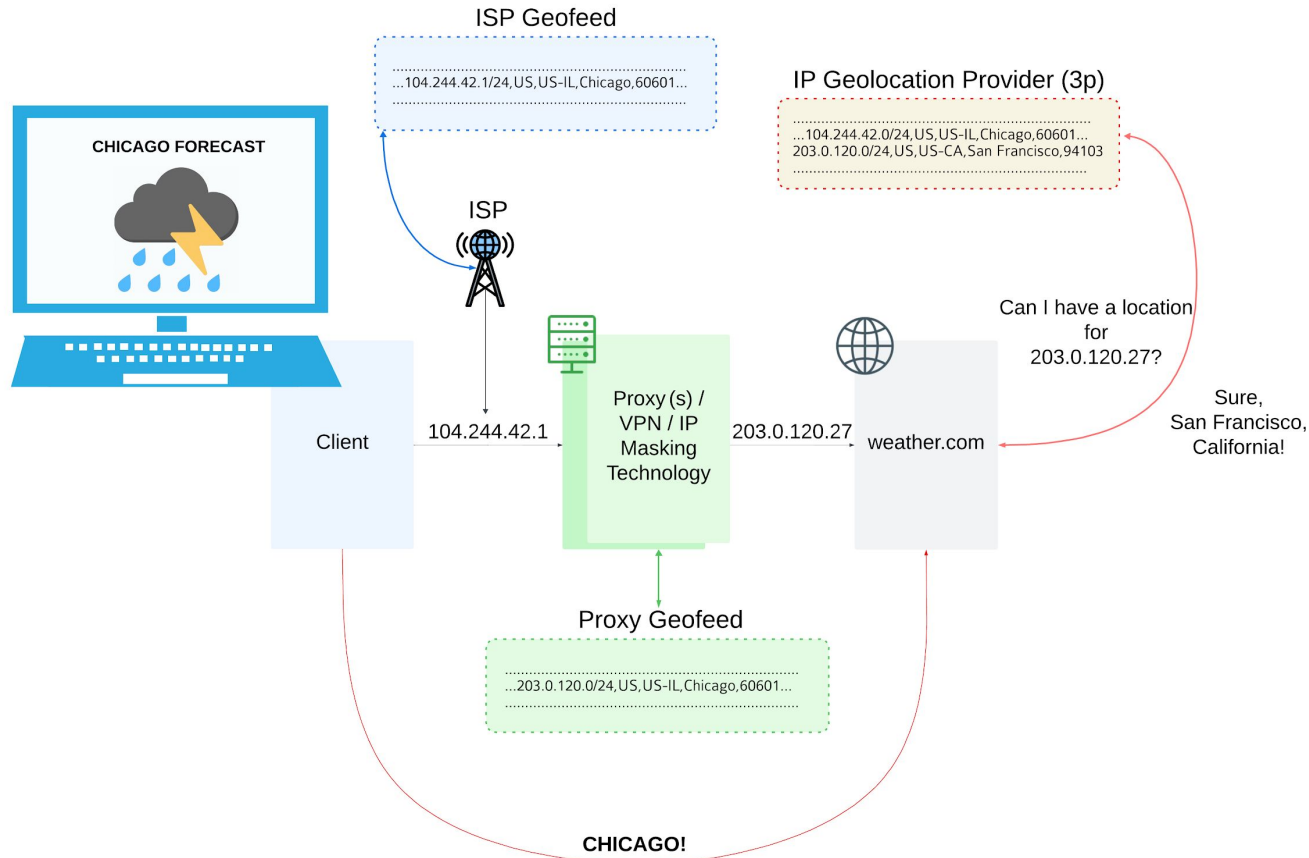
Let's turn this off I need to know the weather near me



**But now my
IP address
is exposed**



Can we get IP privacy and relevant location?



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Discusses an HTTP Client Hint that would let the client actively send their network geolocation

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Sec-CH-IP-Geo = "SG, SG-01, Singapore"
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Geolocation is sourced from a trusted cooperating server that looks up the IP address in a geo-IP database

Cooperating server should ensure that location is based on the client's IP address and not on any more specific sources like GPS or other detailed location data

Luckily I checked the weather today



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