



The ABCs of ICS Threat Activity Groups

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Before we get started...

- The webinar is being recorded
- The recording will be sent out in a few days
- Please submit questions using the Q&A feature
- All attendee phones are muted
- Let's meet our speakers!

Meet our Speakers

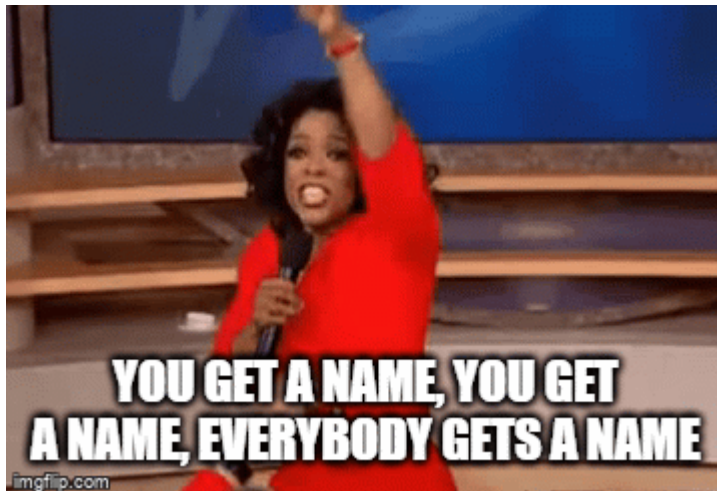


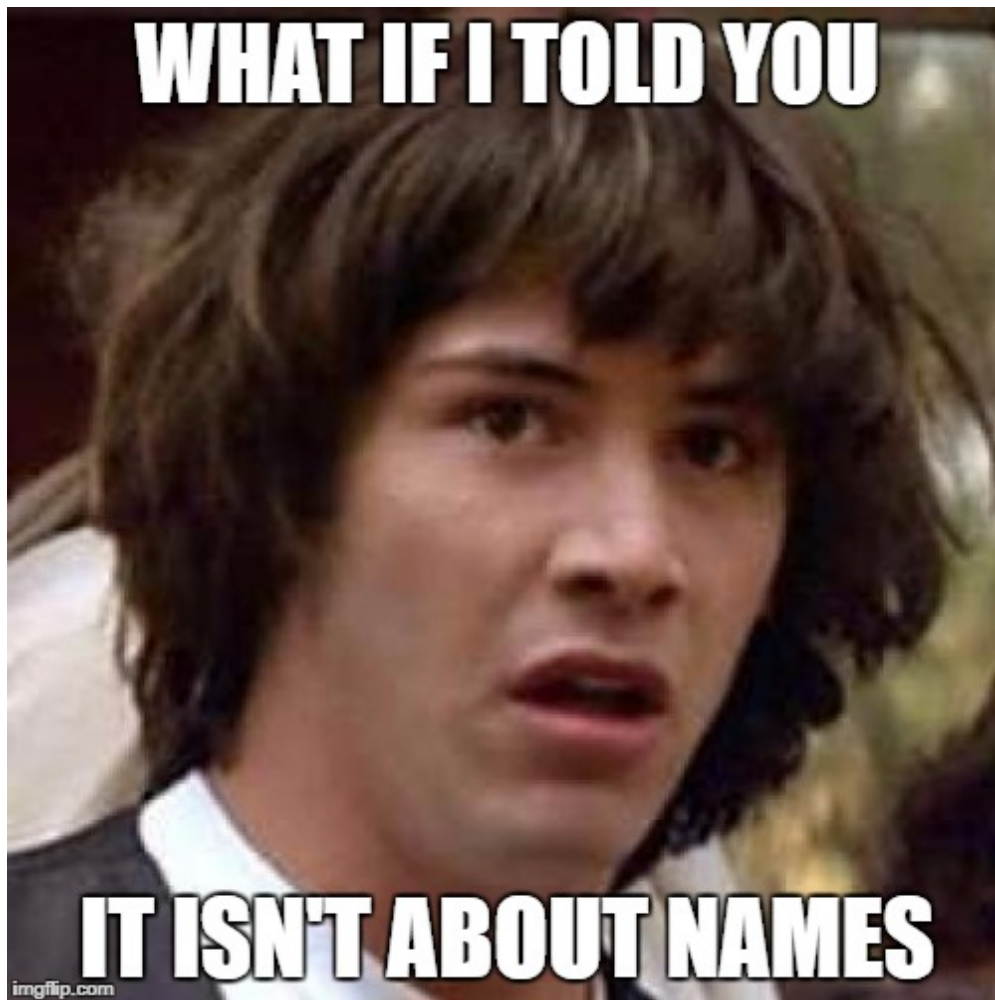
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Threat Group Names are Everywhere





What does this mean?



E&E NEWS

SEARCH:

go!

<< Back to E&E News index page.

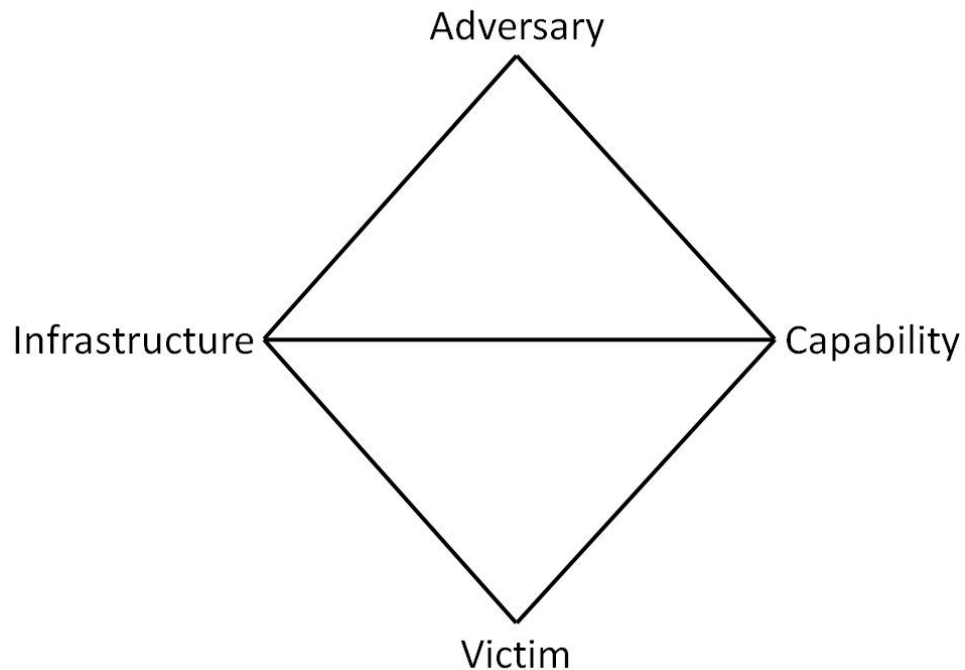
SECURITY

'Most dangerous' hackers targeting U.S. utilities — report

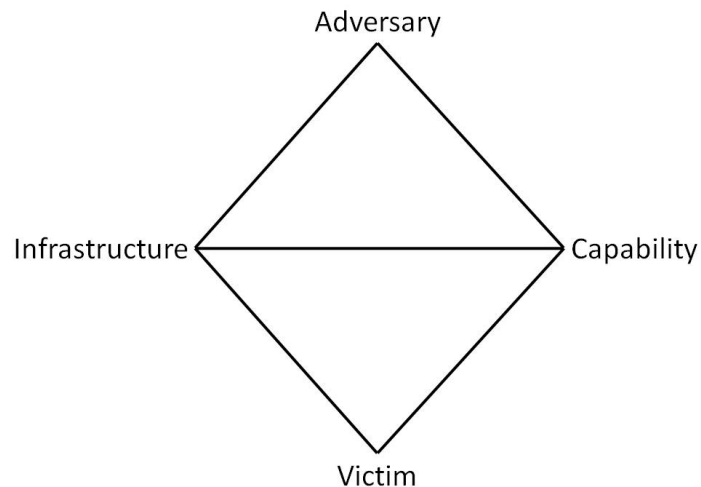
Blake Sobczak, E&E News reporter • Published: Friday, June 14, 2019



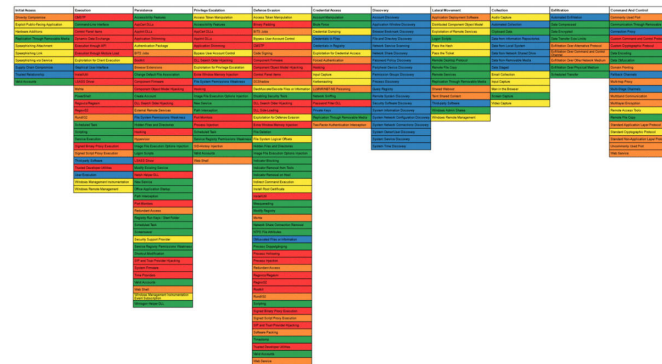
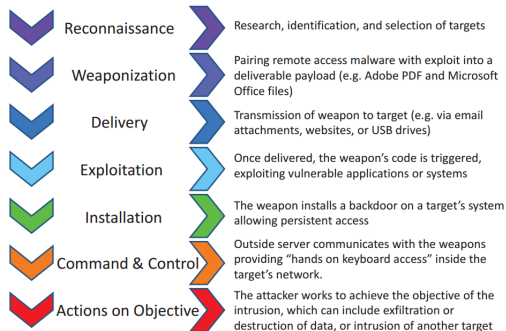
Diamond Model of Intrusion Analysis



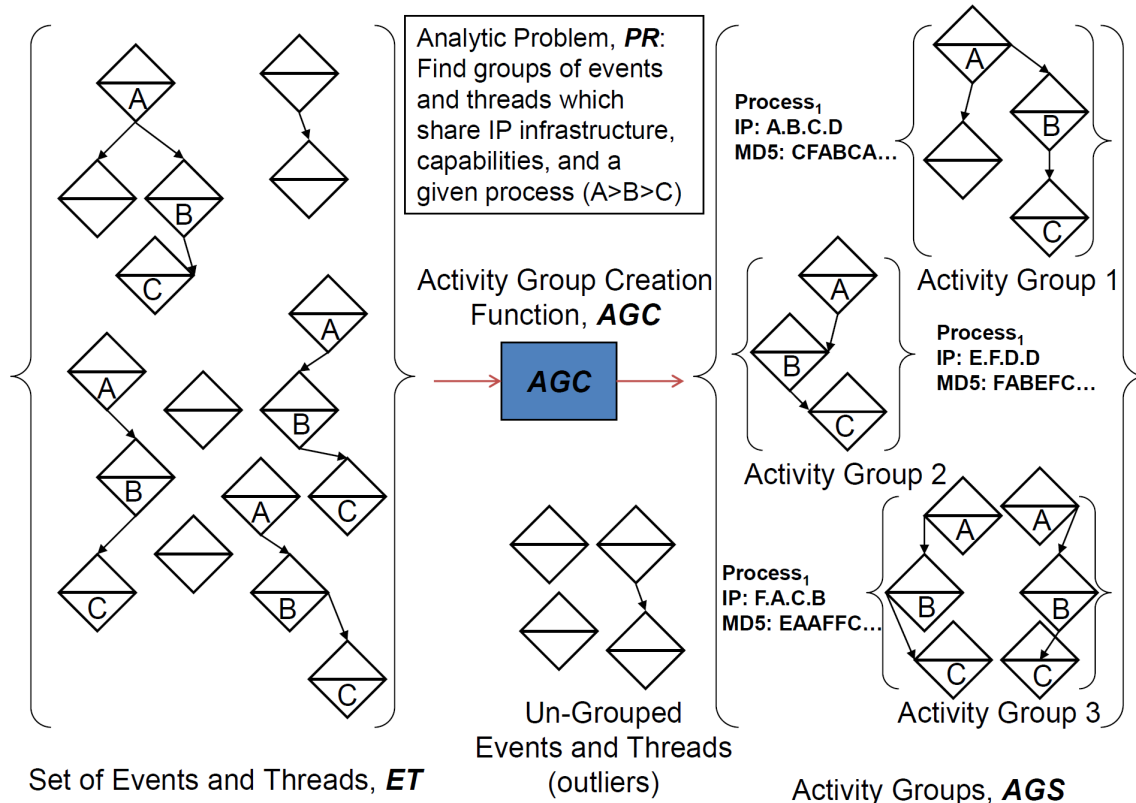
Diamond, Kill Chain, ATT&CK



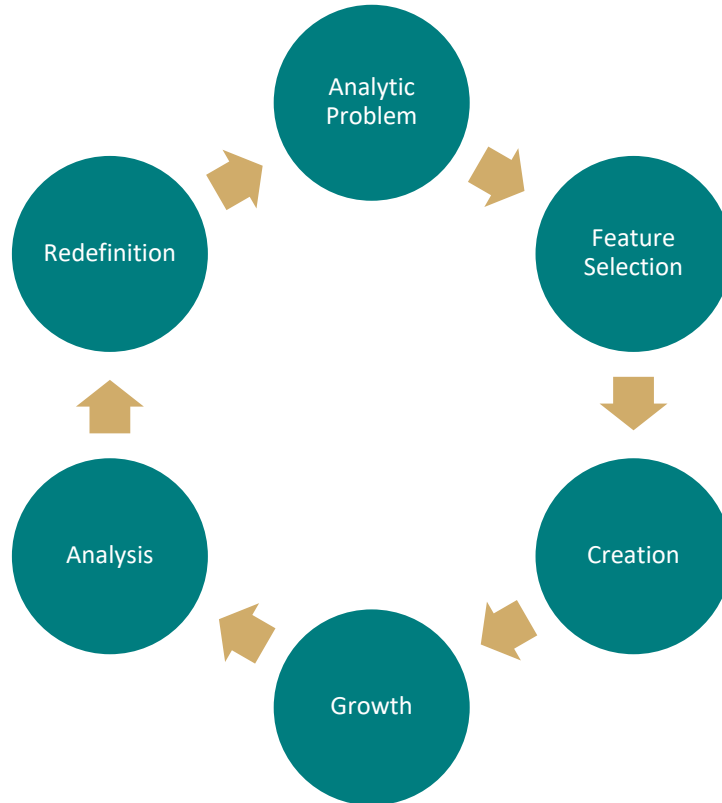
Phases of the Intrusion Kill Chain



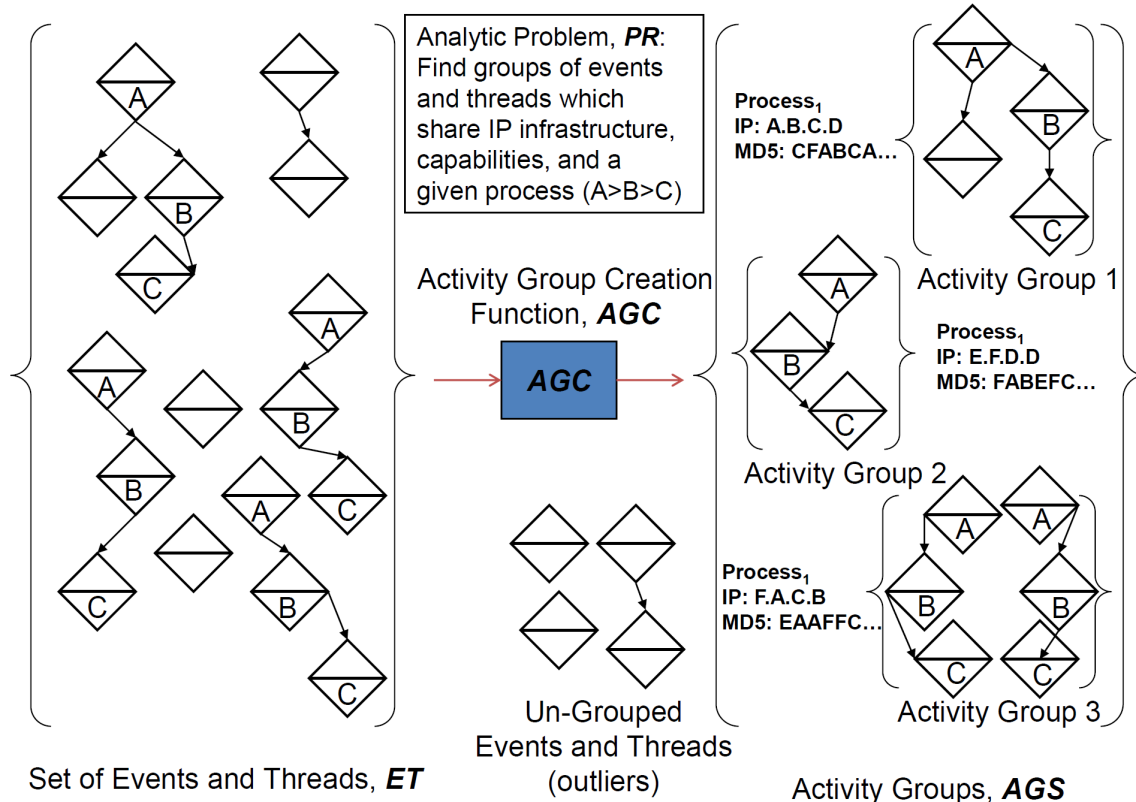
Activity Groups



Activity Group Lifecycle



Activity Groups





Behavior, Behavior, Behavior

Detection

Detect classes of threats

Detect behaviors, not things

Have 100s of detections, not millions

Mitigation

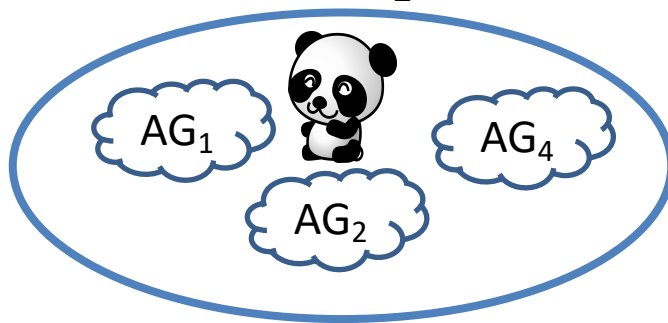
Mitigate whole classes of threats

Define and control the physics

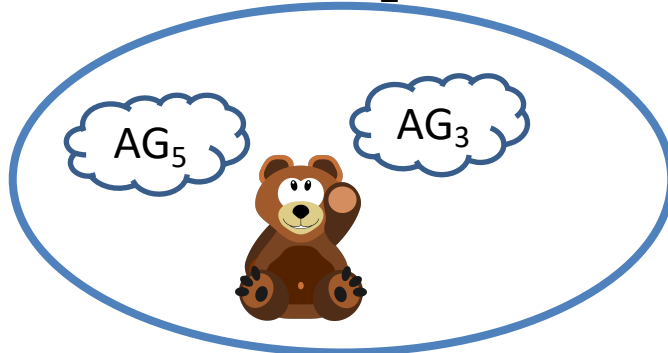
Mitigate Strategically not Tactically

Activity Group Families

AGF_1



AGF_2



Attribution



Activity Groups are not equivalent to attribution



ICS threat environments are too complex for a simple attribution model




Soft Attribution is not Hard Attribution

Some Dragos Activity Groups




XENOTIME
since 2014

- > **MODE OF OPERATION**
Focused on physical destruction and long-term persistence
- > **CAPABILITIES**
TRISIS, custom credential harvesting, off the shelf tools
- > **VICTIMOLOGY**
Oil & Gas, Electric, Middle East, US, Europe, APAC
- > **LINKS**
None



DYMALLOY
since 2016

- > **MODE OF OPERATION**
Deep ICS environment information gathering, operator credentials, industrial process details
- > **CAPABILITIES**
GOODOR, DORSHEL, KARAGANY, Mimikatz
- > **VICTIMOLOGY**
Turkey, Europe, US
- > **LINKS**
Dragonfly2, Berserker Bear



ELECTRUM
since 2016

- > **MODE OF OPERATION**
Electric grid disruption and long-term persistence
- > **CAPABILITIES**
CRASHOVERRIDE
- > **VICTIMOLOGY**
Ukraine, Electric Utilities
- > **LINKS**
Sandworm



<https://www.dragos.com/threat-activity-groups/>

Q&A

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Thank You!

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