LOUISVILLE-JEFFERSON COUNTY METRO GOVERNMENT METRO TECHNOLOGY SERVICES



Presenters

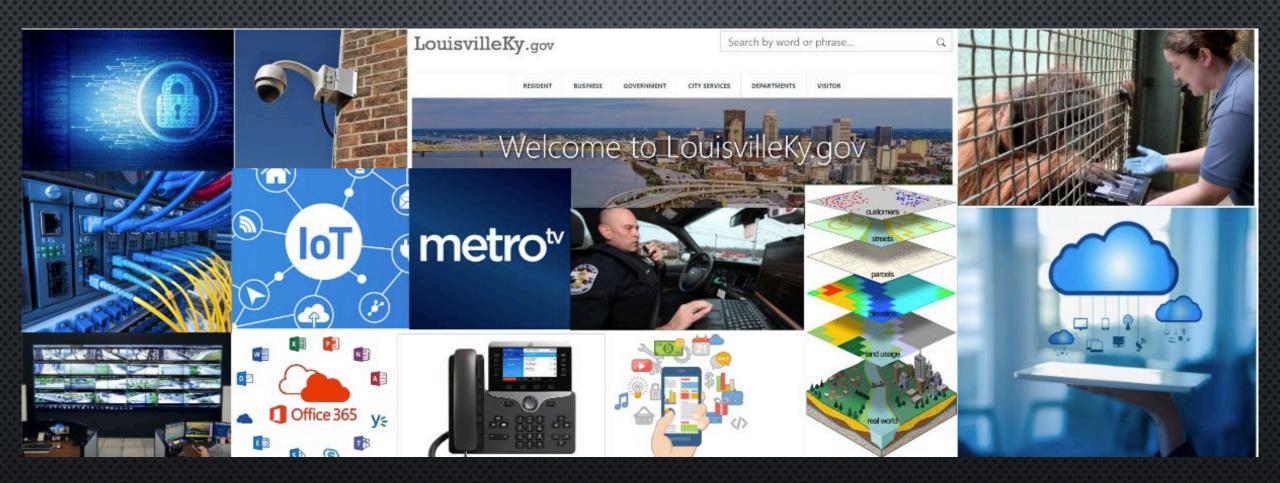


Chris Seidt
Executive
Director/Chief
Information Officer
22 Years with LMG



James Meece
Chief Information
Security Officer
9 Years with LMG
(Retired) Cyber Officer KYARNG

What we do



By the Numbers

21,000 IP connected devices

2.5 PB of data stored

3 data centers

6,000 users

128 linear miles of fiber optic cable

41,000 help desk calls per year

82 fulltime employees

20 contractors

185 connected buildings



216 Million Annual Cyber Security Events

Our Approach to Cyber







Confidentiality

Integrity

Availability

DEFENSE IN DEPTH
CONTINUOUS IMPROVEMENT

Continuous Improvement

FY 15-17 FY 18-19 FY 20-21 FY 22-23 FY 24+ **Cloud Security** COVID! Password free Intrusion Data Strategic protection **Protecting** encryption login partnerships Web security telework Malware Reassess and **Email security** Vulnerability • 24X7 analysis refine security Modern **operations** Critical architecture management antivirus Disaster Benchmark Digital application Mobile device forensics against peers assessments recovery Vendor risk management Continuity of Tabletop Rogue device Admin Government exercise detection management Continuous Policy and Zero trust Kentucky account protection assessments **Email spoofing** Cyber Threat governance review prevention Intelligence Cooperative Incident Asset detection and (KCTIC) management response

Threat Landscape

What are the top cyber threats that we face as a city government?



Ransomware and Scareware



Zero Day Exploits



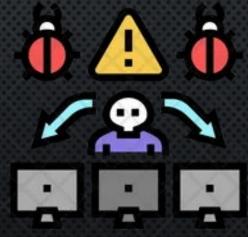
Data Breach



Denial of Service Attacks



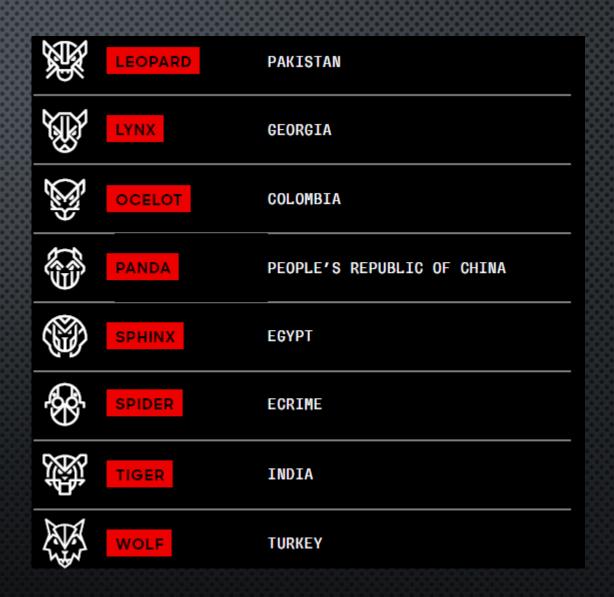
Social Engineering



Insider Threats and Human Error

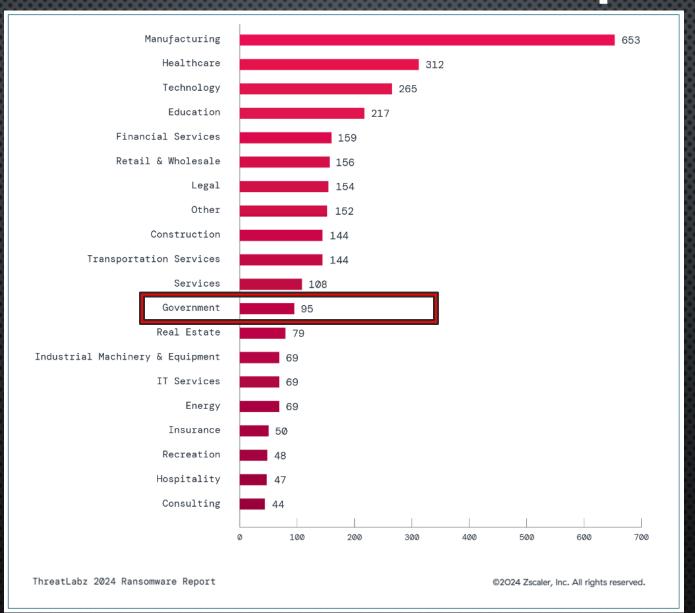
Who is behind these attacks?

Adversary		Nation-State or Category
	BEAR	RUSSIA
	BUFFALO	VIETNAM
***************************************	CHOLLIMA	DPRK (NORTH KOREA)
**	CRANE	ROK (REPUBLIC OF KOREA)
***	HAWK	SYRIA
	JACKAL	HACKTIVIST
	KITTEN	IRAN



Source: CS 2024 Global Threat Report

2024 Ransomware Report



Global Cyber Incidents

Ransomware attacks on Governments and other organizations continue.

Recent Ransomware Attacks:

Meat processor JBS, Colonial Pipeline, Houston Rockets, CNA Financials, Oldsmar Florida
 Water Processing Plant, Kia Motors, Acer Computer Corporation, Baltimore, Dallas, Fort Worth
 PD, Atlanta and Fulton County, Anchorage, Norton Healthcare, and many others.

Other Notable Incidents:

- SolarWinds and Microsoft attacks occurred months before the vulnerabilities were publicly released to partners (lack of consistent communication)
- Microsoft Azure and Office 365 outages
- Crowdstrike worldwide outage causes Billions in damages July of 2024
- McAfee configuration issue in 2011
- 98% percent of cyber incidents involve preventable human error.

Local Gov Impacts of Global Incidents

- Pensacola City Government Days after a shooting on a Naval base, ransomware impacts 311, medical records, phones, and other public services.
 - Pensacola refused to pay, and the hackers started leaking data online
- Baltimore 2019, 911 systems shut down during citywide protests due to cyber attack
 - o Attacks used to disrupt emergency services responding to rioters.
- Monroe County, IN and Columbus, OH ransomware attacks
- Jefferson County Clerk's Office and PVA office ransomware attacks.

Louisville Metro Government

- 81 home rule cities, municipalities, fire districts, and quasi-governmental agencies greatly increase the risk
- Mass spam and phishing
- o Attacks from local law firms, quasi-government agencies, and financial partners of Metro
- o Local law firms and quasi-governmental agencies used as staging point for attacks
- Cyber incidents increase up to 200% during events that generate a news cycle

City/County Capabilities and Needs

What can we do and not do?

We can:

- Increase collaboration with regional partners, both private and government, through strategic partnerships
- Apply limited amount of available Federal grant funding to increase collaboration and capabilities
- Advise and mentor
- Help remove impediments to effective information sharing
 - Kentucky Cyber Threat Intelligence Cooperative (KCTIC)

We cannot:

- Run or fund cyber programs for home rule cities and counties at present staffing and funding levels
- Support KCTIC long term without financial support

What Can you Do?

- Incentivize collaboration with regional partners, both private and government, in the KCTIC
- Consider legislation outlawing paying ransom, but also fund cities and counties to a level that
 positions them to not have to pay ransom by funding:
 - Backups of critical systems
 - Modern antivirus and firewall
 - Disaster recovery plans
 - Outsourced IT and Cyber where applicable
 - Cyber insurance
- Consider legislation creating an approved IT vendor and product process and list
- Consider legislation supporting continued funding for KCTIC

Questions

