

Deduction Mysteries

CASE 01

A signed binary release was extracted from the war room of Quartermaine Cyber during the overnight window between 02:30 and 05:15. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Talia (senior engineer), Damaris (product manager), Joren (intern), Dimitri (data scientist), Rhys (CTO), Aurora (security analyst), Emiko (site-reliability engineer). Several have strong-looking motives.

Q Who extracted the signed binary release?

1. But: however VPN session record records show they re-authenticated from an internal network at 2:10.
2. Four independent requirements: clearance to the restricted archive, documented hands-on history with the item, presence between 02:30 and 05:15, and familiarity with the security routing.
3. Rhys had financial pressure – appears to have motive.
4. Rhys has familiarity with the security routing and clearance to the restricted archive and documented hands-on history with the item – initial suspicion was high.
5. The trace at the scene (a seal cut with a serial pattern from a specific supply) ties directly to inventory or systems uniquely accessible to Joren.
6. Damaris's witness colleague shows them off-site the entire window.
7. Aurora's SSH authentication log shows them off-site the entire window.
8. Talia has familiarity with the security routing and clearance to the restricted archive – initial suspicion was high.
9. Emiko clashed publicly with management – appears to have motive.
- 10 However: Rhys is cleared – but two independent witnesses confirm a video call with them throughout the window.
- 11 Joren claims to have exited the building at 23:45 – the official badge log confirms this.
- 12 ~~However: Emiko is cleared – but CCTV camera places them at the hospital with a family emergency~~
during the entire window.

CASE 02

A calibration kit was swapped from the centrifuge bay of Helix Bioresearch during the overnight window between 01:15 and 04:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Odell (postdoctoral researcher), Kasimir (clinical coordinator), Faye (lab technician), Thora (visiting scientist), Tatum (graduate student), Eleni (operations manager), Mei (safety officer). Several have strong-looking motives.

Q Who swapped the calibration kit?

1. However: Tatum is cleared – but their biohazard clearance was revoked the day before – confirmed in the security audit.
2. The sample tampering involved an encryption signature tied to the internal training network.
3. Kasimir clashed publicly with management – appears to have motive.
4. Odell was officially signed out at 23:10 via the front-desk register.
5. However: Kasimir is cleared – but two independent witnesses confirm a video call with them throughout the window.
6. Thora had financial pressure – appears to have motive.
7. Faye's equipment timestamp shows them off-site the entire window.
8. Eleni lacks a master key issued only to senior staff – confirmed by personnel records.
9. Mei's clean-room entry log shows them off-site the entire window.
- 10 Tatum has a master key issued only to senior staff and familiarity with the security routing – initial suspicion was high.
- 11 Kasimir has familiarity with the security routing and a master key issued only to senior staff and a verified relationship with the donor – initial suspicion was high.
- 12 Four independent requirements: a master key issued only to senior staff, a verified relationship with the donor, presence between 01:15 and 04:00, and familiarity with the security routing.

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CASE 03

The locker contents were taken from the coach's office of Pemberton Stadium during the overnight window between 02:30 and 05:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Dario (rookie player), Marisol (team statistician), Vidal (referee), Finnegan (star player), Nikolai (assistant coach), Sora (equipment manager), Ula (head coach). Several have strong-looking motives.

Q Who took the locker contents?

1. However: Marisol is cleared – but witness teammate places them at the hospital with a family emergency during the entire window.
2. Finnegan has knowledge of the seal serial pattern and clearance to the restricted archive – initial suspicion was high.
3. But: however the pedestrian-door sensor shows their vehicle remained in the lot until well after 02:30.
4. However: Vidal is cleared – but their equipment-room key was revoked the day before – confirmed in the security audit.
5. Vidal clashed publicly with management – appears to have motive.
6. Vidal has knowledge of the seal serial pattern and clean-room or vault clearance – initial suspicion was high.
7. Four independent requirements: clearance to the restricted archive, clean-room or vault clearance, presence between 02:30 and 05:45, and knowledge of the seal serial pattern.
8. Finnegan had financial pressure – appears to have motive.
9. Marisol has clean-room or vault clearance and clearance to the restricted archive – initial suspicion was high.
- 10 Ula has only clearance to the restricted archive of the four requirements.

CASE 04

The hospital ID badges were taken from the intensive care wing of Pemberton Medical during the overnight window between 00:30 and 04:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Cedric (pharmacist), Ravi (head nurse), Magnus (attending physician), Aurora (security officer), Faye (social worker), Daphne (medical resident), Elara (volunteer). Several have strong-looking motives.

Q Who took the hospital ID badges?

1. Ravi was officially signed out at 22:20 via the front-desk register.
2. The theft involved a hand-machined tool stocked in only one closet.
3. Cedric has administrator credentials and elevated system privileges and knowledge of the seal serial pattern – initial suspicion was high.
4. However: Magnus is cleared – but pharmacy CCTV places them at the hospital with a family emergency during the entire window.
5. However: Cedric is cleared – but two independent witnesses confirm a video call with them throughout the window.
6. However: Faye is cleared – but medication audit places them at the hospital with a family emergency during the entire window.
7. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Ravi.
8. Magnus has administrator credentials and knowledge of the seal serial pattern – initial suspicion was high.
9. Faye has administrator credentials and elevated system privileges – initial suspicion was high.
- 10 Faye filed a grievance two weeks ago – appears to have motive.

Deduction Mysteries

CASE 05

A prototype assembly was taken from the welding bay of Aldermarsh Auto Works during the overnight window between 01:45 and 04:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Kalinda (electrician), Tomas (painter), Sami (parts clerk), Idris (master mechanic), Dario (welder), Dimitri (apprentice), Nizar (quality inspector), Joren (machinist). Several have strong-looking motives.

Q Who took the prototype assembly?

1. Joren has all four requirements: elevated system privileges, documented hands-on history with the item, possession of the specific tool used, and meets the temporal requirement (presence between 01:45 and 04:30).
2. Sami filed a grievance two weeks ago – appears to have motive.
3. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Joren.
4. Nizar has only documented hands-on history with the item of the four requirements.
5. Tomas has possession of the specific tool used and elevated system privileges – initial suspicion was high.
6. Initial assumption pointed to Nizar because of being seen near the building, but this has been independently ruled out.
7. Kalinda has only documented hands-on history with the item of the four requirements.
8. Tomas clashed publicly with management – appears to have motive.
9. However: Sami is cleared – but two independent witnesses confirm a video call with them throughout the window.
- 10 However: Dimitri is cleared – but they were on a documented overnight flight, verified by airline records.

CASE 06

A client contract data was extracted from the war room of Meridian Data during the overnight window between 02:00 and 06:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Mira (site-reliability engineer), Eleni (data scientist), Hiroshi (product manager), Ula (CTO), Cyrus (senior engineer), Zara (security analyst), Gisela (intern). Several have strong-looking motives.

Q Who extracted the client contract data?

1. Mira filed a grievance two weeks ago – appears to have motive.
2. However: Eleni is cleared – but CCTV camera places them at the hospital with a family emergency during the entire window.
3. Eleni has administrator credentials and elevated system privileges – initial suspicion was high.
4. Mira has elevated system privileges and familiarity with the security routing – initial suspicion was high.
5. Cyrus has all four requirements: elevated system privileges, administrator credentials, familiarity with the security routing, and meets the temporal requirement (presence between 02:00 and 06:45).
6. Gisela's VPN session log shows them off-site the entire window.
7. Cyrus claims to have exited the building at 23:45 – the official badge log confirms this.
8. Zara lacks elevated system privileges – confirmed by personnel records.
9. However: Hiroshi is cleared – but CCTV camera places them at the hospital with a family emergency during the entire window.
- 10 Eleni had financial pressure – appears to have motive.
- 11 Four independent requirements: elevated system privileges, administrator credentials, presence between 02:00 and 06:45, and familiarity with the security routing.

Answer Key – Deduction Mysteries

Solve before peeking. Correct suspect and key reasoning steps below.

Case 01 B) Joren

- ☒ Four requirements (clearance to the restricted archive, documented hands-on history with the item, presence between 02:30 and 05:15, familiarity with the security routing) plus a unique technical trace narrow the case.
 - ☒ Emiko appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 02 D) Odell

- ☒ Four requirements (a master key issued only to senior staff, a verified relationship with the donor, presence between 01:15 and 04:00, familiarity with the security routing) plus a unique technical trace narrow the case.
 - ☒ Thora appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 03 B) Sora

- ☒ Four requirements (clearance to the restricted archive, clean-room or vault clearance, presence between 02:30 and 05:45, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
 - ☒ Marisol appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 04 undefined) Ravi

- ☒ Four requirements (elevated system privileges, administrator credentials, presence between 00:30 and 04:45, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
 - ☒ Cedric appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 05 A) Joren

- ☒ Four requirements (elevated system privileges, documented hands-on history with the item, presence between 01:45 and 04:30, possession of the specific tool used) plus a unique technical trace narrow the case.
 - ☒ Dimitri appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 06 B) Cyrus

- ☒ Four requirements (elevated system privileges, administrator credentials, presence between 02:00 and 06:45, familiarity with the security routing) plus a unique technical trace narrow the case.
 - ☒ Hiroshi appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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