

Threat Actor Open Repository User Group

KICK-OFF MEETING / AUGUST 2, 2019

Agenda

- **Harmonizing Threat Actor Frameworks**
- **Discuss Open Repository Coordination**
- **Discuss Resources**

STIX 2.1 Threat Actor SDO Summary

SDO	Required Common Properties	Optional Common Properties	Not Applicable Common Properties	Threat Actor Specific Properties
Threat Actor	type spec_version id created modified	created_by_ref revoked labels confidence lang external_references object_marking_refs granular_markings	defanged extensions	name description threat_actor_types aliases first_seen last_seen roles goals sophistication resource_level primary_motivation secondary_motivation personal_motivations

Source: 4.16 Threat Actor, WD05 - <https://docs.google.com/document/d/1bkMmU1PxlwIAwjrMmyWV147rvLcRs2x62FicHbpH2gU/edit#heading=h.k017w16zutw>

Existing OS Resources

- **Florian Roth et. al. Matrix**
 - https://docs.google.com/spreadsheets/u/1/d/1H9_xaxQHpWaa4O_Son4Gx0YOIzlcBWMsdvePFX68EKU/pubhtml
- **ATT&CK 'Groups'**
 - <https://attack.mitre.org/groups/>
- **MISP-Galaxy**
 - <https://github.com/MISP/misp-galaxy/blob/master/clusters/threat-actor.json>
- **CERT.be**
- **Other???**

Framework

- **Authorization**

- OASIS TC Open Repository Policies

- <https://www.oasis-open.org/policies-guidelines/open-repositories>

- **Membership**

- CTI TC Members & non-Member Contributors

- **Governance**

Definition

“An OASIS TC Open Repository (“TC Open Repository”) is a distinct facility operated by OASIS for collection of voluntarily contributed information relevant to the work of a specific TC, under the rules set forth in these procedures. TC Open Repositories may reside on third-party server resources.”

Contributions

*“Each TC Open Repository will be subject to a declared “Applicable License,” selected from the list of licenses at the end of this section. The Applicable License for a repository will apply to all repo contributions donated to the repository, by posting it or requesting its inclusion in that repository. **Anyone, whether an OASIS member or TC member or not, may contribute into a TC Open Repository”***

All Participants Must Sign a CLA

“Each TC Open Repository shall be subject to a Contributor License Agreement (“CLA”) by which all persons making repo contributions into it are bound. The CLA shall bind each donor of a repo contribution to the repository's Applicable License and such other consistent terms as OASIS may require as a publisher to assure its availability.”

Purpose Statement

“Each TC Open Repository should have a purpose statement, indicating its intended contents or topic, declared by the TC that creates it, as part of its approval action.”

Resources

- **CTI TC Ad Hoc Meeting Link**
 - <https://newcontext.zoom.us/j/332585406>
- **OASIS Github**
 - “OASIS initially will create TC Open Repositories as either distinct [GitHub](#) projects, or distinct Subversion repositories.”
- **Visual Diagrams**
 - See Appendix
- **Icons**
 - <https://github.com/freetaxii/stix2-graphics/tree/master/icons/png/stix2-adversary-icons-png>

Open Discussion

Visual Resources

Threat Actor Definition

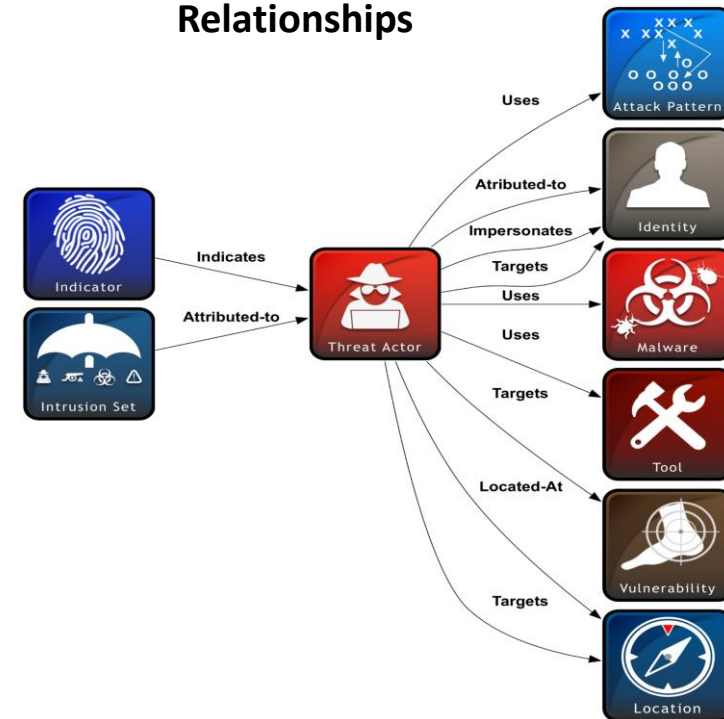


Threat Actors are actual individuals, groups, or organizations believed to be operating with malicious intent.

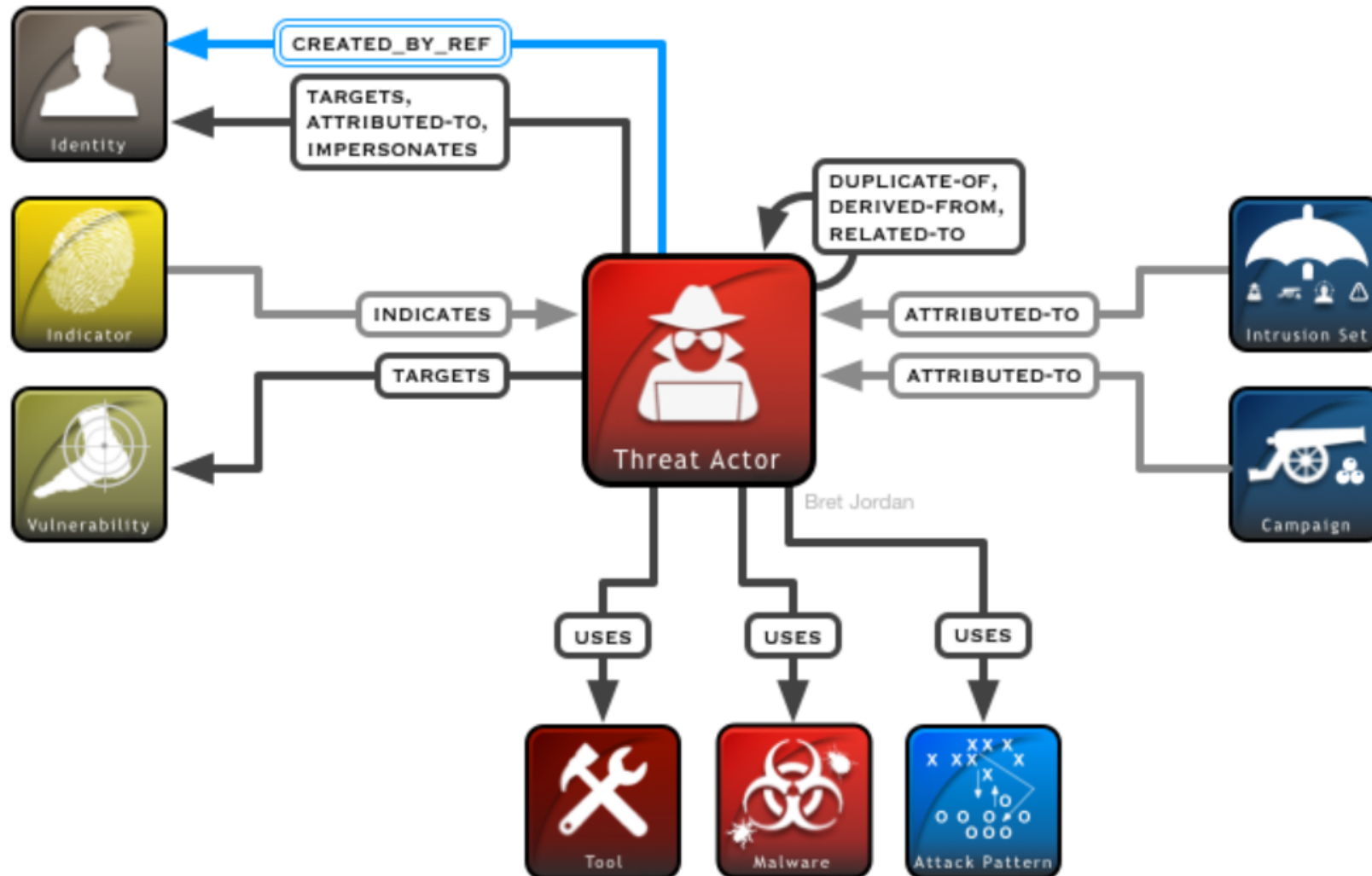
Examples

- Evil Org, an organization
- John Doe, a malware author associated with Evil Org and several other criminal groups

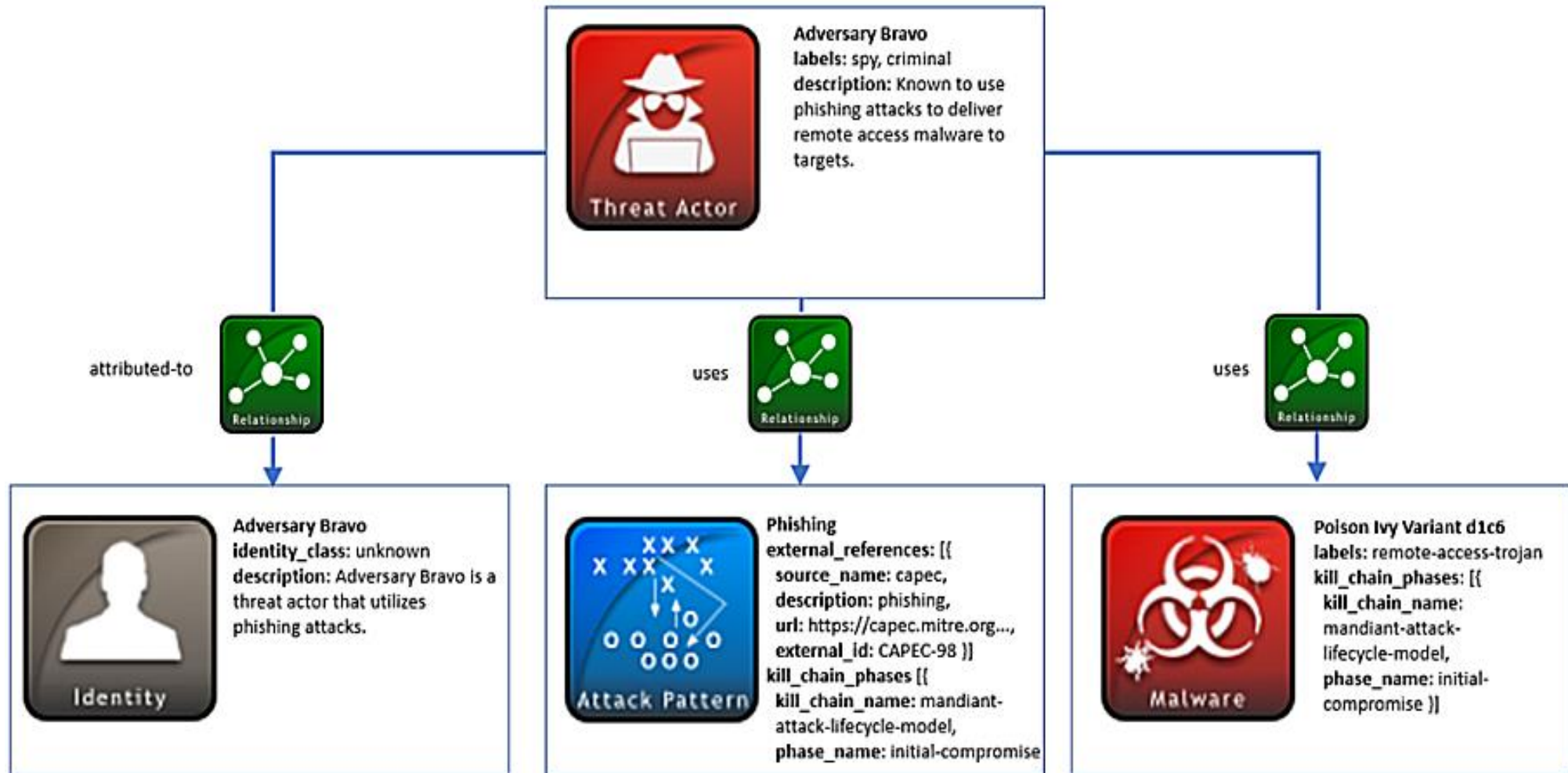
Relationships



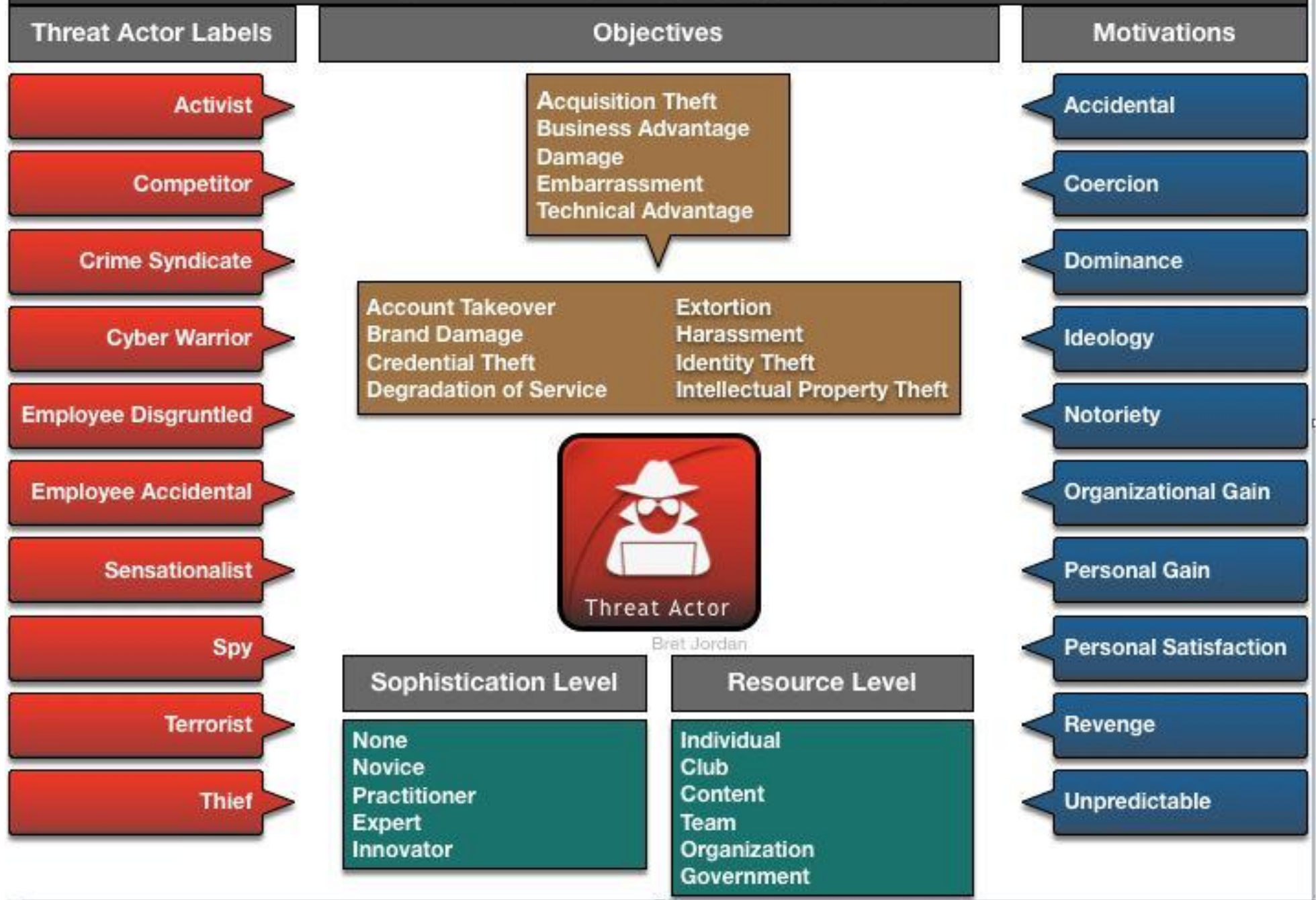
Forward & Reverse Relationships



Sample Use Cases with SDOs



STIX 2.0 Threat Actor Classifications



Threat Actor Required Types (-ov)

- activist
- competitor
- crime-syndicate
- criminal
- hacker
- insider-accidental
- insider-disgruntled
- nation-state
- sensationalist
- spy
- terrorist
- unknown



REQUIRED PROPERTY

Threat Actor Attack Resource Level (-ov)

individual

team

club

organization

contest

government

OPTIONAL PROPERTY



Threat Actor Motivations (-ov)*

accidental

coercion

dominance

ideology

notoriety

organizational gain

personal-gain

personal-satisfaction

revenge

unpredictable

OPTIONAL PROPERTY

* Primary, Secondary & Personal

Threat Actor Roles (-ov)

agent

director

independent

infrastructure-architect

infrastructure-operator

malware-author

sponsor



OPTIONAL PROPERTY

Threat Actor Sophistication (-ov)

none

expert

minimal

innovator

intermediate

strategic

advanced

OPTIONAL PROPERTY

