

Hauptseminar Technischer Datenschutz

Paul Walther Chair of Privacy and Data Security

Learning Goals

- Methods and tools to familiarise with state of the art on research area
 - Finding literature
 - Efficient reading of literature
- Participation in scientific discourse
 - Writing about findings
 - Perform peer review
 - Presentation of findings



Timeline

11.10.22	13:00	Welcome meeting
17.10.22	23:59	Deadline for sending topic preferences
18.10.22	13:00	(Announcements of topics assignments)
24.10.22	23:59	Deadline for meeting with supervisor
25.10.22	13:00	Introduction to literature research
08.11.22	13:00	Introduction to scientific writing
09.01.23	23:59	Deadline for submission of written report
10.01.23	13:00	Introduction to peer review
16.01.23	23:59	Deadline for submission of reviews
31.01.23	23:59	Deadline revised version of report
??.02.23	13:00	Presentations



Timeline

 Times for deadlines and meetings can be found on the website of the TU Dresden

https://tu-dresden.de/ing/informatik/sya/ps/studium/seminars/hs-td

- Participation in defenses and colloquia announced on the website is strongly recommended.



Some numbers

- Written report

- English or German
- Around 8 pages (double column)
- LaTeX template can be found on course website
- Summarizes around 8 20 papers
- Presentation
 - English or German
 - 15 minutes for presentation (approx. 12 slides)
 - 5 minutes for Q & A

Origin No of nodes No of Indo Date REAN LIXENT 284772 449228 1999 LART 186347 233991 4.72082	and AS level information. Our over different from the methods used in
main reinur 13529 28080 712982	we directly map the routers found found in the BGP table through t and the BGP prefixes. Thus we d
One score theorem (a) level, it is used to making the according of the protect and one of startmath, which give results quite inside to the formation of the startmath, which give results quite inside to the startmath of the st	AS graph by a collapsing algorith and we avoid the potential errors many dispicient clusters of nodes belt to be reassingued. We use a BGP routing table due in July, in 2020 to build this owe map of the latenet containing 13 constructions, we associate every in advertising AS (i.e. the AS is public. This AS is not necessarily prefix because the originating AS aggregation [12] to entrow can be come where a prefix can be assoc- tively where a prefix con the assoc- bering due T ⁻¹ is a constant large we here the first AS found [13] con entropy the first AS found [13] con
III. INTERNET MAPS	the results found by Ba et al. in [
Snadying hatemet substances involves knowing the laterest topology. In this section we prevent the data that we use in our experiments and we explain here we build an overlay in order to relate the IP modes to their owning AS nodes.	Then we use our IP level infor Mercator to build a souter level description of the Mercator softwar found in [5]. Mercator can perfor- and thus can preperly assign in corresponding router. The results
A. Sources	203854 interfaces and 188347 and
As we want to obtain accurate and directly applicable methods, see the once and Aber full Interest may in the hubins of our study because they are not some parameted. Interact, we have not field "mesonicity and laborities we prefer so under, at the source in the theorem and the source and the source and fast one is a source level accurations rarpe which is the result of the source of a source level accuration and the source and and any source of the source of the source of the source of the source of a source level accurate and the source of the source of the source of the source of a source of the source of a source of the source of the source of the source of the source of the source of the source. This is merglight the comparison of the store of the source functions. The isotrophysical source is not constant, we have a source of a source of the source of the source of the source functions.	rue of multiple interfaces of 8.23 value observed in 10%. A first set picked asserved in 10%. A first set picturality be multiple interfaces ack interfaces, we search the long associate the originating our alter profiles to the interfaces. In this process, 120% interfaces in A.5, 37 of these interfaces we very class. It and A34 were class of 0.05% rue essenced in 0.135 here not used Internet Reserved in 0.05% between the observed in 0.05% in the observed in 0.135 here not used Internet Reserved in 0.05% rules and 0.05% or other 0.05% rules and 0.05% rules

R. Baliding the overlap

by Mercular to the ASe

lar as well as an AS level wells found in the table to the originating AS of the

rate collected by using udtiede interfaces to their rs. This yields an incidence duration for this difference

could not be manual to minteles (TDD) -- orbitions or 2 (1.4. single noises or pairs of noises). The second map is a sources or information because they are not accurate enough a router level map collected from our laboratory (called LSIIT least for our usage, Indeed Chen et al. have shown in [20] that and leasted in Hikith, Prancit by mine the Mercuter activate allows to 2% of the month in the RIPE database are either with and recard in Interes, trances by using the Mercard software about 62% of the records in the KIPE analysis are other you written by Govindan et al. and described in [5]. This map is or obsolete despite the fact that RIPE is actively maintained connected. The celleri lasted for months from And to here an include departure international efforts where the below connected. The context tasket true months from April to July up to date. Among the directored interfaces, many do recomp 2002, Uslike the '99 map, this one contains the IP addresses to ASes (as a few requests to an IRR shows) but some o of the restory' investions. The third and has one is an AS there such as the 1881 is a German research network is also of the restory interfaces. The third and last one is an AS. them such as the DSLLL'S German research activers (called level run collected by mateorizer [14] at the beginning of DEN are confirmed ant to belong to any AS. We much all level map collected by man-more [14] at the regiming of overy no company new ordering to the AS number 0 July 2002. We use it mainly to build an everlay with our '02 the antropolyed interfaces as belonging to the AS number 0 map but also for comparison with some router level results. We define the meaning of the AS number 0 ac "an IP address with AS member 0 dates not below to any AS". Depute the

Figure 1: Example for scientific article with two column layout

Table 1 contains some information about these many



Grading

- Weighting:
 - Report 60%
 - Presentation 25%
 - Review 15%
- Pass required for report and presentation
- Contacting your supervisor is required
- Common grading criteria:
 - Quality of literature research (coverage and relevance of papers)
 - Quality of discussion (identify and discuss commonalities, differences, and limitations)
 - Working style (autonomy and individual initiative)



Grading

- Core grading criteria for report:
 - Logical structure
 - Citation style and bibliography
 - Grammar and spelling
- Core grading criteria for presentation:
 - Slide quality (logical structure, usage of figures, conciseness of bullet points)
 - Talk quality (Duration, Q & A)
- Core grading criteria for review:
 - Thoroughness, constructiveness, specificity, politeness



Topics				
Supervisor	Торіс			
Elke Franz	Security Aspects of Network-on-Chip			
Elke Franz	Machine Learning in Malware Detection			
Elke Franz	Lightweight Cryptography			
Sebastian Rehms	Attack Graphs			
Sebastian Rehms	Privacy Policy Languages			
Sebastian Rehms	Privacy and Trust in Mobile Ad Hoc Networks			
Ghazal Begheri	Physical Security Threats			
Stephan Escher	Deceptive Design / Dark Patterns			
Stephan Escher	Survey Privacy Literacy and its impacts on Digital Behavior			
Stefan Köpsell	(TBA)			

Your own topic

A short topic introduction and initial literature references can be found on the TUD website



Submission of topic preferences

- Send an email to paul.walther@tu-dresden.de

- The email should contain:
 - 1. Your first and last name
 - 2. Your first and second preference of the listed topics (title)
 - or -

A short description of an arbitrary security or privacy-related topic that you find interesting (e.g. from recent news, from lectures)

Deadline for email: Monday, 17.10.2022, 23:59



Further notes

- OPAL will be used only for announcements (participants mailing list)
- The authoritative source for up-to-date notices as well as slides, links etc. is the course website
- Don't forget to get in contact with your supervisor as soon as a topic has been assigned to you

