Writing an Abstract (Research Conference)

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Plan

- Introductions (10 minutes)*

- The requirements (5 minutes)

- Abstract structure (10 minutes)

- Guided freewriting (15 minutes)

- Pair/group work (peer feedback) (10 minutes)

- Questions/comments (10 minutes)

*Approximate timings

Abstract requirements

- Should be between 200-350 words

- It should contain the following sections:

  – Title

  – Author(s)

  – Type of contribution: (a) presentation; (b) poster; (c) performance; (d) video screening with commentary

  – Names of supervisory team

  – Degree start date

  – Stage of research where applicable (e.g. registration, transferred, writing up)

  – Department

  – Indicate that the abstract has been reviewed and approved by your supervisory team

Abstract

Your language needs to be concise and precise

Think about:

- What are you doing?

- Why are you doing it?

- What is happening?

- What have you found?

TinCan: User-Defined P2P Virtual Network Overlays for Ad-hoc Collaboration
Pierre St Juste, Kyuho Jeong, Heungsik Eom, Corey Baker, Renato Figueiredo

Virtual private networking (VPN) has become an increasingly important component of a collaboration environment because it ensures private, authenticated communication among participants, using existing collaboration tools, where users are distributed across multiple institutions and can be mobile. The majority of current VPN solutions are based on a centralized VPN model, where all IP traffic is tunneled through a VPN gateway. Nonetheless, there are several use case scenarios that require a model where end-to-end VPN links are tunneled upon existing Internet infrastructure in a peer-to-peer (P2P) fashion, removing the bottleneck of a centralized VPN gateway. We propose a novel virtual network — TinCan — based on peer-to-peer private network tunnels. It reuses existing standards and implementations of services for discovery notification (XMPP), reflection (STUN) and relaying (TURN), facilitating configuration. In this approach, trust relationships maintained by centralized (or federated) services are automatically mapped to TinCan links. In one use scenario, TinCan allows unstructured P2P overlays connecting trusted end-user devices — while only requiring VPN software on user devices and leveraging online social network (OSN) infrastructure already widely deployed. This paper describes the architecture and design of TinCan and presents an experimental evaluation of a prototype supporting Windows, Linux, and Android mobile devices. Results quantify the overhead introduced by the network virtualization layer, and the resource requirements imposed on services needed to bootstrap TinCan links

General statement

The problem

Trying to solve the problem

Solution

Contents of paper

Abstract

The basic approach and methodology, usually in one sentence

The conclusion (briefly) and the broad implications of it

WHY, HOW, WHAT, SO WHAT

The reason behind the research being done

The main findings (results) in very few sentences

Things to consider

- Don't use abbreviations and acronyms

- Be clear and concise

- Formal academic tone (consider your research area)

- Vocabulary

- One sentence conclusion

Freewriting

- Helps to gather ideas

- Warms up the brain

- Breaks down writer's block

I wrote, "I can't think of what to write," for two pages. After that, I wrote an equation to allow for time travel! Brilliant!

Freewriting

Write in complete sentences.

Write down the ideas that are in your head, even if they're not related to your topic.

Don't worry about grammar and spelling.

Creating a title

- Clarity

- Brevity

2 minutes

- What are you researching?
— What key words are necessary?

- How are you researching it?
— Will putting the method in the title enhance it?
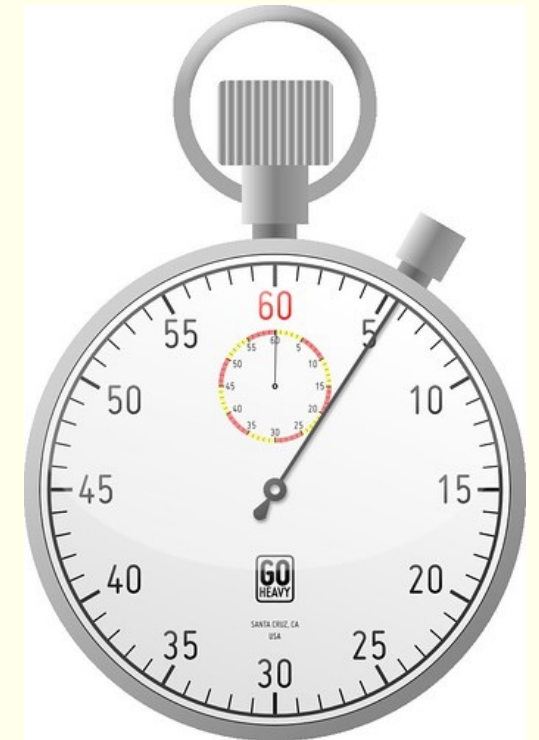
Aim of your research

2 minutes
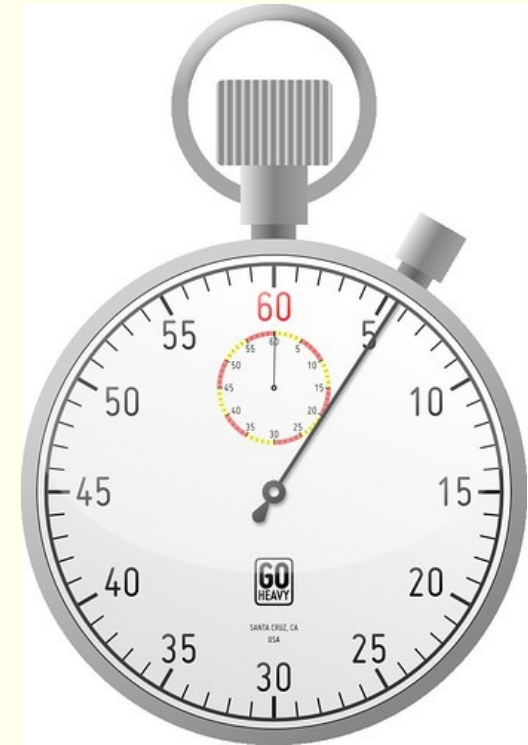
Explain the primary aim or purpose of the study

What is it that you're going to do?

For example:

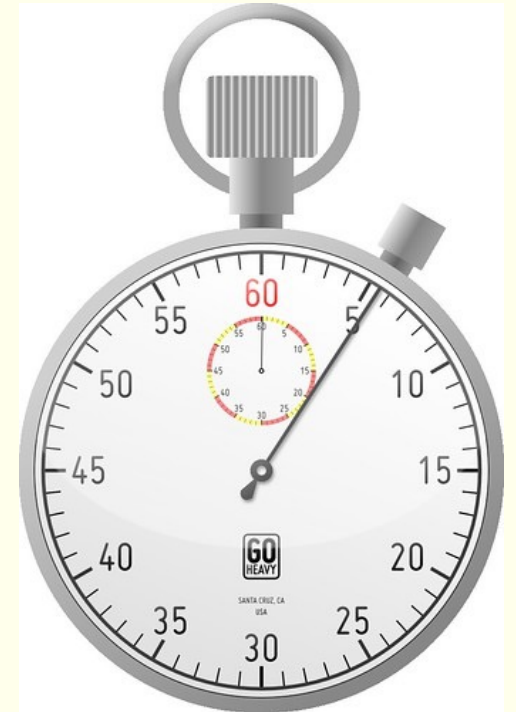| investigate	compare	develop	determine	examine	replicate	evaluate

Research method(s)

- What is your method?

- Briefly explain the method

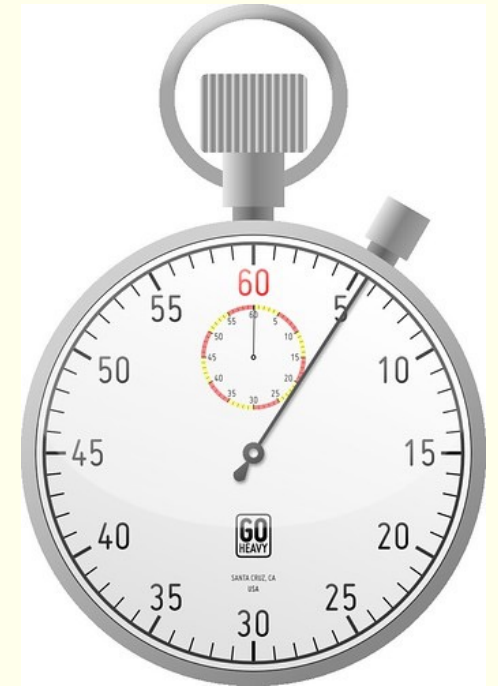— What is it that we need to know about the method?

2 minutes

Current findings/Expected contribution

- What have you found out so far?

  2 minutes

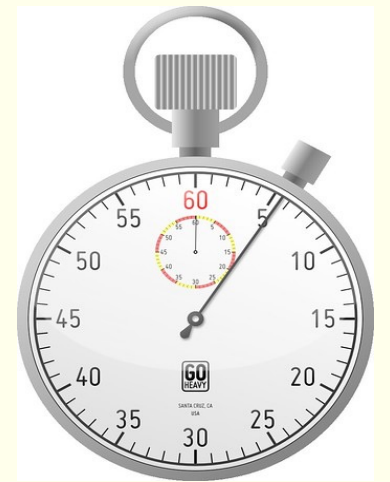- What contributions do you expect to make to your research area?

Research in a Changing World

How does the 'changing world' interact with your research?

2 minutes

- How might this occur?

- In what ways might your research respond to this changing world?

- How do you know this?

- Will there be an impact?

- Are you able to measure the impact?

Questions/Comments