

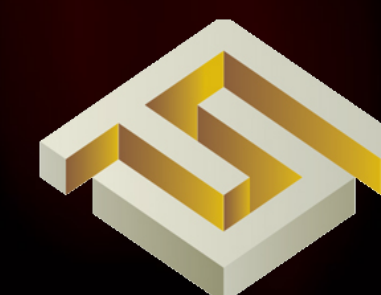


# He is everywhere

A tale of Lazarus and his family

2023-10-17, @lazarusholic

JeongGak Lyu, Financial Security Institute

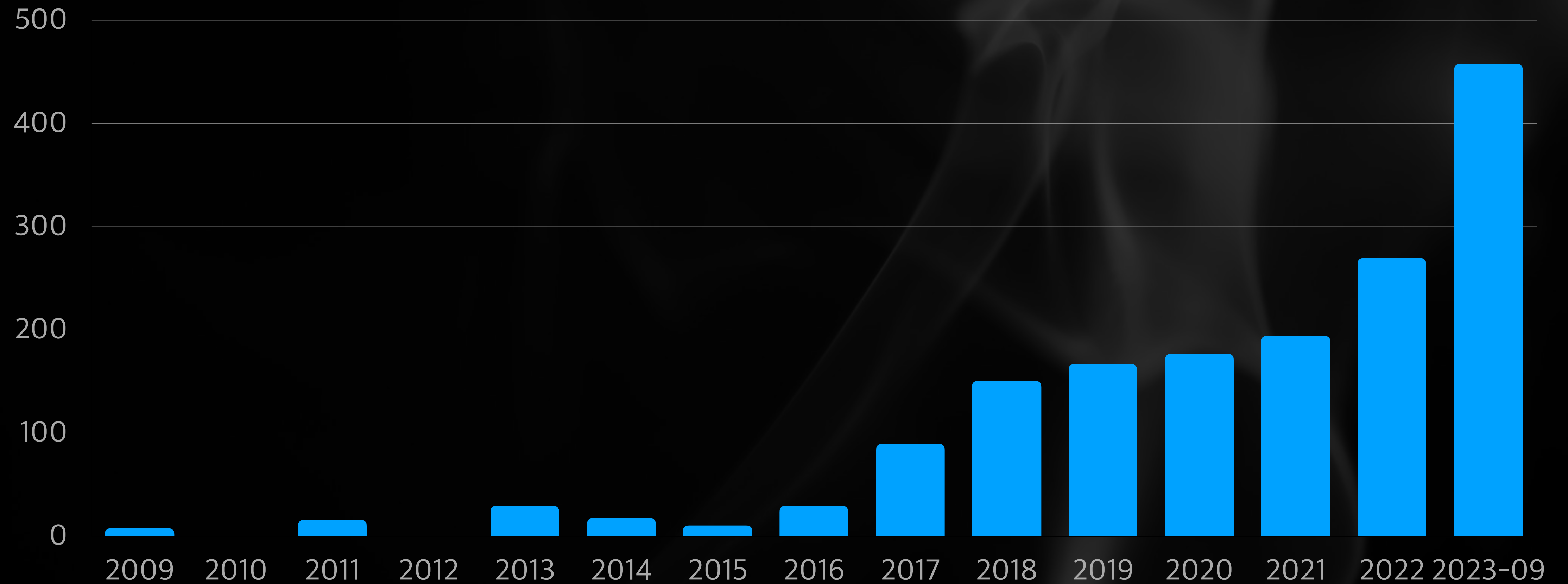


금융보안원  
FINANCIAL SECURITY INSTITUTE

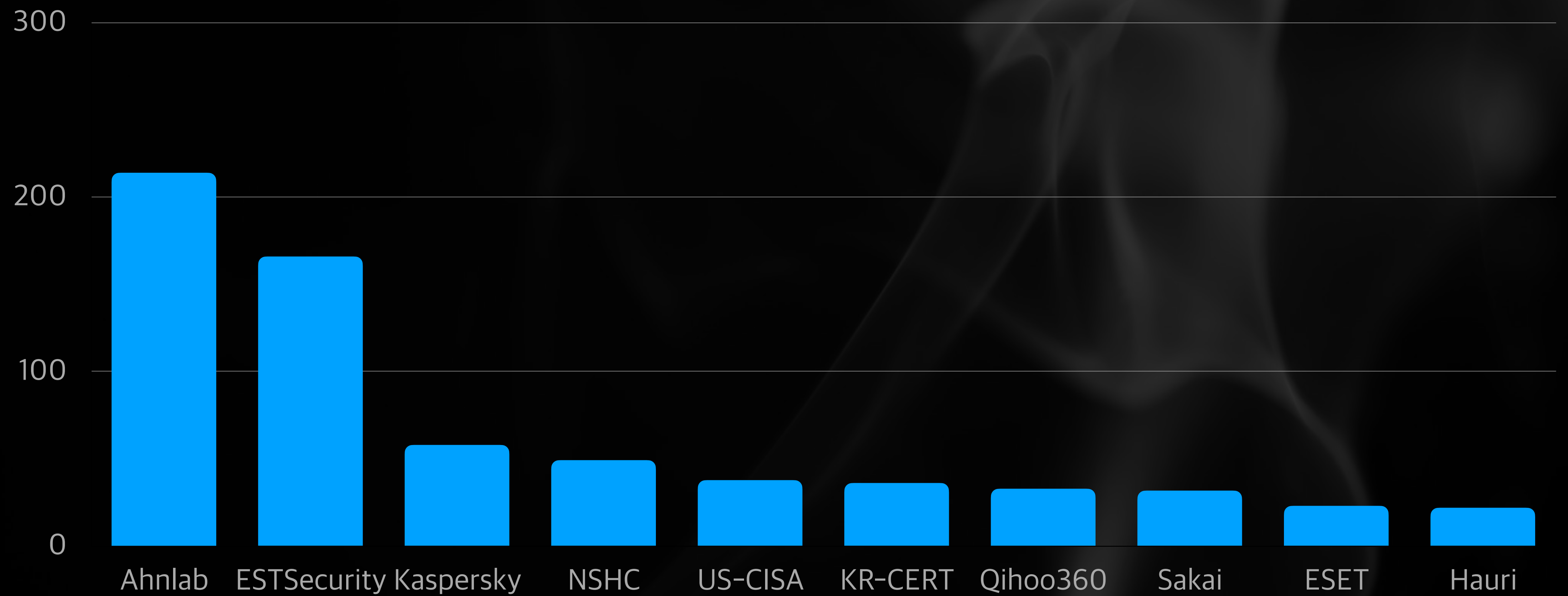
# Who are Lazarus and his family?

- Behind Infamous Cyber Incidents
- Democratic People's Republic of Korea(DPRK, North Korea) stated-sponsored Threat Actors
- Most Wanted Threat Actors in the World

# # of posts by year



# Top 10 authors



# Lazarus by the numbers

Posts

1,638

Authors

329

Aliases  
(Associated Groups)

143

Notable Activities

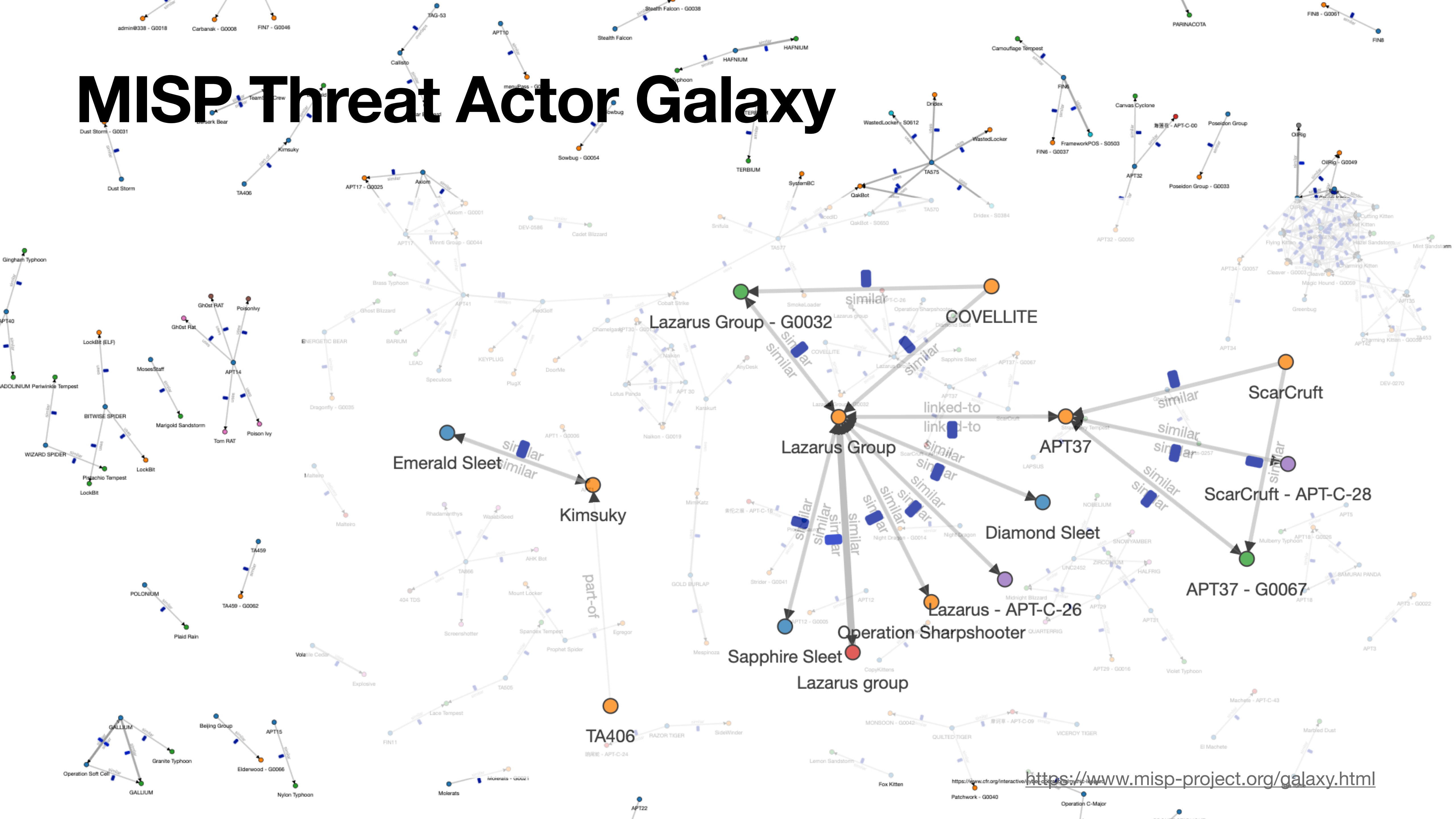
109

Victim Countries

57

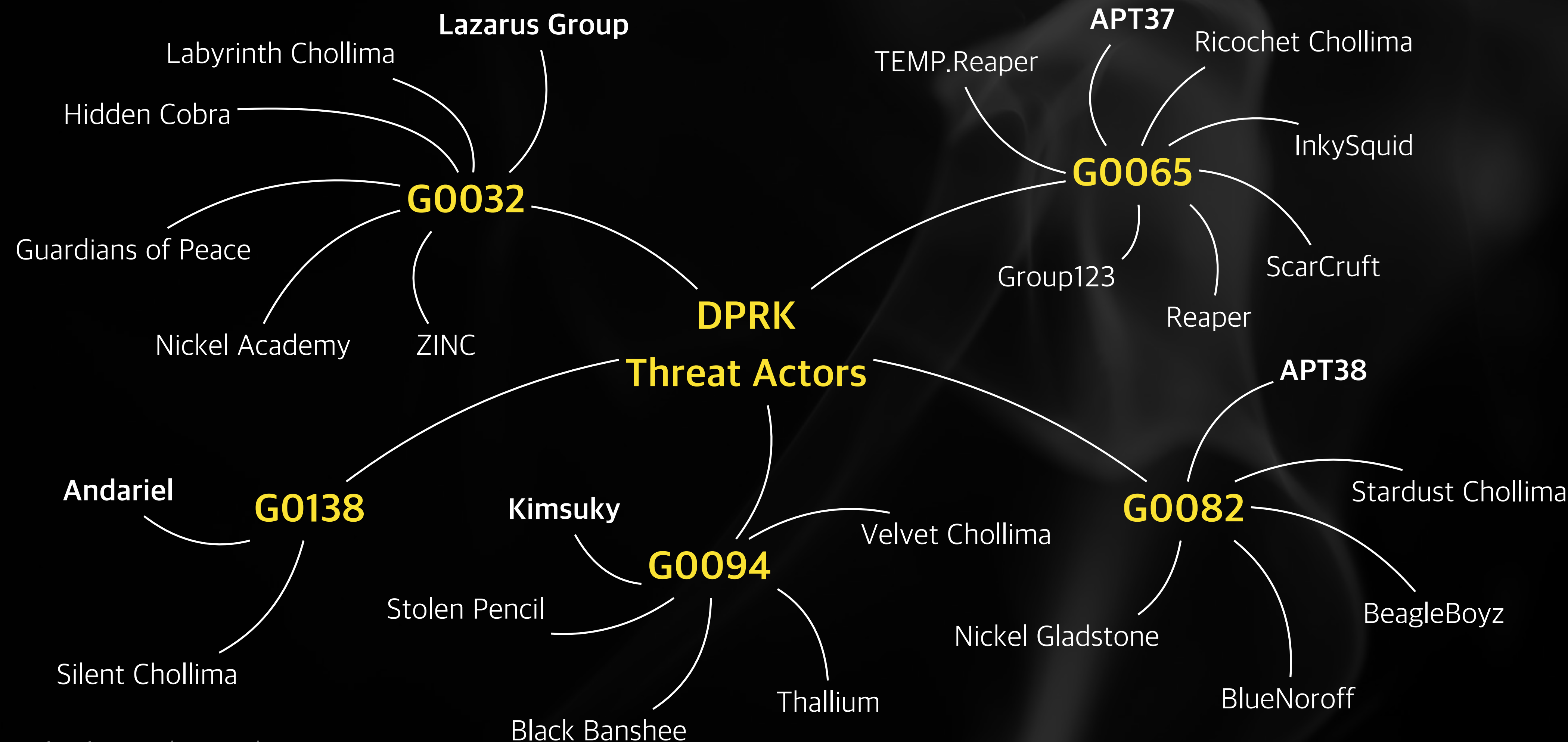


# MISP Threat Actor Galaxy



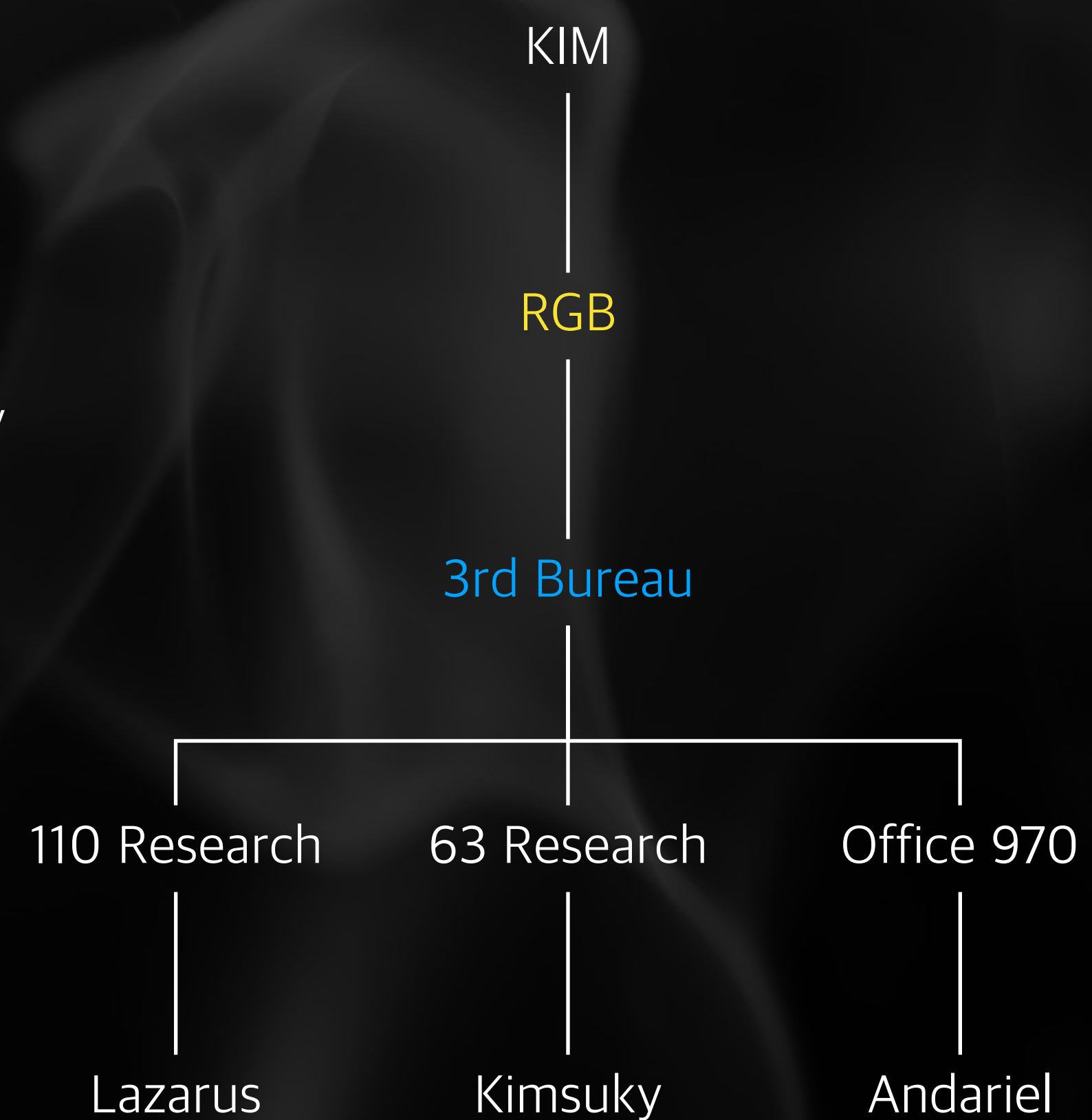
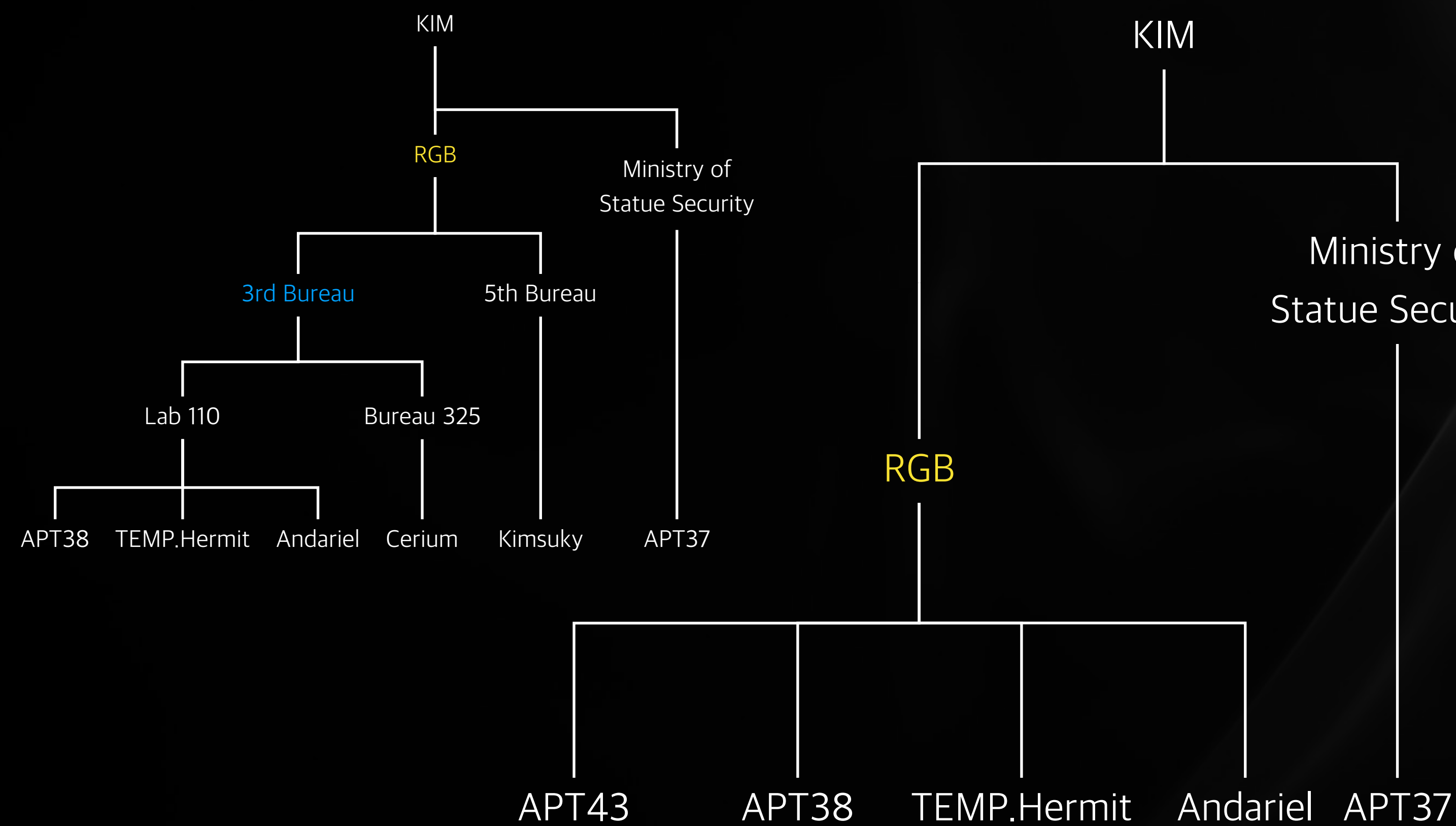
<https://www.cfr.org/interactive/visualizations/misp-project.html> <https://www.misp-project.org/galaxy.html>

# MITRE ATT&CK Groups



# Mandiant

# UN Security Council





# Naming conventions: Simple

- Qihoo360: APT-C-[N]
- Cisco Talos: Group[N]
- Elastic: REF[N]
- IBM: ITG[N], Hive[N]
- Mandiant: APT[N], UNC[N]
- Microsoft: Element Name(Deprecated)
- NSHC: Sector[A][N]
- Proofpoint: TA[N]
- Recorded Future: TAG-[N]
- Secureworks: CTG-[N]
- Thales Group: ATK[N]
- Qianxin: APT-Q-[N]

# Naming conventions: State-sponsored

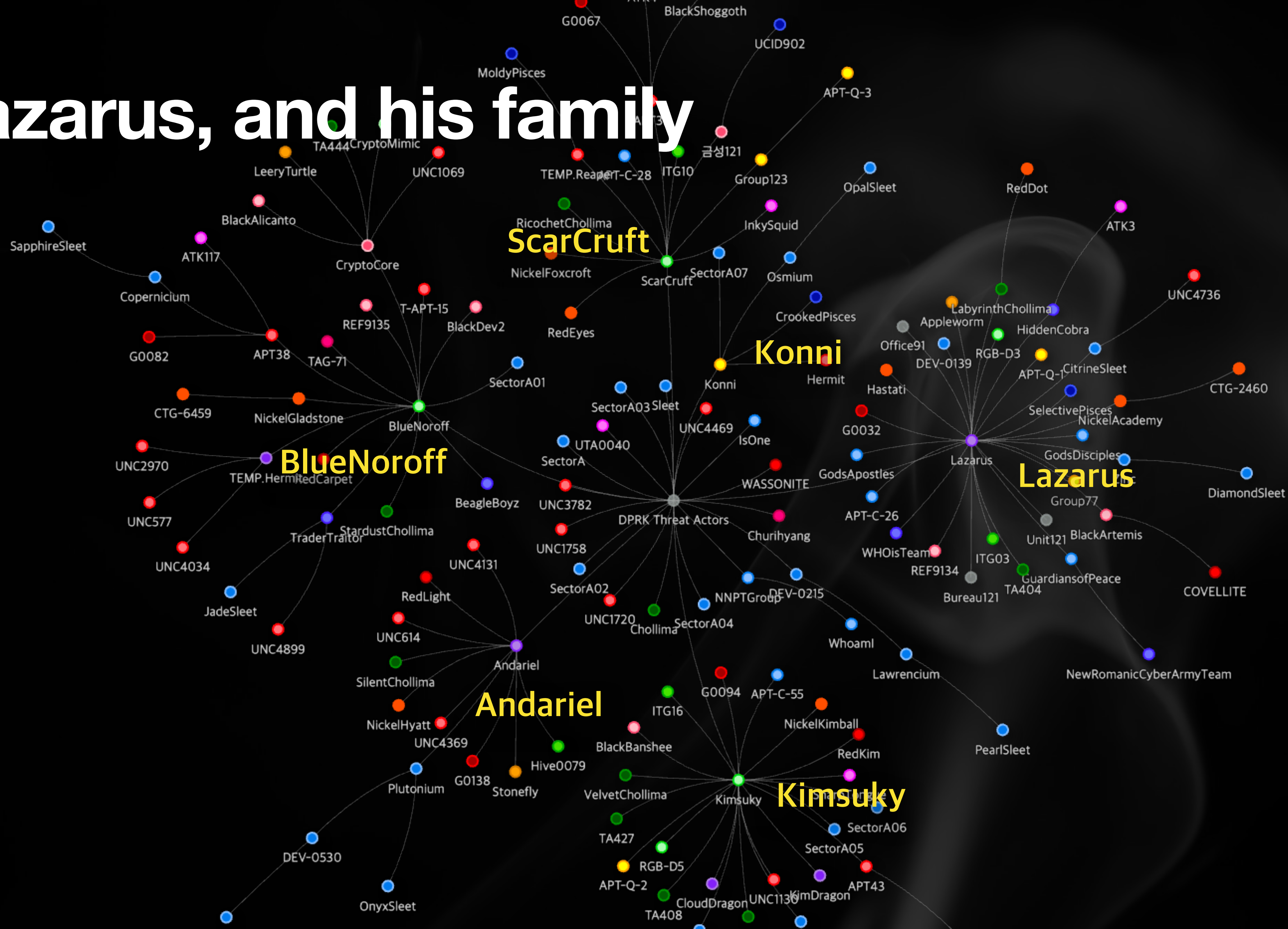
	China	DPRK	Iran	Russia
Crowd Strike	Panda	Chollima	Kitten	Bear
Microsoft	Typhoon	Sleet	Sandstrom	Blizzard
NSHC	SectorB	SectorA	SectorD	SectorC
Paloalto Networks	Taurus	Pisces	Serpens	Ursa
PWC	Red	Black	Yellow	Blue
Secureworks	Bronze	Nickel	Cobalt	Iron

# Naming conventions: DPRK

- Ahnlab: **Red** [Dot | Eyes]
- CrowdStrike: [Labyrinth | Ricochet | Silent | Startdust | Velvet] **Chollima**
- KRCERT: **Red** [Carpet | Kim | Light]
- Microsoft: [Citrine | Diamond | Emerald | Jade | Onyx | Opal | Pearl | Ruby | Sapphire] **Sleet**
- NSHC: **SectorA**[01 - 07]
- Paloalto Networks: [Crooked | Moldy | Selective] **Pisces**
- PWC: **Black** [Alicanto | Artemis | Banshee | Dev2 | Shoggoth]
- Secureworks: **Nickel** [Academy | Foxcroft | Hyatt | Kimball]



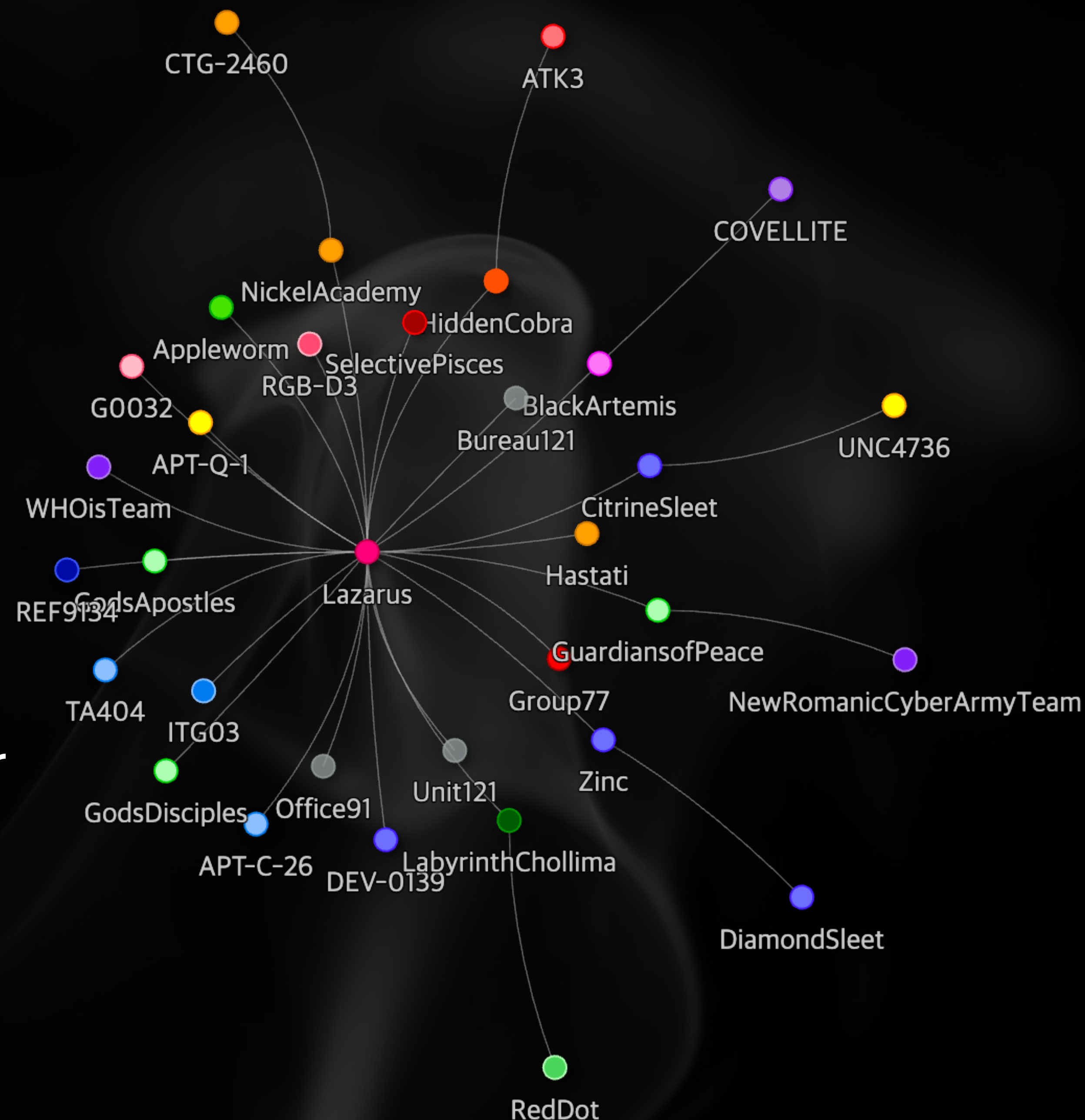
# Lazarus, and his family





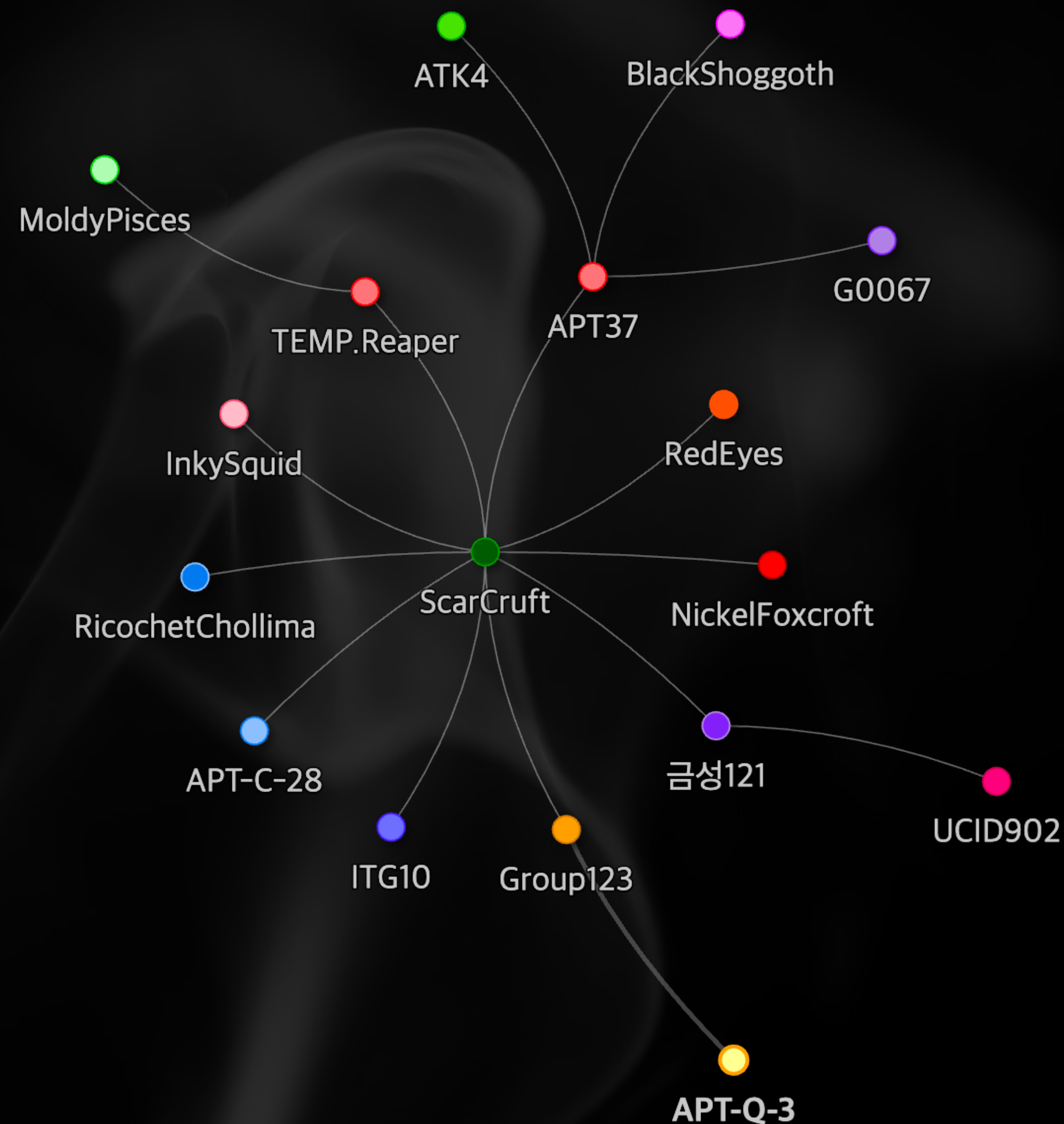
# Lazarus, G0032

- Named by Novetta, 2016-02-24
  - Presumably affected by “God’s Apostles” in operation Blockbuster
  - Returned from the dead in the Bible
- Represent the entire DPRK threat actor



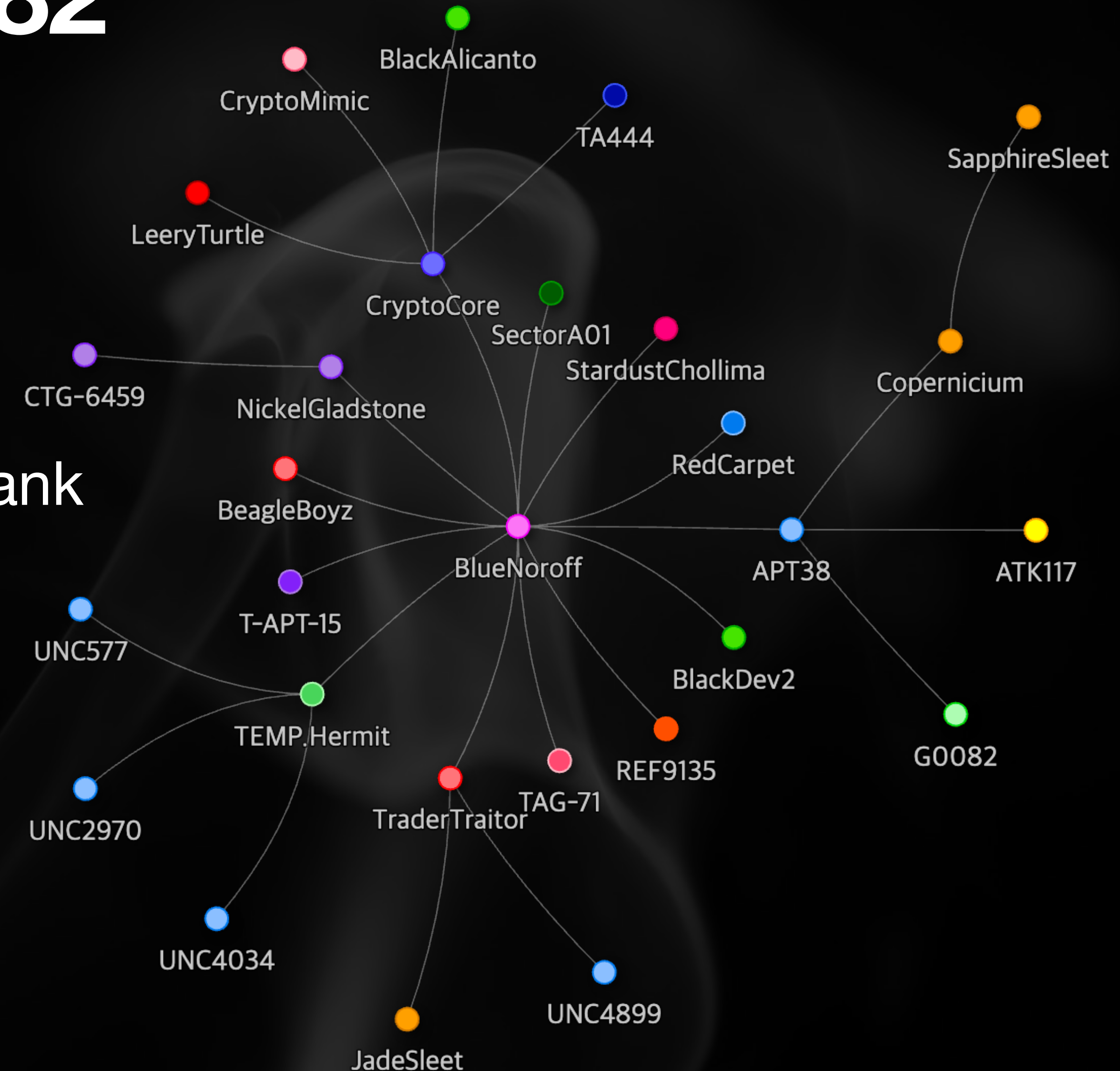
# ScarCurft, APT37, G0067

- Named by Kaspersky, 2016-06-17
  - Variations on the malware repository domain, “scarcroft[.]net”
- Targeted the North Korean defectors



# BlueNoroff, APT38, G0082

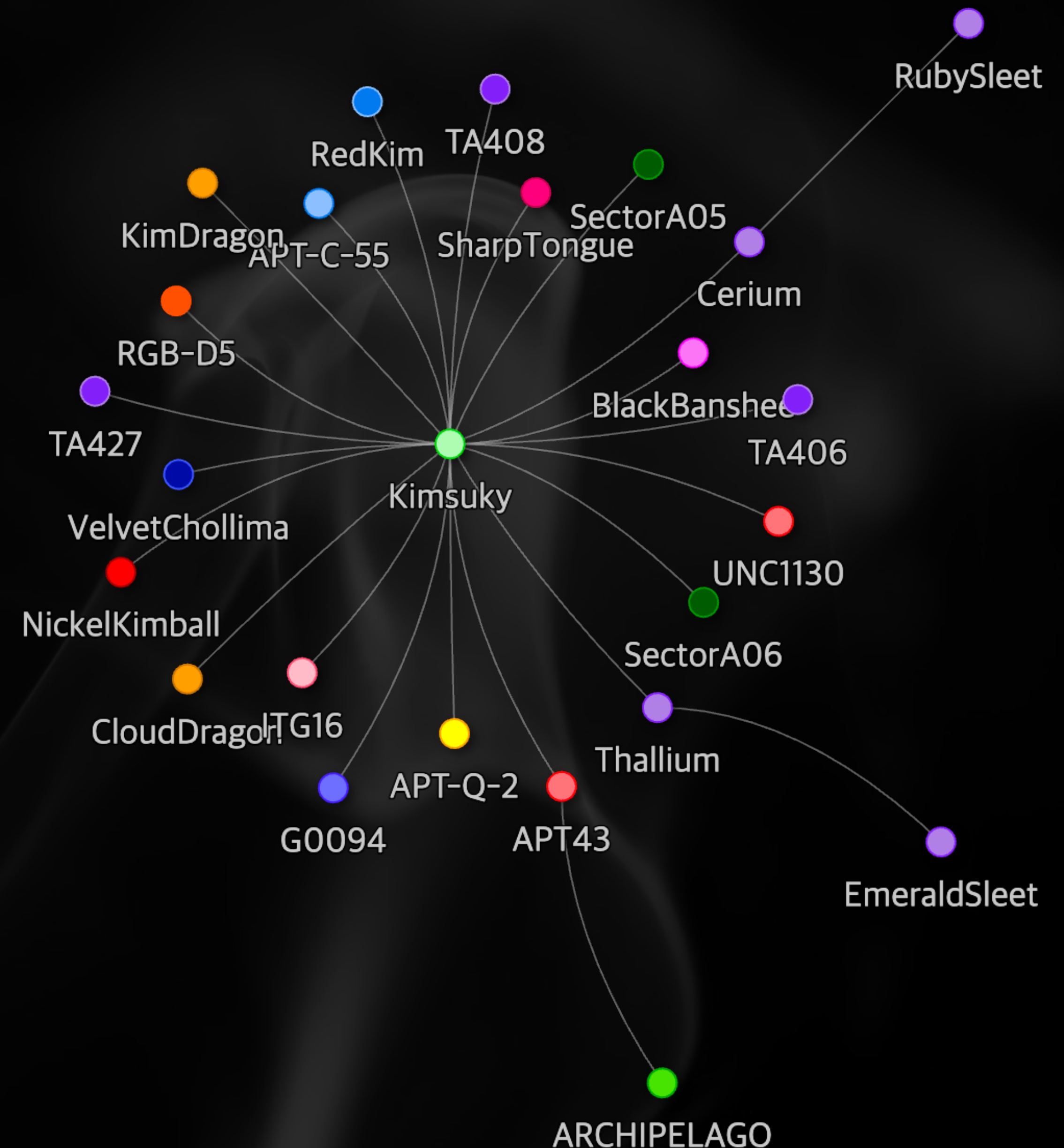
- Named by Kaspersky, 2017-04-03
  - Variations on the malware filename, “nroff\_b.exe” in Bangladesh Central Bank Heist
- Follow the money





# Kimsuky, APT43, G0094

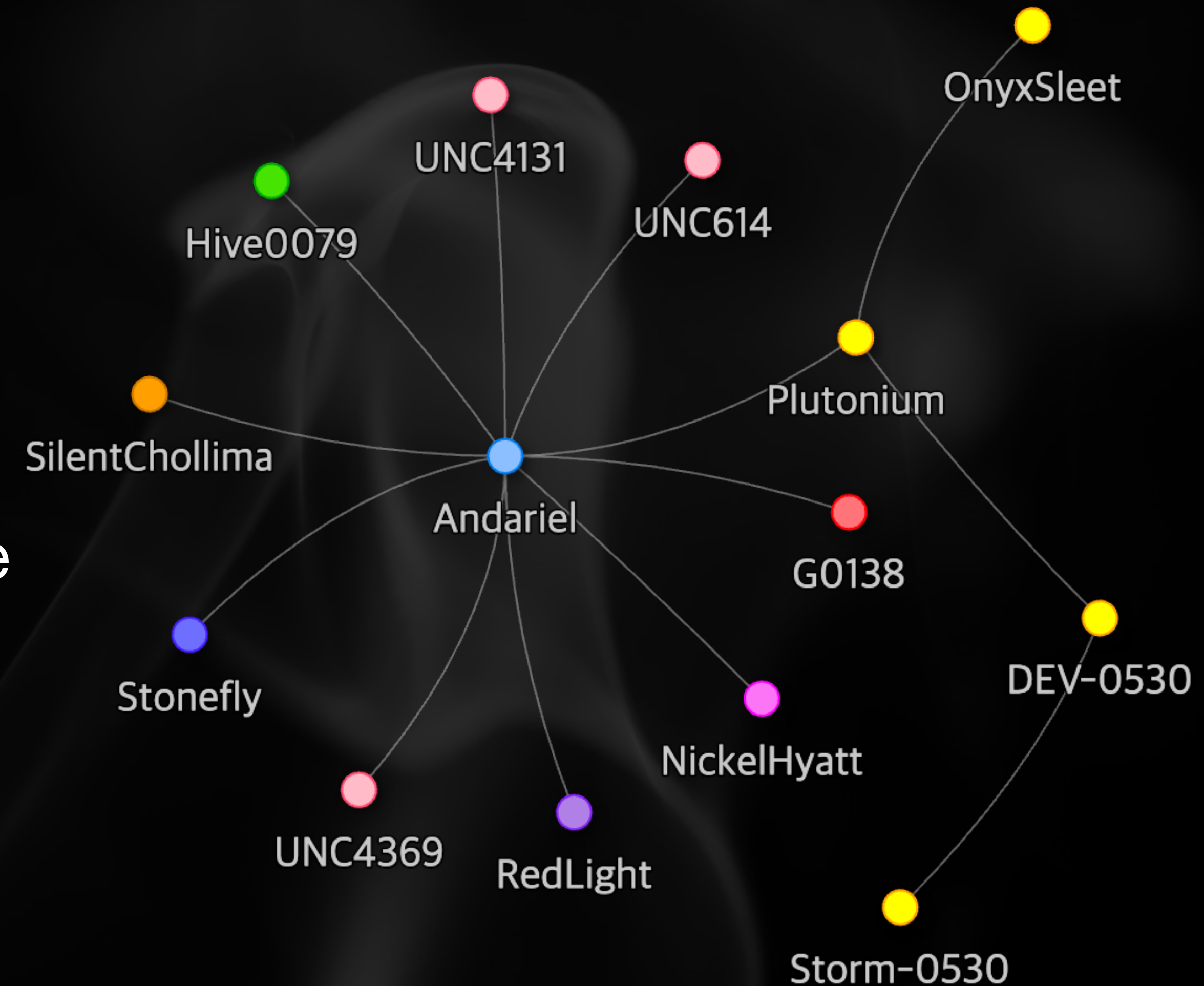
- Named by Kaspersky, 2013-09-11
  - Russianized version of the email sender name, “kimsukyang”(김숙양)
  - Initially announced as an operation code name
- “The king of the spear-phishing”





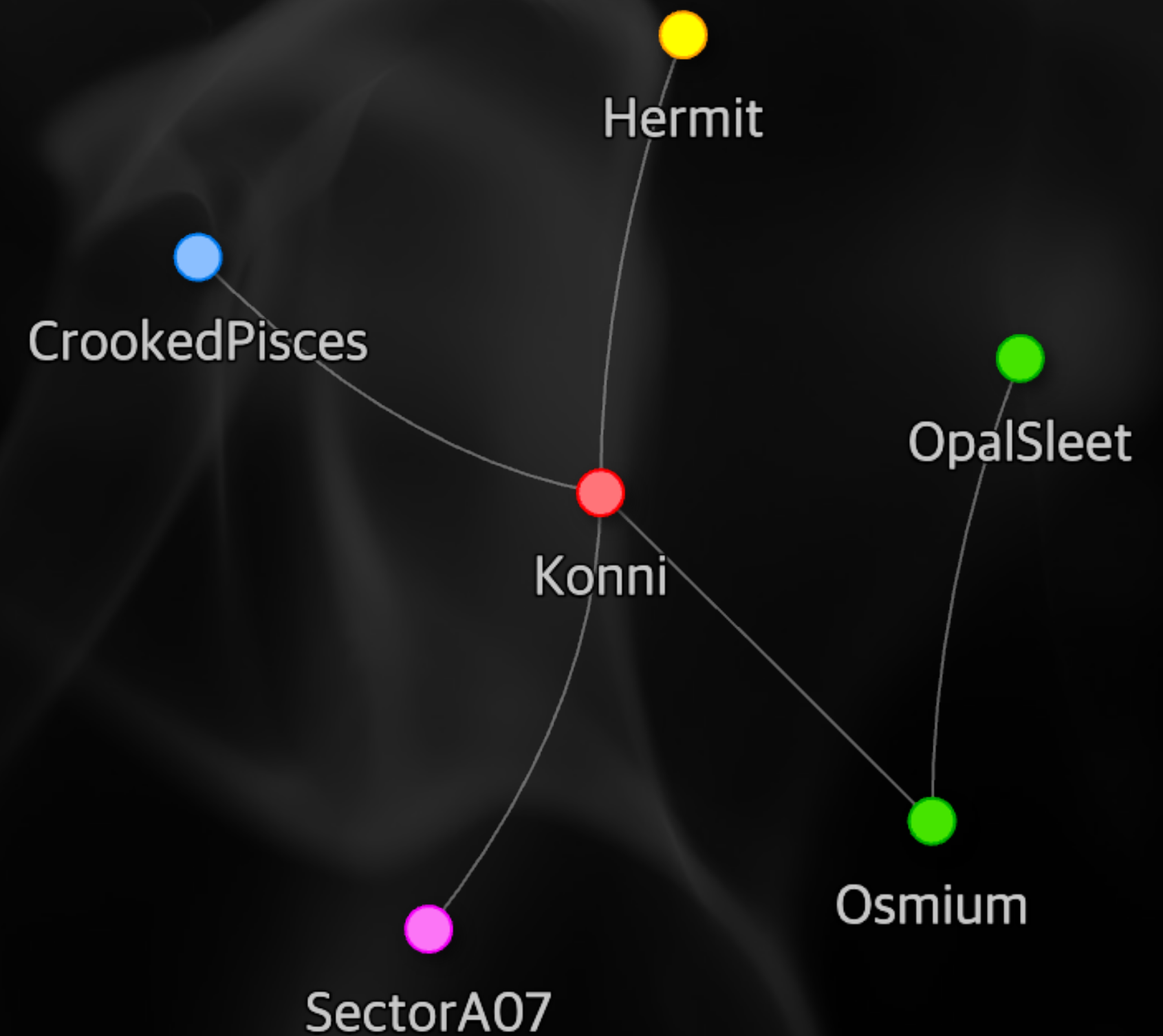
# Andariel, G0138

- Named by FSI, 2017-07-27
  - The act 1 boss character in the game, Diablo II
- Exploit centralized management software
- Targeted U.S. healthcare with ransomware

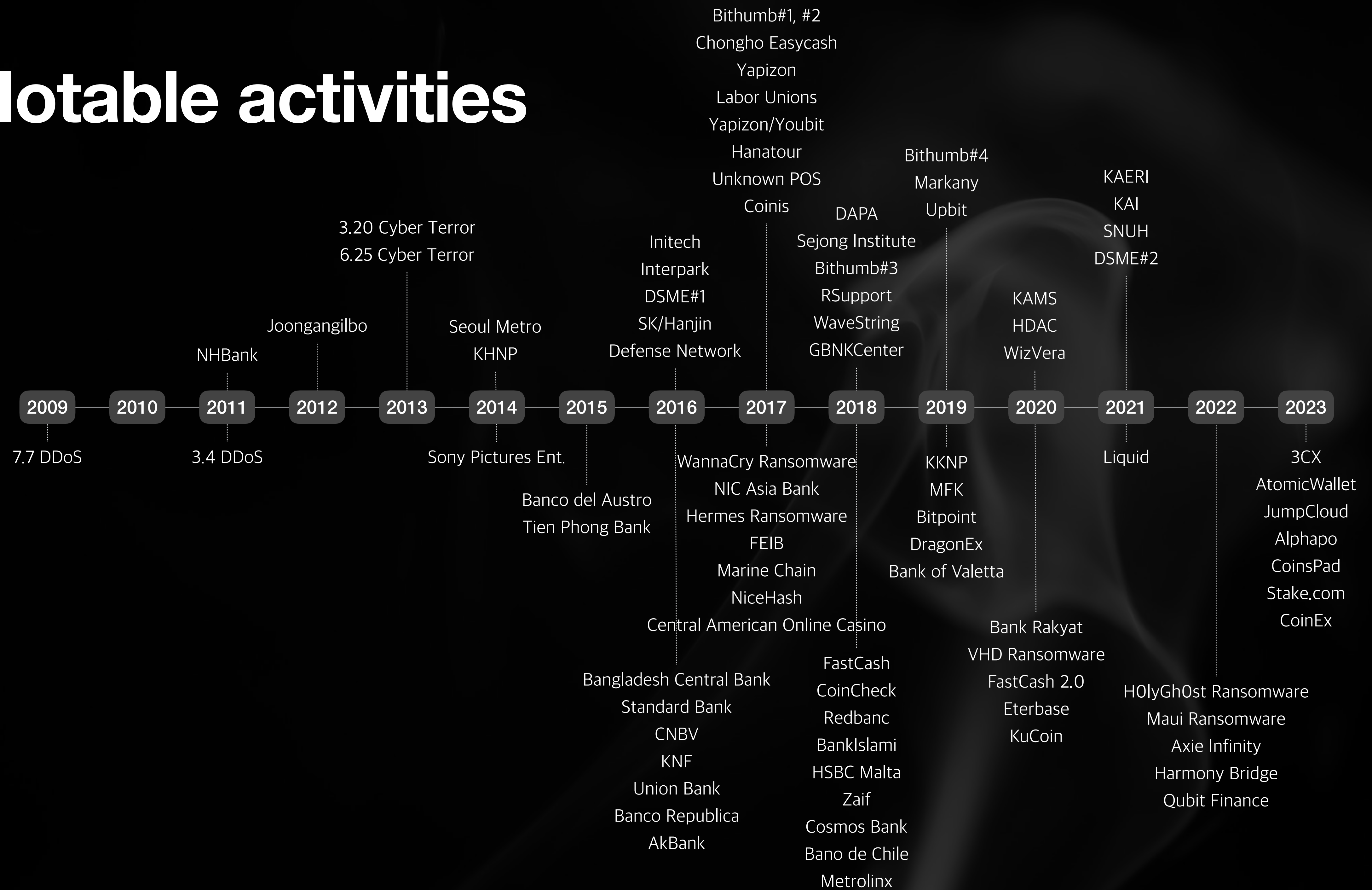


# Konni

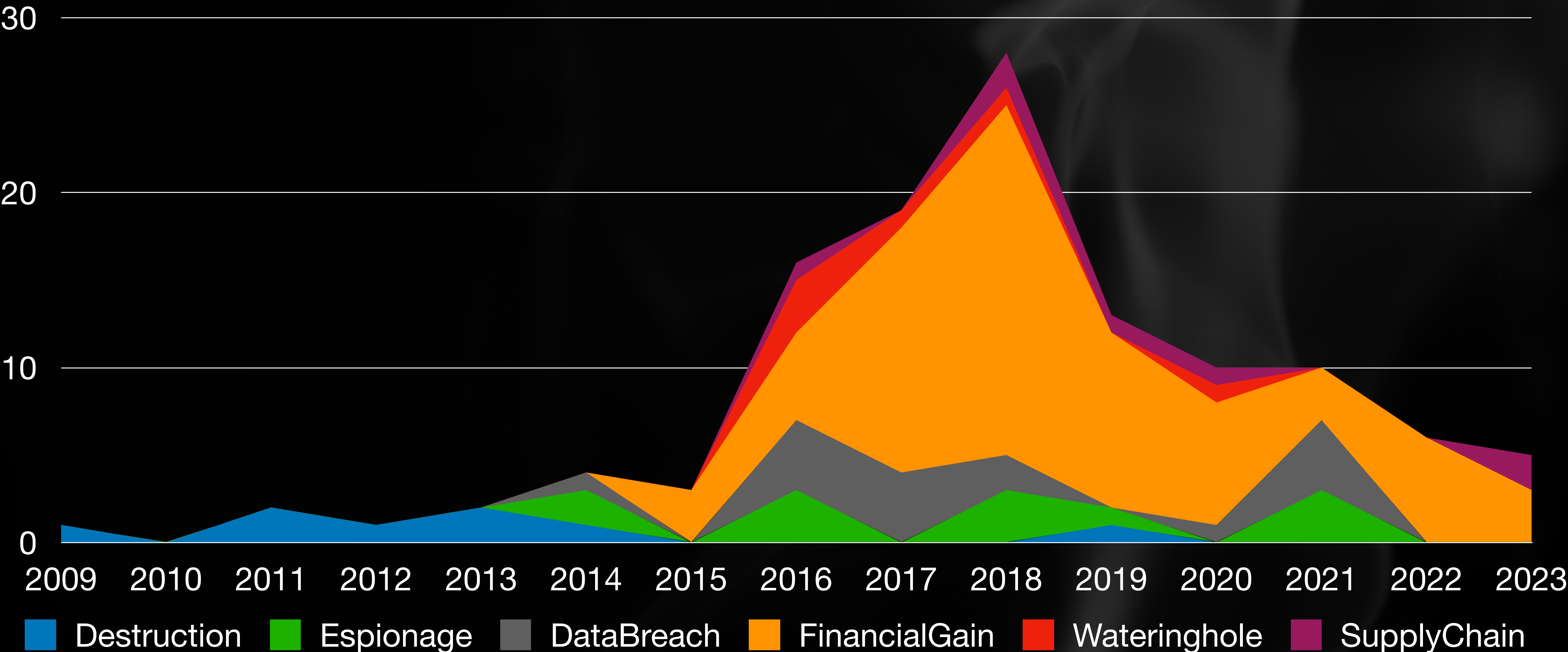
- Named by Cisco Talos, 2017-05-03
  - Initially Introduced as a malware family name
- Spear phishing targeting South Korea



# Notable activities

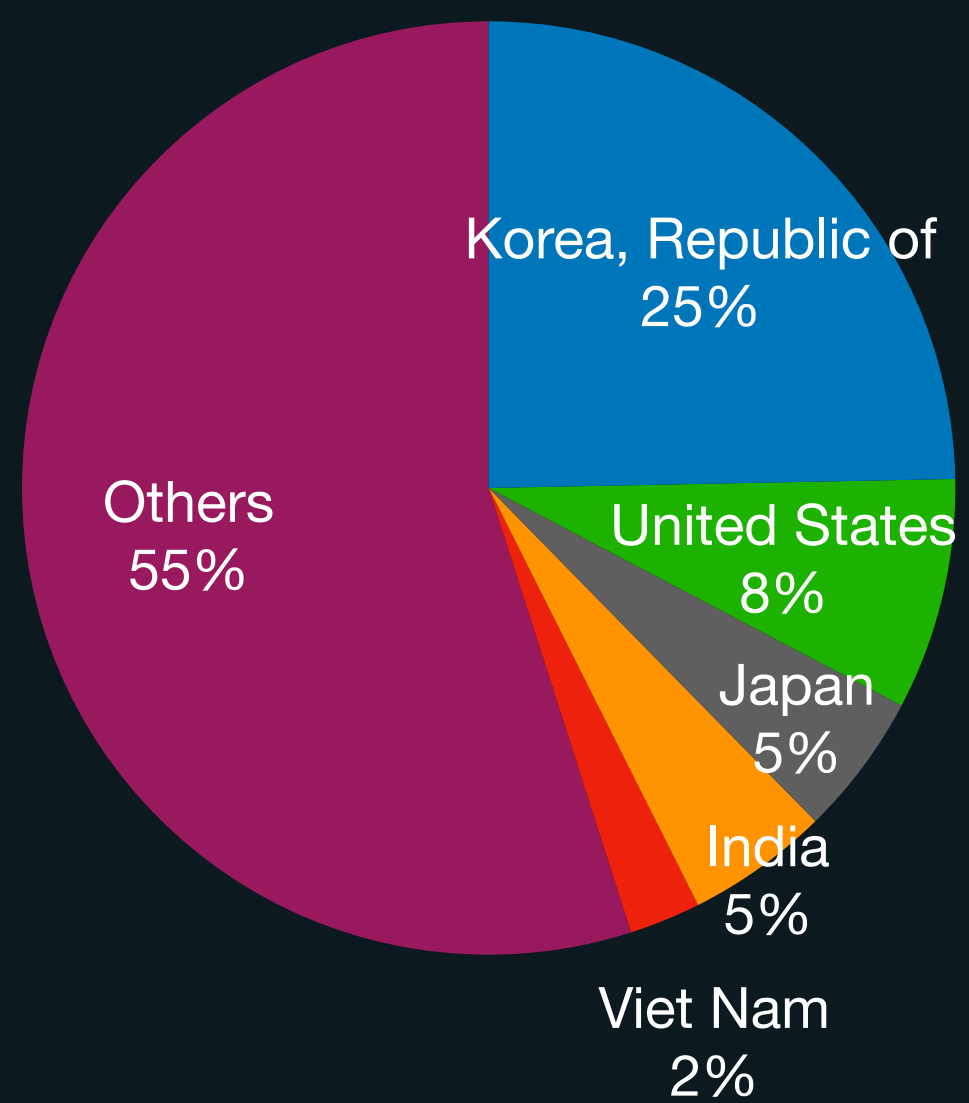


# Notable activities by motivation





# Worldmap



# Their favorites

- Initial Access
  - T1195 Supply Chain Compromise
  - T1189 Drive-by Compromise
  - T1566 Phishing
- Lateral Movement
  - T1210 Exploitation of Remote Services



# Is he everywhere?

[@lazarusholic](#)

<https://lazarus.day>

Background Images: Unsplash Marek Piwnicki