

Operational errors Informality of some processes	
	Lack of visibility and understanding by
Managerial choices/issues	decision-makers Inadequate funding (for infrastructure, training, etc.)
Implementation errors (hard	
Bugs	
	opology
Single point of failure	Service providers
	Software
	lardware
	Seo location
	nfrastructure (electricity, fiber, etc.)
Supporting infrastructure (insufficient SLA's, support, etc)	
Homogeneity (software, hardware, etc) small gene pool, one vulnerability could have broad impact	
Poor design (hardware and software)	
Vulnerability of DNS software, OS, etc.	
- Scalability issues	
Content provisioning exposure eg Akemi if credentials leak, there's broad exposure registrar account credentials	
Split DNS	
DNSSEC private key exposure	
Organized crime	
Bad players Geo-politic	cal groups
Rogue ele	
Nation states	
Threats that leverage the DNS	
ayers Threats against the underlying infrastructure	
emporal Attacks on the protocol layer below the DNS	
Direct vs indirect	
so the zhang	e several recent papers by eff, g and others on isp monitizing etic return/content modification
No si	ngle authoritative DNS (eg alternate root- rs) , lack of DNS response integrity
altern	ate root, strings appearing in other gurations not supported in the global root
Possi	ble extensions of carrier-grade NAT
RFC - 3833 user, app, OS, ISP, DNS, registrar, registrant, registry threat analysis to the domain name system	
	Picture
Question from the group: "What	
perspective of threat description	Registrar <> Regisrty) Compromised credentials, DDOS
	Registry <> DNS) DDOS
	DNS <> End user) Spoofing, poisoning
	ALL) MIM (Man in the middle)