

Operating System Survey of Public Domains

Identifying Market Share Breakdown

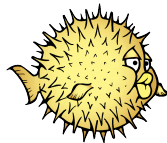
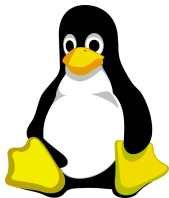
Chris Sobczak

Simon Fraser University

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This Survey

- ▶ Sampling public websites to determine the operating system used to run the site



Questions

- ▶ What operating system (OS) do most websites run?
- ▶ Do certain categories of sites more often run one OS compared to other categories?
- ▶ What other info might we get from these machines (services running, nginx v. Apache)?

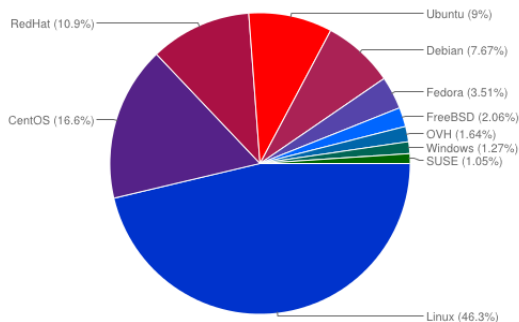
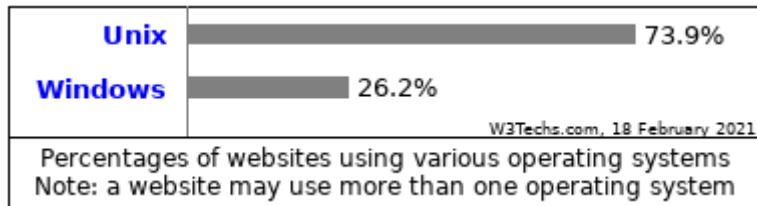


Figure: *Web Statistics and Market Share Charts at SolveDNS 2021*

Problem With Current Numbers

- ▶ Most of the statistics about operating system market share of servers is by:
 - The number of downloads from the vendor's website
 - Self reported counting during the install
 - Self reporting by domain owners



Purpose

- ▶ Will a survey validate the self reported statistics?
- ▶ Are open source server OSs under-reported since it is harder to count these machines (Ven and Verelst 2012)?



Outline

- ▶ Target Population: The entire internet (all public facing web servers)
- ▶ Sampling Frame: Index of all public facing domains that have content
- ▶ Sampling Unit: Domain
- ▶ Observational Unit: The physical computer/server

References



Ven, Kris and Jan Verelst (2012). “A Qualitative Study on the Organizational Adoption of Open Source Server Software”. [eng](#). In: *Information systems management* 29.3, pp. 170–187. ISSN: 1058-0530.



Web Statistics and Market Share Charts at SolveDNS (2021). [Online; accessed 18. Feb. 2021]. URL: <https://www.solvedns.com/statistics>.