DFD and STRIDE Cheat Sheet

Type of Attack	Example Threats	What to target	Property we want	Example Controls
S poofing	Pretending to be someone else	Person/roleMachineFileProcess	Identity Assurance	 Authentication based on key exchange Single-factor, 2FA, multi-factor authentication Offload authentication to another provider Restrict authentication to certain IP ranges
Tampering	Modifying data that should not be modifiable	File / dataMemoryNetworkProcess	Integrity	 Cryptographic integrity mechanisms Enumerated authorized users modify data
R epudiation	Claiming someone didn't do something	LogsDatabaseLocation of logs	Non-Repudiation	Maintain logsDigital signature
Information Disclosure	Exposing information	 Data stores Data in transit Data in memory Data within a process Data within a file/device 	Confidentiality	 Authorized users only see files/database Authorized users only see communication
D enial of Service	Preventing a system from providing service	ProcessData storeData flowNetwork	Availability	 Rate limiting or throttling access to service Real-time monitoring of log files / resources
Elevation of Privilege	Doing things that one isn't supposed to do	 Compromising a process Circumventing authorization Tampering data 	Least Privilege	 System has centralized authorization engine Strong ACLs Limits to writing data to higher integrity levels Roles / accounts or permissions

Data Flow Diagram Stencils

External Interactor	External Interactor / Entity – systems, users, - "static" elements ("We don't own or control")		
Process	Process (single circle) or Complex Process (double circle) – handles/processes/moves data ("We own or control")		
Data Flow	Data Flow – direction data flows		
Data Store	Data Store – data storage such as databases, file systems, caches		
Trust Boundary	Trust Boundary – change of trust levels		