



# Best Practice for Logging at Internet-facing Servers



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# RFC6302 (BCP162) - Logging Recommendations for Internet Facing Servers

- As well as logging incoming IP addresses also log:
  - Source port number
  - Timestamp in UTC, accurate to the second, from a traceable time source (e.g. NTP)
  - The transport protocol (e.g. TCP/UDP) and destination port number.

# However research has revealed...

- Server software might not support logging source port
- Server software might require enabling of verbose logging to log source port
- Practically no server software enables (or even provides a sample configuration) logging source port by default
- Logging against a fixed time reference (e.g. NTP) is not necessary as long as time is recorded consistently
- Changing log formats could break existing tooling

# In Summary...

- Absence of source port information in logs is a big crime attribution/public safety problem (ref. Europol)
- Logging source port doesn't solve the problem of crime attribution but addresses a significant current challenge.
- Current BCP needs revision to address more of the practical issues with logging source port.

# Therefore:

“Approaches to Address the Availability of Information in Criminal Investigations Involving Large-Scope IP Address Sharing Technologies.”

<https://tools.ietf.org/html/draft-daveor-cgn-logging-02>



# Thank You! Any Questions?



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