



STUDIEREN SIE
AN DER HSR,
UND DIE ZUKUNFT REISST SICH UM SIE

HSR CHALLENGE PROJECT

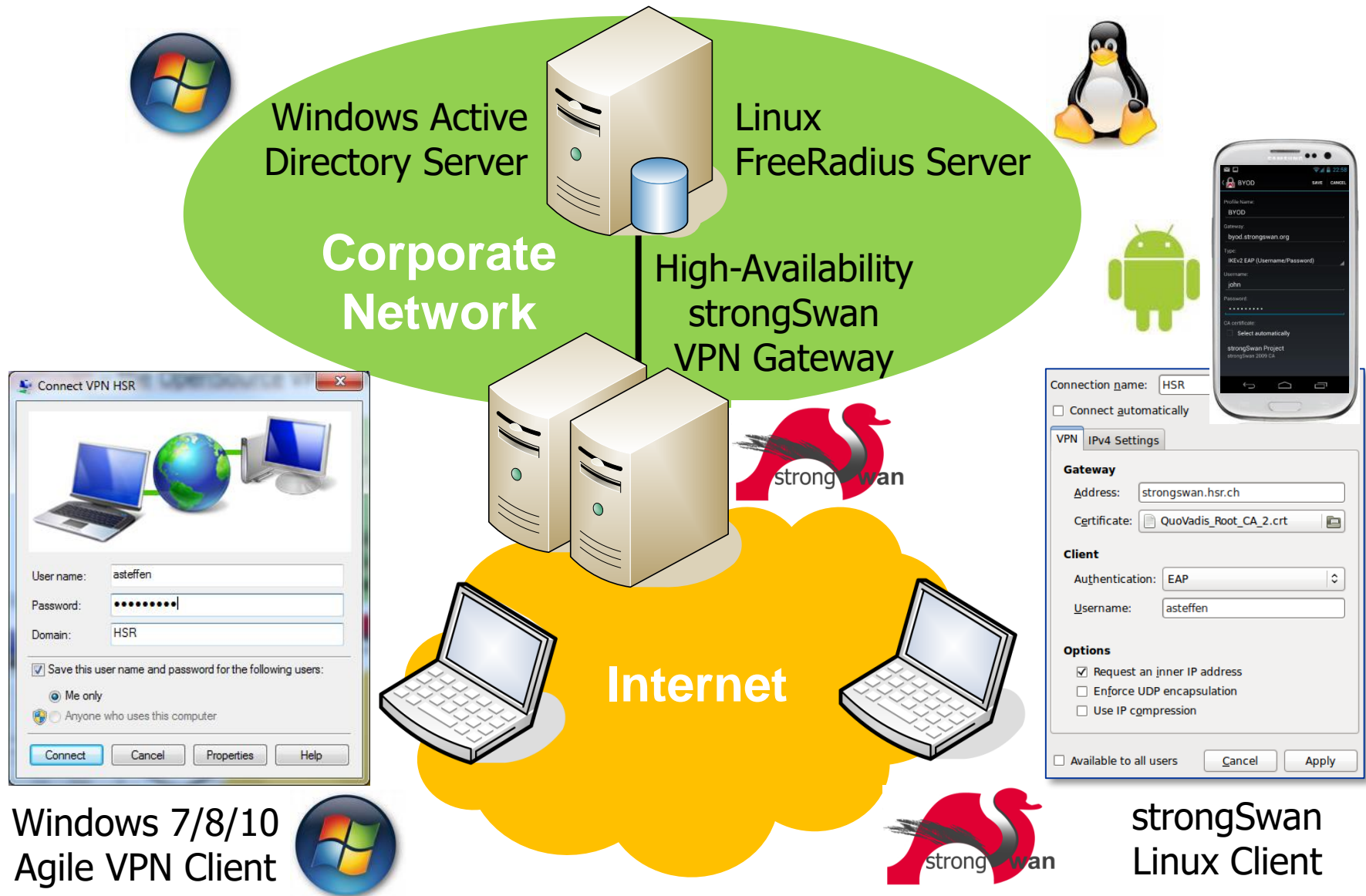


HSR

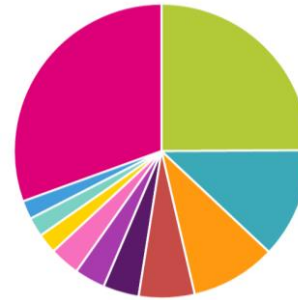
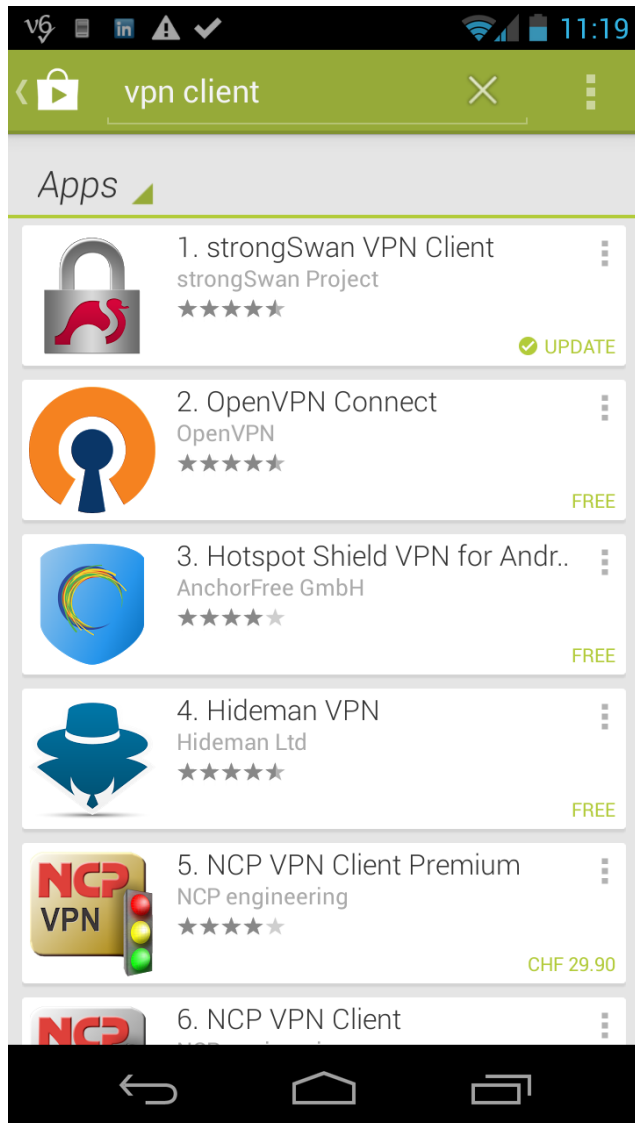
HOCHSCHULE FÜR TECHNIK
RAPPERSWIL

FHO Fachhochschule Ostschweiz









strongSwan – the OpenSource VPN Solution



Free Download from Google Play Store



October 16, 2016:
21'816 installations

<input checked="" type="checkbox"/>		United States	5,434	24.91%
<input checked="" type="checkbox"/>		China	2,640	12.10%
<input checked="" type="checkbox"/>		Germany	2,043	9.36%
<input type="checkbox"/>		United Kingdom	1,333	6.11%
<input type="checkbox"/>		Canada	858	3.93%
<input type="checkbox"/>		Russia	735	3.37%
<input type="checkbox"/>		France	722	3.31%
<input type="checkbox"/>		Netherlands	477	2.19%
<input type="checkbox"/>		Australia	465	2.13%
<input type="checkbox"/>		Japan	445	2.04%
		Others	6,664	30.55%

strongSwan KPI

- **100%** developed @ HSR in Rapperswil
- **Goal:** Best and most complete implementation of the **IPsec** standard using the **IKEv2 Internet Key Exchange** protocol.
- Ready for the **post-quantum age** with lattice-based **New Hope** key exchange and **BLISS** signature algorithms.
- **strongSwan users and customers:**
AT&T, Cisco, Clavister, Ericsson, Freescale, Google,
Intel, Nokia, Samsung, secunet, Siemens, Sophos,
Swisscom, Swiss Post, Symantec, Uber
U.K. Government, U.S. Government, ...

Analyze

Malware Analysis



Reverse Engineering

01100
10110
11110



Wireless Security



Network Security



Applied Crypto



Web Security



Analyze

Linux Security



Database Security



SS7 PBX



Secure
Programming



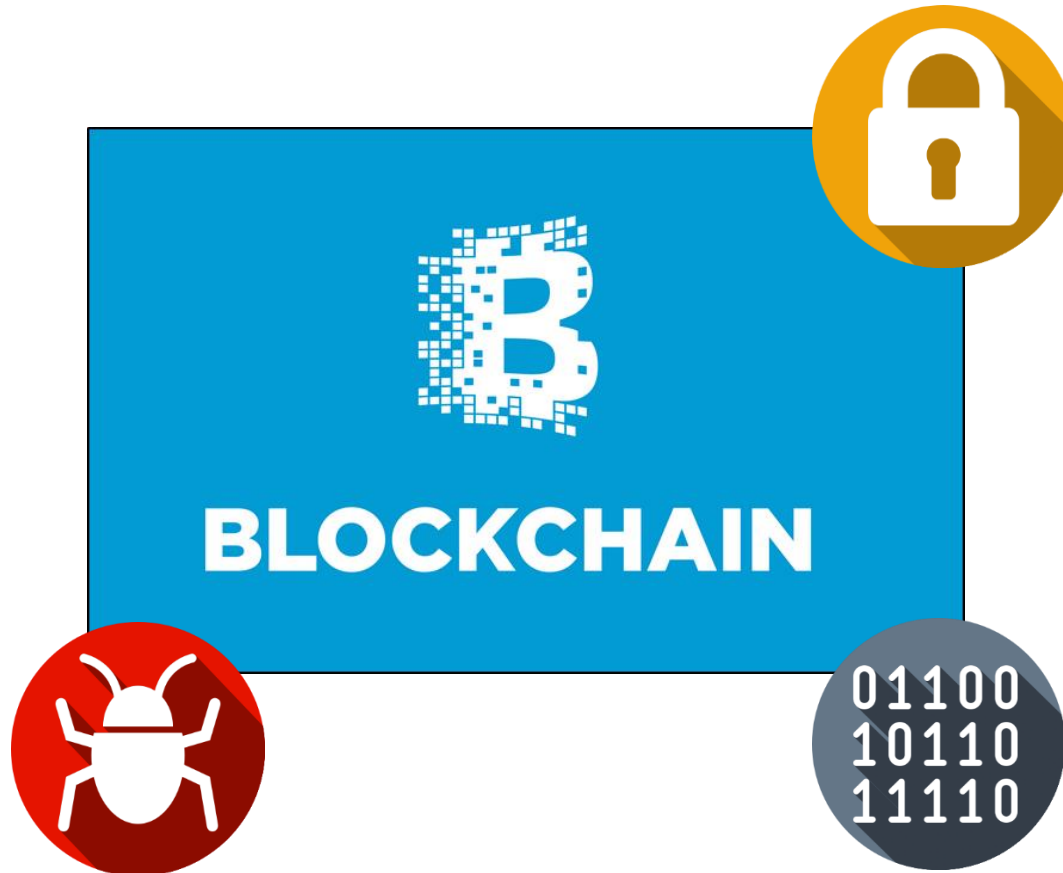
OSX, iOS Security



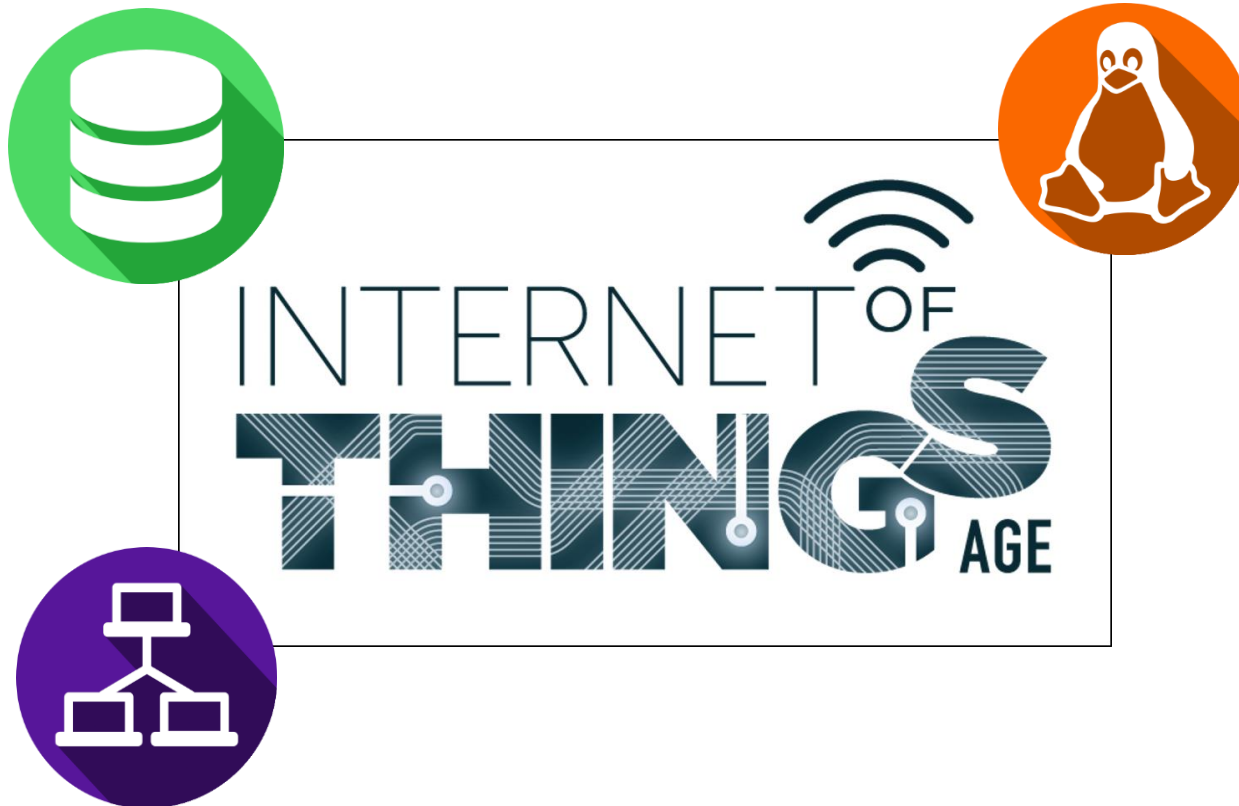
Windows
Security



■ Blockchain Vulnerabilities



■ Internet of Things Vulnerabilities



Revised Bloom's Taxonomy of Knowledge

■ HSR Challenge Project

Creating

Evaluating

Analyzing

Applying

Understanding

Remembering



Cyber Security Challenge 2016 National Team



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HSR CHALLENGE PROJECT