

Twin Fire

Exploring Disruptive Networking without Disruption

FIRE meeting, Brussels, Feb 14, 2007

Christian Tschudin, UBasel, Switzerland

“More is not a waste”

- a) Virtualization vs Redundancy
- b) Twin Fire
- c) Best-Practice

Virtualization: a Panacea?

Virtualization still implies research

- Crosstalk
- “Self-Interference”:
 - have to host the monitoring inside the test environment itself
 - “everything is (must be) IP”
- Is this really desired, or just poor man’s testbed?
- Avoid Heisenberg.

→ good reasons to separate “system under test” from the testing.

Twin Fire

Have redundancy down to the hardware layer, complete separation



- “Ego”: **System under test**
 - dedicated, strict allocation of experiments
- “Alter Ego” can be used for
 - head-to-head comparison of 2nd SUT
 - or monitoring
 - or remote config if SUT breaks
 - or shared PlanetLab style slices
 - or ...

Twin Fire just a Dream?

“Twin Fire” not a nice-to-have, it’s best-practice

- Operators having dial-in config path for critical infrastructure
- Sensor networks for monitoring sensor networks testbed as-easy to deploy as sesonrs themselves

