

## Deduction Mysteries

### CASE 01

The quarterly financials were extracted from the SOC operations center of Northgate Systems during the overnight window between 00:30 and 04:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Sigrid (data scientist), Hadley (site-reliability engineer), Akhil (security analyst), Mauro (DevOps lead), Joren (senior engineer), Ramona (product manager), Rhys (intern), Helena (CTO). Several have strong-looking motives.

#### Q Who extracted the quarterly financials?

1. Sigrid lacks a verified relationship with the donor – security audit confirms.
2. But: however the unsecured pedestrian door doesn't require a badge to re-enter.
3. Joren lacks elevated system privileges – confirmed by personnel records.
4. Helena claims to have exited the building at 23:15 – the official badge log confirms this.
5. Initial assumption pointed to Rhys because of being seen near the building, but this has been independently ruled out.
6. Mauro has only familiarity with the security routing of the four requirements.
7. Ramona had financial pressure – appears to have motive.
8. Rhys had financial pressure – appears to have motive.
9. However: Akhil is cleared – but two independent witnesses confirm a video call with them throughout the window.
- 10 Akhil clashed publicly with management – appears to have motive.
- 11 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 Helena.
- 12 Akhil has a verified relationship with the donor and elevated system privileges and familiarity with the security routing – initial suspicion was high.

### CASE 02

A SSL certificate was extracted from the code review room of Helix Tech during the overnight window between 01:45 and 04:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Indira (intern), Kiran (senior engineer), Olive (product manager), Maeve (contractor), Quentin (CTO), Adrian (support lead), Amelia (security analyst), Leila (data scientist). Several have strong-looking motives.

#### Q Who extracted the SSL certificate?

1. Olive clashed publicly with management – appears to have motive.
2. The data theft involved a foam replica skillfully painted with restoration-grade spray paint.
3. Olive has knowledge of the seal serial pattern and after-hours building access and specialized engineering certification – initial suspicion was high.
4. Maeve has knowledge of the seal serial pattern and specialized engineering certification and after-hours building access – initial suspicion was high.
5. Leila's CCTV camera shows them off-site the entire window.
6. Maeve was passed over for a recent promotion – appears to have motive.
7. But: however pedestrian-door sensor records show they re-authenticated from an internal network at 2:50.
8. Kiran was officially signed out at 23:25 via the front-desk register.
9. Amelia has specialized engineering certification and after-hours building access and knowledge of the seal serial pattern – initial suspicion was high.
- 10 Amelia had financial pressure – appears to have motive.
- 11 Four independent requirements: specialized engineering certification, after-hours building access, . presence between 01:45 and 04:30, and knowledge of the seal serial pattern.

## Deduction Mysteries

### CASE 03

An expensive welding rod was taken from the employee locker area of Pemberton Repair during the overnight window between 02:15 and 05:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Zara (master mechanic), Yvonne (quality inspector), Aiko (apprentice), Iolanthe (painter), Wilder (customer service rep), Indira (machinist), Cedric (welder), Bayan (parts clerk). Several have strong-looking motives.

#### Q Who took the expensive welding rod?

1. Aiko has all four requirements: specialized engineering certification, clean-room or vault clearance, familiarity with the security routing, and meets the temporal requirement (presence between 02:15 and 05:15).
2. Yvonne had financial pressure – appears to have motive.
3. But: however the parking-lot camera shows their vehicle remained in the lot until well after 02:15.
4. However: Zara is cleared – but tool-checkout log places them at the hospital with a family emergency during the entire window.
5. However: Wilder is cleared – but they were on a documented overnight flight, verified by airline records.
6. Four independent requirements: specialized engineering certification, clean-room or vault clearance, presence between 02:15 and 05:15, and familiarity with the security routing.
7. Zara has clean-room or vault clearance and familiarity with the security routing – initial suspicion was high.
8. Iolanthe has only specialized engineering certification of the four requirements.
9. Wilder has familiarity with the security routing and specialized engineering certification – initial suspicion was high.
- 10 Indira has only familiarity with the security routing of the four requirements.

### CASE 04

The tax records were taken from the storage basement of Northgate Estate Archive during the overnight window between 00:30 and 03:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Wren (records administrator), Kasimir (security officer), Gisela (intern), Nizar (clerk), Ulla (administrator), Ezra (volunteer), Aurora (researcher). Several have strong-looking motives.

#### Q Who took the tax records?

1. However: Kasimir is cleared – but witness patron places them at the hospital with a family emergency during the entire window.
2. Nizar has elevated system privileges and possession of the specific tool used – initial suspicion was high.
3. However: Nizar is cleared – but two independent witnesses confirm a video call with them throughout the window.
4. Gisela claims to have exited the building at 22:10 – the official badge log confirms this.
5. However: Aurora is cleared – but they were on a documented overnight flight, verified by airline records.
6. Kasimir had financial pressure – appears to have motive.
7. Initial assumption pointed to Nizar because of public friction with management, but this has been independently ruled out.
8. The theft involved a foam replica skillfully painted with restoration-grade spray paint.
9. Four independent requirements: elevated system privileges, after-hours building access, presence between 00:30 and 03:45, and possession of the specific tool used.
- 10 Kasimir has elevated system privileges and possession of the specific tool used – initial suspicion was high.

## Deduction Mysteries

### CASE 05

A signed binary release was extracted from the testing lab of Helix Tech during the overnight window between 01:00 and 04:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Vera (site-reliability engineer), Beatrix (support lead), Tatum (security analyst), Tariq (CTO), Bram (intern), Zinnia (DevOps lead), Olive (contractor). Several have strong-looking motives.

#### Q Who extracted the signed binary release?

1. Olive lacks after-hours building access – security audit confirms.
2. Zinnia filed a grievance two weeks ago – appears to have motive.
3. However: Vera is cleared – but badge swipe places them at the hospital with a family emergency during the entire window.
4. Four independent requirements: elevated system privileges, after-hours building access, presence between 01:00 and 04:30, and familiarity with the security routing.
5. However: Zinnia is cleared – but two independent witnesses confirm a video call with them throughout the window.
6. Beatrix lacks elevated system privileges – confirmed by personnel records.
7. Tariq has only familiarity with the security routing of the four requirements.
8. Vera has after-hours building access and familiarity with the security routing – initial suspicion was high.
9. But: however the unsecured side stairwell doesn't require a badge to re-enter.
- 10 Vera filed a grievance two weeks ago – appears to have motive.
- 11 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 Tatum.
- 12 Initial assumption pointed to Vera because of proximity to the scene earlier, but this has been  
independently ruled out.

### CASE 06

A VIP patient file was taken from the administrator office of Aldermarsh Clinic during the overnight window between 02:15 and 06:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Hiroshi (head nurse), Tarek (security officer), Mauro (volunteer), Faye (administrator), Tatum (janitor), Alessio (attending physician), Quentin (pharmacist), Sora (social worker). Several have strong-looking motives.

#### Q Who took the VIP patient file?

1. Mauro's medication audit shows them off-site the entire window.
2. Tatum lacks specialized engineering certification – confirmed by personnel records.
3. However: Faye is cleared – but their pharmacy key was revoked the day before – confirmed in the security audit.
4. Quentin's door sensor shows them off-site the entire window.
5. Sora filed a grievance two weeks ago – appears to have motive.
6. Hiroshi has all four requirements: specialized engineering certification, clean-room or vault clearance, possession of the specific tool used, and meets the temporal requirement (presence between 02:15 and 06:30).
7. Alessio had financial pressure – appears to have motive.
8. But: however parking-lot camera records show they re-authenticated from an internal network at 2:35.
9. Sora has specialized engineering certification and possession of the specific tool used – initial suspicion was high.
- 10 Faye was passed over for a recent promotion – appears to have motive.
- 11 Four independent requirements: specialized engineering certification, clean-room or vault clearance, . presence between 02:15 and 06:30, and possession of the specific tool used.

## Answer Key – Deduction Mysteries

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

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### Case 01 C) Helena

- Four requirements (elevated system privileges, a verified relationship with the donor, presence between 00:30 and 04:30, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Akhil appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 02 E) Kiran

- Four requirements (specialized engineering certification, after-hours building access, presence between 01:45 and 04:30, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
  - Maeve appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 03 E) Aiko

- Four requirements (specialized engineering certification, clean-room or vault clearance, presence between 02:15 and 05:15, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Yvonne appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 04 E) Gisela

- Four requirements (elevated system privileges, after-hours building access, presence between 00:30 and 03:45, possession of the specific tool used) plus a unique technical trace narrow the case.
  - Kasimir appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 05 C) Tatum

- Four requirements (elevated system privileges, after-hours building access, presence between 01:00 and 04:30, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Vera appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 06 F) Hiroshi

- Four requirements (specialized engineering certification, clean-room or vault clearance, presence between 02:15 and 06:30, possession of the specific tool used) plus a unique technical trace narrow the case.
- Sora appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.