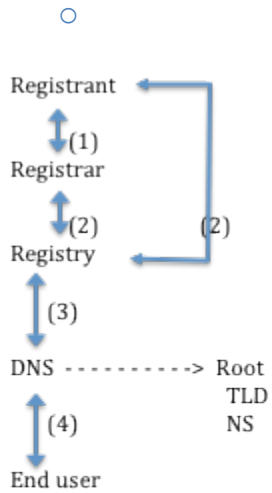


DSSA -- Threats

- **Roy**
 - **Natural disaster**
 - **Acts of war/terror**
 - **Bugs**
 - **DOS**
 - **Spam**
 - **Botnets**
 - **Cache poisoning**
 - **Kaminsky**
 - **Kaspureff**
 - **Spoofing**
 - **M+M**
 - **Fast Flux**
 - **Operational errors**
 - **Supporting infrastructure**
 - **Hackers**
 - **Homogeneity**
 - **Content provisioning exposure**
 - **DNSSEC private key exposure**
 - **Question from the group: "What is the perspective of threat description?"**

DSSA -- Threats

- **Katrina**



- 1) Compromised credentials Phishing, Key logger a.o.
- 2) Compromised credentials, DDOS
- 3) DDOS
- 4) Spoofing, poisoning

- ALL - MIM

DSSA -- Threats

- ???
 - Poor design (hardware and software)
 - Natural disasters
 - Bad players
 - Organized crime
 - Geo-political groups
 - Rogue elements
 - Nation states
 - Implementation errors (hardware and software)
 - Operational errors
 - Scalability issues
 - Rapid change
 - Informality of some processes
 - Inadequate funding (for infrastructure, training, etc.)
 - Lack of visibility and understanding by decision-makers
- Olivier
 - Physical
 - Terrorism
 - Facility security
 - Single point of failure
 - Topology

DSSA -- Threats

- Service providers
- Software
- Hardware
- Geo location
- Infrastructure (electricity, fiber, etc.)
- Targeted attack
 - DDOS
 - Hacking/penetration
 - Data poisoning (MITM, Cache)
- Alternate DNS roots
- DNS blocking
- Political
 - State-sponsored
 - Hacktivism
- Mark
 - Leverage the DNS and unique identifiers (such as botnets, denial of service attacks, social engineering attacks) for fraud, malicious conduct or route-hijacking attacks
 - Threats on the underlying infrastructure. May include:
 - TLD and registrar failure
 - Disasters
 - Authority or authentication compromise
 - Government interventions

DSSA -- Threats

- (FY12)
 - Needs to border DNS
 - Cache poisoning attacks
 - Recursive vs authoritative nameserver attacks
 - Reflection attacks
 - Vulnerability of DNS software, OS, etc.
 - DDOS attacks
 - Physical disasters
 - IDN attacks