

- fuck my centrifuges
- the most important cyber attack in history
 - except when it wasnt
- how america invented a new form of warfare to prevent iran from reaching the last new form of warfare, or:
 - how i learned to stop worrying and destroy some nuclear plants

Making New Friends

Gholam Reza Aghazadeh (غلامرضا آقازاده)

- Bachelors of Science in Accounting and Computer Engineering from the University of Tehran
- 1979, active opposition member
- 1980, Deputy Foreign Minister of Economic Relations and Finance
- 1982, State Minister of Executive Affairs
- 1985, Minister of Petroleum
- 1997, Vice President for Atomic Energy - Head of the Atomic Energy Organization
- 2010, unemployed
- he has held no significant roles since



Choose Your Fighter



United States

United States of America

- Population: 308,745,538
- Allied with Israel
- Doesn't fuck w/ Post Revolution Iran
- Nuclear power since 1945
- Nuclear Non-Proliferation Treaty Signatory



Leaders:

- President George W. Bush (2001-2009)
- President Barack Obama (2009-2017)

Israel

Israel

- Population: 7,695,100
- Allied with the US
- Believes Iran is an existential threat
- Nuclear power since 1967*
- Not a Nuclear Non-Proliferation Treaty Signatory



Leaders:

- Prime Minister Ariel Sharon (2001-2006)
- Prime Minister Ehud Olmert (2006-2009)
- Prime Minister Benjamin Netanyahu (1996-1999, 2009-2021, 2022-Present)

Iran

Islamic Republic of Iran

- Population: 75,149,669
- Does not fuck w/ Israel
- Does not fuck with the US post revolution
- Not a nuclear power
- Nuclear Non-Proliferation Treaty Signatory



Leader:

- President Mahmoud Ahmadinejad (2005 - 2013)

How To Make A Nuclear Bomb

To be friends with Aghazadeh we need to understand nuclear technology

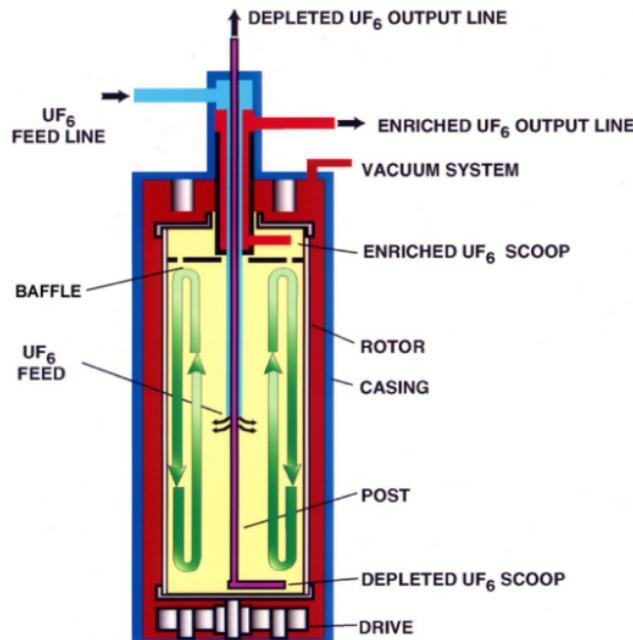
In order to create nuclear energy, for any reason, requires enriching uranium

To enrich uranium, you take Uranium 238 and make it Uranium 235

Isotopes can be separated through a centrifuge

What the Fuck is a Centrifuge

SCHEMATIC DIAGRAM OF A GAS CENTRIFUGE



Source: J.M Whitaker, Oak Ridge National Laboratory

How To Make Stop A Nuclear Bomb

Why don't we just nuke Iran?

- That would mean war ;-;
- Every non nuclear country would immediately get nukes

Why don't we bomb the facility?

- "We don't want the smoking gun to be a mushroom cloud"
 - 'You invaded your last Muslim country'
- Its underground

What about economic sanctions?

- The US implemented harsh economic sanctions
- They was not successful

What about a cyber-weapon?

■ Building A Boat Worthy of the Rubicon

Initial Attack Vector

Step 1: get on the Windows machine via a USB using a zero day

Step 2: detects security software, architecture and operating system, kill dates

Step 3: injects itself into trusted process

Step 4: elevates privileges using one of two zero days

Step 5: Establish persistence through signed drivers

Spreading The Worm Like RFK's Brain

Step 6: Spread

Remote Drives

Removable drive LNK 0 day

Autorun Configuration File

Network Infections

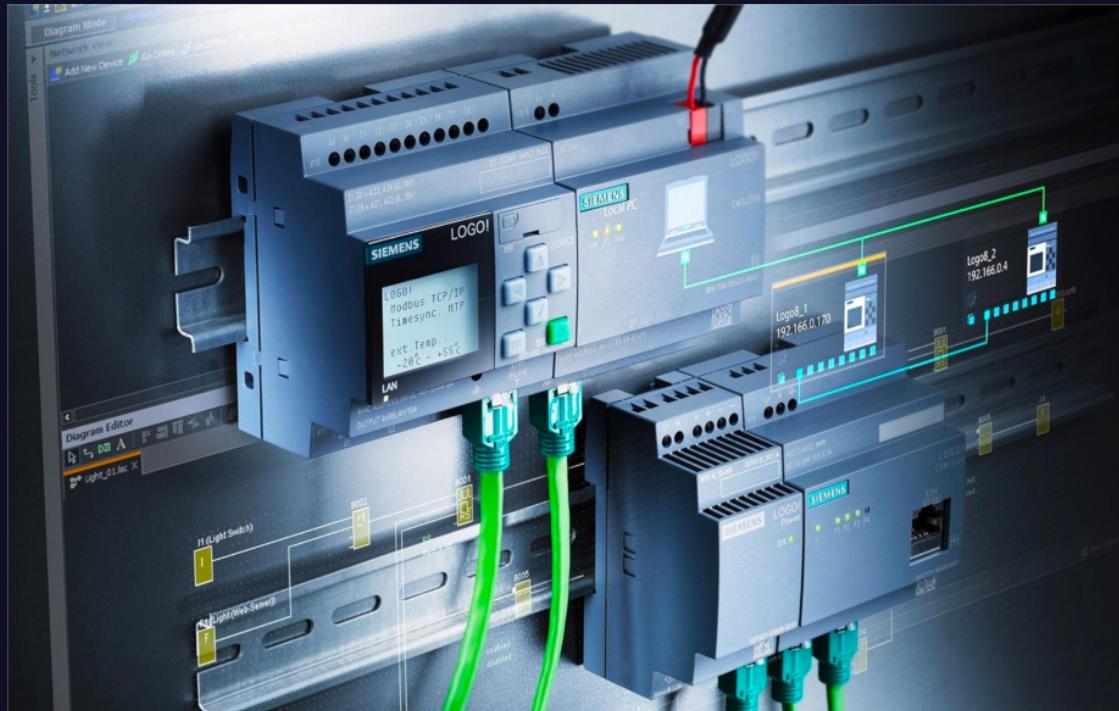
Peer to Peer Communication via Remote Procedure Call (RPC)

Network Shares via Windows Management Instrumentation (WMI)

Infection over Server Message Block (SMB)

Print Spooler 0 Day

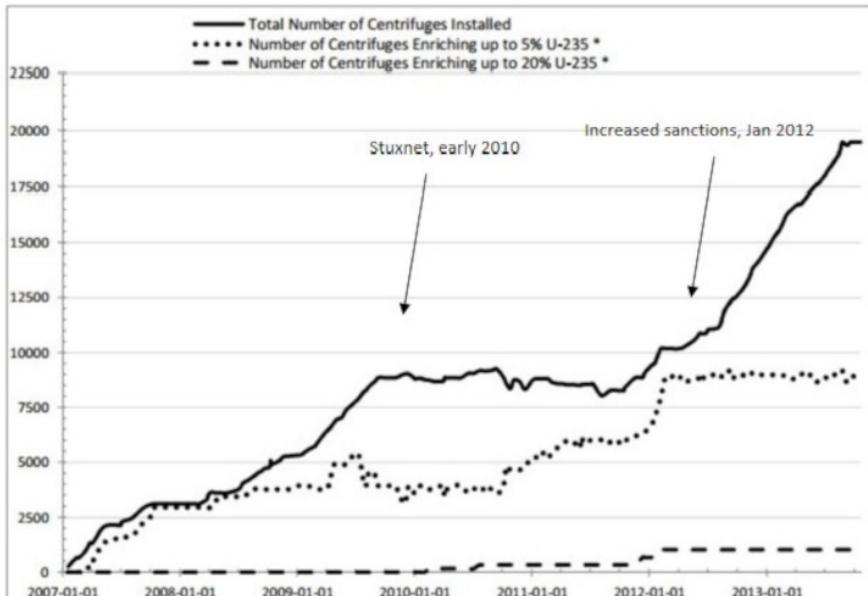
Step7



Except When It Wasn't

ANNEX II

Figure 1: Status of Centrifuges in Iran



Note 1: Centrifuges involved in R&D activities are not included.

*Not all of the centrifuges fed with UF₆ may have been working.

No One Will Ever Know

according to the NSA the Israeli's shit the bag

Bloodless Operation



Bloodless Operation



