

Top 5 Ways Into A Data Center

*without being destructive

Ryan Jones, Spiderlabs/Trustwave

OR

Good job! You spent a million dollars on your network security and pissed me off. So I walked into your data center and stole all your hardware.

Agenda

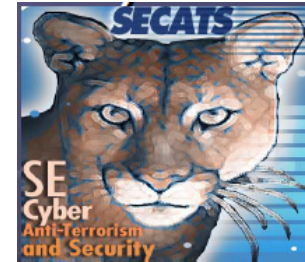
- A little about me
- The Top Physical Ways to Breach a Data Center
 - The top 5
 - Real world examples
 - Fixes
- Q&A

A Little About Me

Ryan Jones

Employment History:

- Sr. Security Consultant, Trustwave Spiderlabs
- Team Lead, Security Services Alternative Technology
- Sr. Security Consultant, IBM Security & Privacy
- Founder, Safe Harbor
- Sr. Security Architect, US West
- Security Admin & Network Design, BuyItNow.com



Security Accolades

- Created Risk Management and CSO structure for many fortune 500
- Training and Expert Technical Assistance for FBI
- Technical Producer & Cast member for "Tiger Team"
- Co-Creator of Exotic Liability podcast



THE TOP 5

(attempt only with permission – educational use only – don't call me for bail)

The Top 5 – #5

“The walls don’t go all the way up”

- Drop ceilings are used for decoration, but also hide the entry point
- Usually a problem created during building construction

When you have a view like this....



You'll get a view like this....



Top 5 - “The walls don’t go all the way up”

- Drop in on what you want
- If you can’t go over, try going under



- Be careful what you hold onto
 - Crashing through a ceiling and landing on a desk SUCKS

Top 5 – “The walls don’t go all the way up”

– HOW TO FIX

- Pick an area that has solid walls to the floor and to the ceiling
- If not possible, dry wall is cheap

This is what it SHOULD look like....



The Top 5 - #4

“ Hinge Science”

- Doors (and windows) installed with the hinges on the outside of the data center
- Another common mistake during building construction
- Contractors don't understand security. You do. Pay attention
- Obviously the very expensive biometric access control device is no longer an issue thanks to pliers and a hammer

Top 5 – “Hinge Science”



Top 5 – “Hinge Science”

- Some doors are heavier than they look
- Make as little noise as possible when using tools to pop hinges
- Glass is very breakable
- Make sure you know where the door goes

Top 5 – “Hinge Science”

– HOW TO FIX

- After construction do a walkthrough with the lead contractor
- Leased space – work with building management. You are their customer.

The Top 5 - #3

Tailgating

- Not original, not difficult, will work almost everywhere
- Language barriers is not usually a concern
- People want to avoid conflict
- Timing is key. Observation is important

Top 5 - Tailgating

Tailgating

– HOW TO FIX

- User training – make sure to empower your employees
- Man traps
- Doors that are not “slow” to close

The Top 5 - #2

“ Plates and Pins”

- Unprotected door latch areas
- Large gaps between double doors
- Shimming is way easier than removing a door or lockpicking

Top 5 – “Plates and Pins



Top 5 – “Plates and Pins”

Common tools



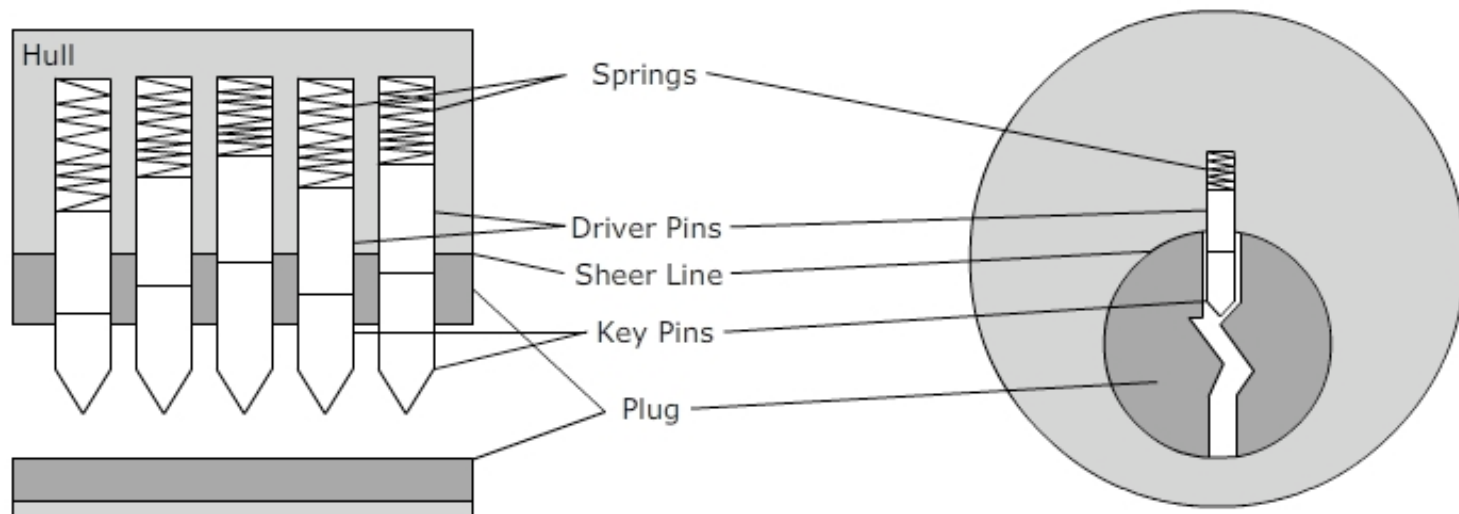
Top 5 – “Plates and Pins”



Top 5 – “Plates and Pins

Locks

Protecting hundreds of thousands of dollars with a
THREE dollar lock



Top 5 – “Plates and Pins”

- Lock picks are cheap and easy to get ahold of
- Plenty of learning available online and in books/videos
- A little bit of practice goes a long way

Top 5 – “Plates and Pins”

– HOW TO FIX

- Metal plates over gaps between double doors
- Metal plates covering latchways
- High security locks and cores
- Biometric devices

The Top 5 - #1

- “Something You’re Not”
 - Social engineering requires a little bit of research and a fair amount of confidence
 - People want to believe other people
 - What cover story is most believable for the target?

Top 5 – “Something you’re not”

- Be aware
 - Sometimes you will get stuck in a lie that you have to stick with
 - Be prepared to learn on the fly
 - Google and smartphones are your friend
 - Manuals are good

Top 5 – “Something you’re not”

– HOW TO FIX

- Train your users and employees
- Stick with procedure
- Proper identification
- Don’t be afraid to validate what someone is saying

Top 5 Ways into a Data Center

THANK YOU!!

Q&A