

Phase IV - Eradication

- ☐ 1. Perform each below activity and detail chain of custody:
 - ☐ 1.1 Memory image all affected systems, including input data in scoring queues
 - ☐ 1.2 Seize affected system hard drives and replace with new drives and clean images:
 - ☐ If hard drives cannot be collected, use forensic imaging tools, wipe clean and reimage
 - ☐ 1.3 Retain all:
 - ☐ AI system training data
 - ☐ AI system training and data preparation software:
 - ☐ Open source and third-party packages
 - ☐ AI system input data scoring software:
 - ☐ Open source and third-party packages
 - ☐ PCAP and network information
 - ☐ Pertinent AI system documentation
 - ☐ 1.4 Create MD5 and SHA256 hashes for collected images and other artifacts
 - ☐ 1.5 Formally associate all collected evidence with current incident using case numbers or similar method

2. For AI failures:

- ☐ Temporarily shutdown or replace affected AI system:
 - ☐ If shutdown is not operationally feasible, temporarily replace affected AI system with:
 - ☐ Business rules
 - ☐ Human analysts or case workers
 - ☐ Trusted benchmark models
 - ☐ Trusted past champion models
 - ☐ Test replacement system for accuracy in addition to problems specific to the current incident (e.g., discrimination, feedback loops, instability)
 - ☐ Deploy temporary replacement system

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3. For AI attacks:

- ☐ Close all vectors of attack, ex-filtration, and re-infection:
 - ☐ Authenticate AI endpoints
 - ☐ Address vectors of re-infection specific to the current incident
 - ☐ Close network vectors of ex-filtration:
 - ☐ Address ex-filtration techniques used specifically in the current incident
 - ☐ HTTPS inspection via proxy and SSL intercept
 - ☐ Prohibit outbound encrypted traffic except for known, authorized peers
 - ☐ Impose data integrity constraints on input data in scoring queues:
 - ☐ Unrealistic value combinations
 - ☐ Duplicates
 - ☐ Training data
 - ☐ Throttle AI endpoints

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