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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Phase IV - Eradication (Cont.)

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