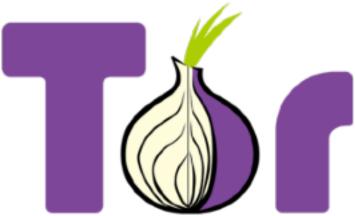


# Succinct Data Structures+PDA also useful for gathering statistics!



Aq	Action: Go 0 of 100 selected												
	IP Address	Label	Type	Available	Subnet 1 △	Device	Mac address	Last edited	Notes				
	3.3.3.1	(None)	(None)	•	3.3.3.0/24	app001-04	(None)	Oct. 12, 2012, 6:38 a.m.	(None)				
П	3.3.3.2	(None)	(None)	•	3.3.3.0/24	app001-04	(None)	Oct. 12, 2012, 6:38 a.m.	(None)				
П	3.3.3.3	(None)	(None)	•	3.3.3.0/24	nh-fujiteu-02	(None)	Oct. 12, 2012, 7 a.m.	(None)				
П	9.0.0.1	(None)	(None)	•	9.0.0.1/24	nh-demo-42	(None)	Oct. 4, 2012, 2:45 p.m.	(None)				
	9.0.1.1	(None)	(None)	•	9.0.1.0/24(ABC Inc)	app001-04	(None)	Oct. 12, 2012, 6:38 a.m.	(None)				
П	9.0.3.33	(None)	(None)	•	9.0.3.32/28	sh-demo-06	(None)	Oct. 4, 2012, 1:15 p.m.	(None)				
	9.0.3.49	(None)	(None)	•	9.0.3.40/20	sh-demo-00	(None)	Oct. 4, 2012, 1:16 p.m.	(None)				
	9.0.3.50	(None)	(None)	•	9.0.3.48/28	sh-demo-06	(None)	Oct. 4, 2012, 2:37 p.m.	(None)				
	9.0.3.51	(None)	(None)	•	9.0.3.48/28	app001-04	(None)	Oct. 12, 2012, 6:56 a.m.	(None)				
П	9.0.3.52	(None)	(None)	•	9.0.3.48/28	app001-04	(None)	Oct. 12, 2012, 6:57 a.m.	(None)				
	9.9.0.1	(None)	(None)	•	9.9.0.0/16	nh-hw-11	(None)	Oct. 12, 2012, 6:25 a.m.	(None)				
	9.9.0.2	(None)	(None)	•	9.9.0.0/16	nh-hw-11	(None)	Oct. 12, 2012, 6:25 a.m.	(None)				
	9.9.0.3	(None)	(None)	•	9.9.0.0/16	nh-fujitsu-02	(None)	Oct. 12, 2012, 7:01 a.m.	(None)				

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## Our work w/ aggregate location time-series

### 2. Quantify how much privacy do aggregates leak? [2]

### 1. Mobility analytics using aggregate locations [1]

### 3. Membership inference attacks users contributing to aggregates [3]

#### Location Data. In ACM SIGSPATIAL 2016

[1] A. Pyrgelis, G. Ross, E. De Cristofaro. Privacy-Friendly Mobility Analytics using Aggregate

[2] A. Pyrgelis, C. Troncoso, E. De Cristofaro. What Does The Crowd Say About You? Evaluating

#### Aggregation-based Location Privacy. In PETS 2017

[3] A. Pyrgelis, C. Troncoso, E. De Cristofaro. Knock Knock, Who's There? Membership Inference

on Aggregate Location Data. In NDSS 2018. Distinguished Paper Award.