

Thesis  
B.Sc.

Thesis  
M.Sc.

# Identifying web-enabled devices on Internet paths

## Motivation

HTTP fingerprinting is a class of application fingerprinting which has various use cases and implications such as network reconnaissance, vulnerability testing and auditing. Similar to existence of implementation differences between TCP/IP stacks of different OS vendors, HTTP servers can also be identified with assessing their implementations of the HTTP protocol [1].



<https://tinyurl.com/nx55a96>

The goals of this thesis is to carry out active measurements to identify web-enabled devices on the path to a population of known web-enabled Internet hosts (e.g. a web servers). The gained information then need to be evaluated and classified in terms of different identified fingerprints, distribution of web-enabled devices with regard to IPv6 deployment, ASes, countries, etc.

## Your Task

- Employ suitable active measurement techniques to detect web-enabled devices on Internet paths
- Classify identified fingerprints
- Evaluate the distribution of HTTP server implementations in terms of ASes, countries, IPv6 deployments, etc

## Contact

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## References

[1] [http://www.net-square.com/httpprint\\_paper.html](http://www.net-square.com/httpprint_paper.html)

