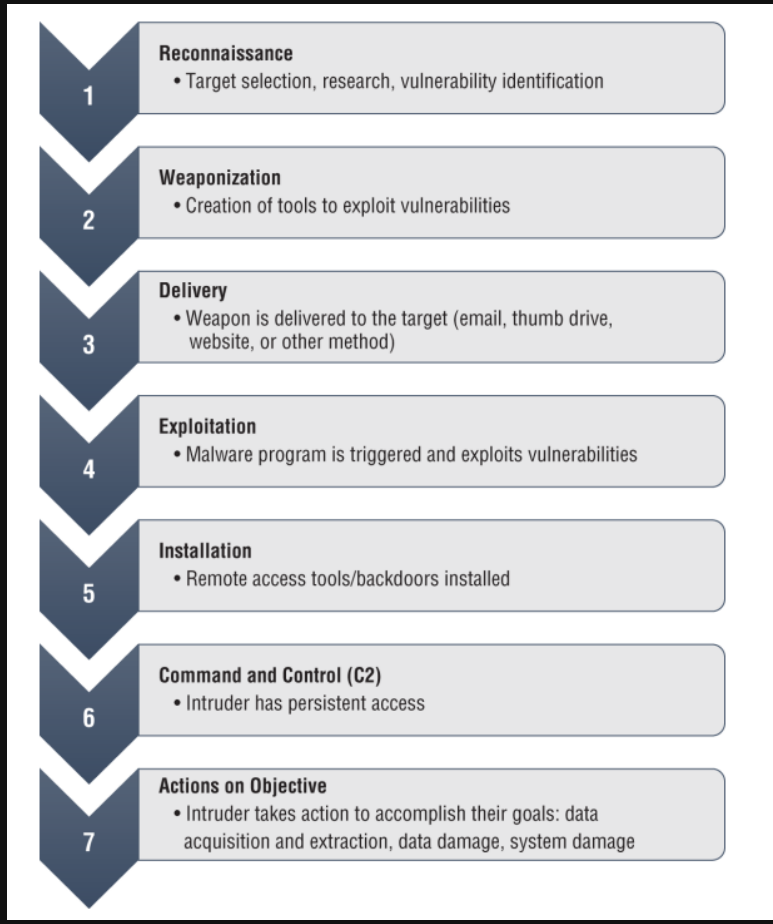


Incident responders frequently need ways to describe attacks and incidents using common language and terminology.



## Attack Frameworks and Identifying Attacks

### MITRE's ATT&CK

Includes detailed descriptions, definitions, and examples for the complete threat lifecycle from initial access through execution, persistence, privilege escalation, and exfiltration.

At each level, it lists techniques and components, allowing threat assessment modeling to leverage common descriptions and knowledge.

ATT&CK matrices include pre-attack, enterprise matrices focusing on Windows, macOS, Linux, and cloud computing, as well as iOS and Android mobile platforms.

It's the most comprehensive freely available database and it has broad support in a variety of security tools

<http://attack.mitre.org/>

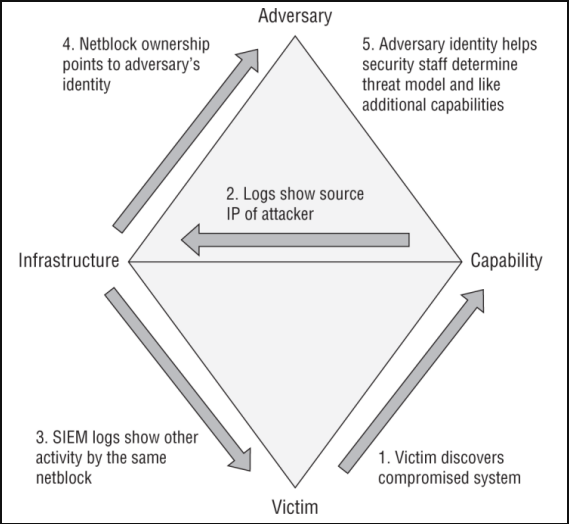
The Diamond Model of Intrusion Analysis describes a sequence where an adversary deploys a capability targeted at an infrastructure.

capability here means any tool, technique, resource..

Core Features for an event, which are the adversary, capability, infrastructure, and victim (the vertices of the diamond)

The Meta-Features, which are start and end timestamps, phase, result, direction, methodology, and resources, which are used to order events in a sequence known as an activity thread, as well as for grouping events based on their features

A Confidence Value, which is undefined by the model but that analysts are expected to determine based on their own work



The Diamond Model focuses heavily on understanding the attacker and their motivations, and then uses relationships between these elements to allow defenders to both understand the threat and think about what other data or information they may need to obtain or may already have available.

<http://apps.dtic.mil/dtic/tr/fulltext/u2/a586960.pdf>

### Diamond Model of Intrusion Analysis

### Lockheed Martin's Cyber Kill Chain



[http://www.lockheedmartin.com/content/dam/lockheed-martin/rms/documents/cyber/Gaining\\_the\\_Advantage\\_Cyber\\_Kill\\_Chain.pdf](http://www.lockheedmartin.com/content/dam/lockheed-martin/rms/documents/cyber/Gaining_the_Advantage_Cyber_Kill_Chain.pdf)