

Protocol Notes

DNS observations

- Requested domains are visible in plaintext queries.
- Resolution behaviour can reveal which services a system is trying to reach.
- Repeated lookups can show dependency chains or suspicious patterns.

HTTP observations

- Requests can expose hosts, paths, and other request metadata.
- Cleartext application traffic is easy to inspect when encryption is not in place.
- Traffic inspection can explain the practical security value of HTTPS.

Why the lab matters

The lab is useful because it connects protocol behaviour to security reasoning. It shows how basic traffic inspection can surface meaningful information even without advanced tooling.