

What is security?

Tetsuo Handa

▶ Self-introduction

- ▶ A dreamer acting as "Kumaneko Sakura" in Japan.
 - ▶ Because I love the world of "Card Captor Sakura".

▶ My character

- ▶ Very cautious and careful.
- ▶ Good at detecting problems based on my intuition.
- ▶ Can say my opinion to anyone.
- ▶ Cannot put up with jobbery, overstatement, exploitation etc.

- ▶ My involvement with Open Source Software
 - ▶ Started hobby programming when I was 15 years old.
 - ▶ Developed programs for MS-DOS/Windows and put them public on the Internet.
 - ▶ A Linux kernel developer from 2003.4 to 2012.3.
 - ▶ Developed TOMOYO (an access control module for Linux kernel).
 - ▶ Had a lot of troubles getting TOMOYO into mainline, due to large departure from traditional/conventional way of security.
 - Confrontation between SELinux and AppArmor.
 - ▶ A technical support member at NTT Open Source Software Center since 2012.4.
 - ▶ Troubleshooting Linux systems by utilizing the technologies and know-how accumulated through the Linux kernel development.

▶ Introducing TOMOYO

- ▶ Not only a tool for restricting access requests, but also a tool for understanding the internal of Linux systems.
 - ▶ Suitable for studying Linux.
- ▶ Want to be honest.
 - ▶ Unique implementation which reflects Kumaneko's thinking on security.
- ▶ Aimed for usability and safety.
 - ▶ I don't want to overstate, but TOMOYO is meant to be very thoughtful.
- ▶ Please try TOMOYO!
 - ▶ Most of materials are publicly available in both Japanese and English.

▶ My thinking on security

- ▶ While I mainly address security related problems, I don't fit in conventional security.
 - ▶ I have contrasting concept on security compared to normal security experts.
- ▶ Working as an instructor at "Security Camp" (a training program in Japan) since 2011.
 - ▶ I'm trying to teach:
 - ▶ Whom is that security for?
 - Egocentric security does not solve problems.
 - ▶ Lack of imagination makes things worse.
 - ▶ The importance of understanding.
- ▶ Quite few people can consider "Why?" on security.
 - ▶ One of reasons will be "Cannot consider without knowing the internals."

▶ What is security?

- ▶ I can't think that "professional" is a man who tries to meet whatever requests without any criticism.
 - ▶ I believe that "professional" is a man who can make objections to irrational things.
- ▶ The mistake of hiding the internals.
 - ▶ People assume that "everything is easily achievable" which hides the real problems and costs.
 - ▶ Yielding uninformed users, flooding with irrational requests.
- ▶ The gloom of encouraging paranoia, the light of encouraging heartiness.
 - ▶ It is not the military power or legislation that determines security, but how the individual considers and behaves.