

How to securely recover business after a security incident

X-Force IR- Thanassis Diogos
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Key learnings

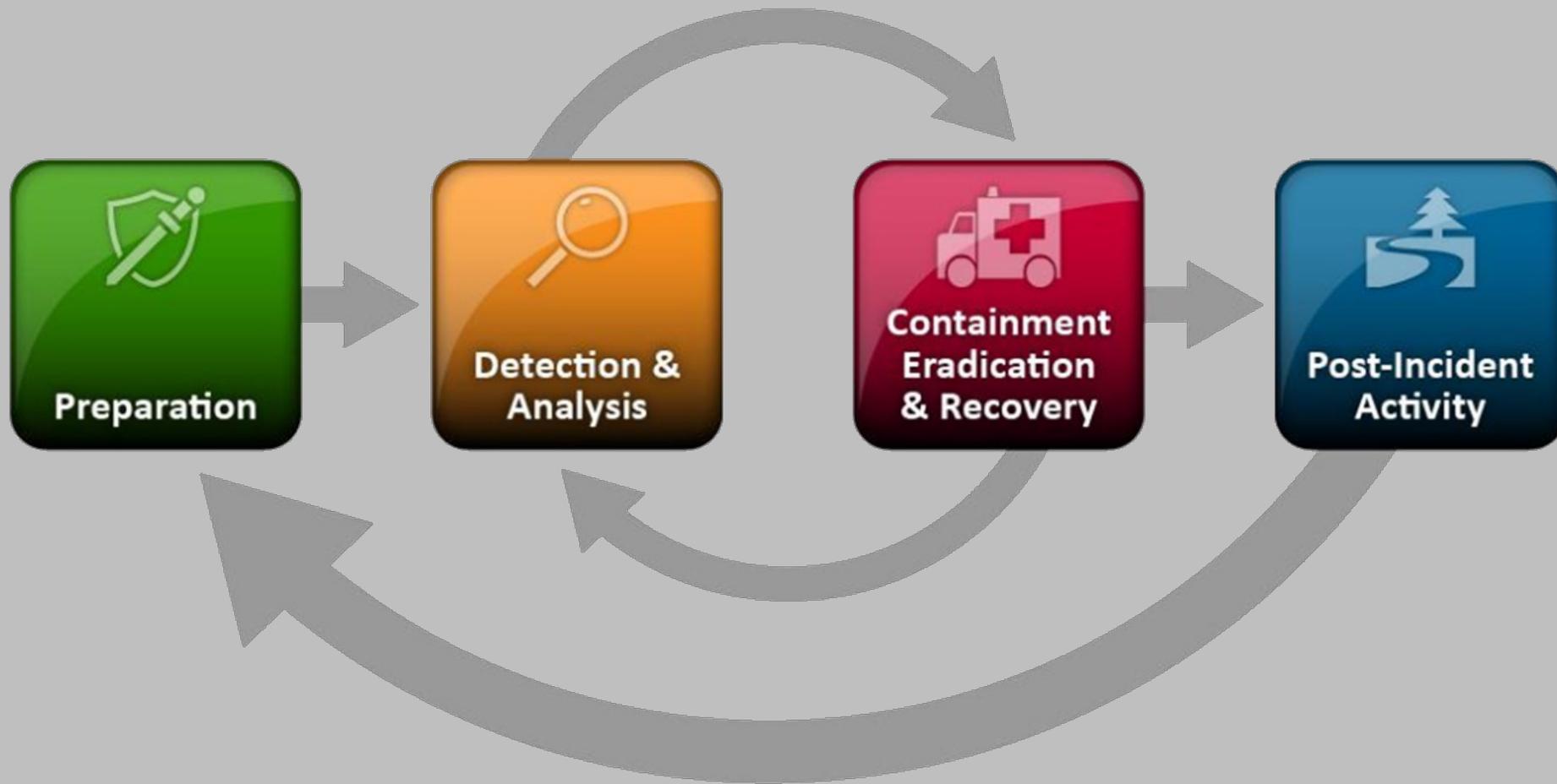
Security breaches and tactical recovery vs business operations.

- Remediation best practices
- Things to avoid
- Post incident reflection



Intro

- ~10 years in IR
- State sponsored cyber attacks
- Wiping incidents (shamoon)
- PCI DSS investigations
- Ransomware cases



Incident Response

Ongoing state

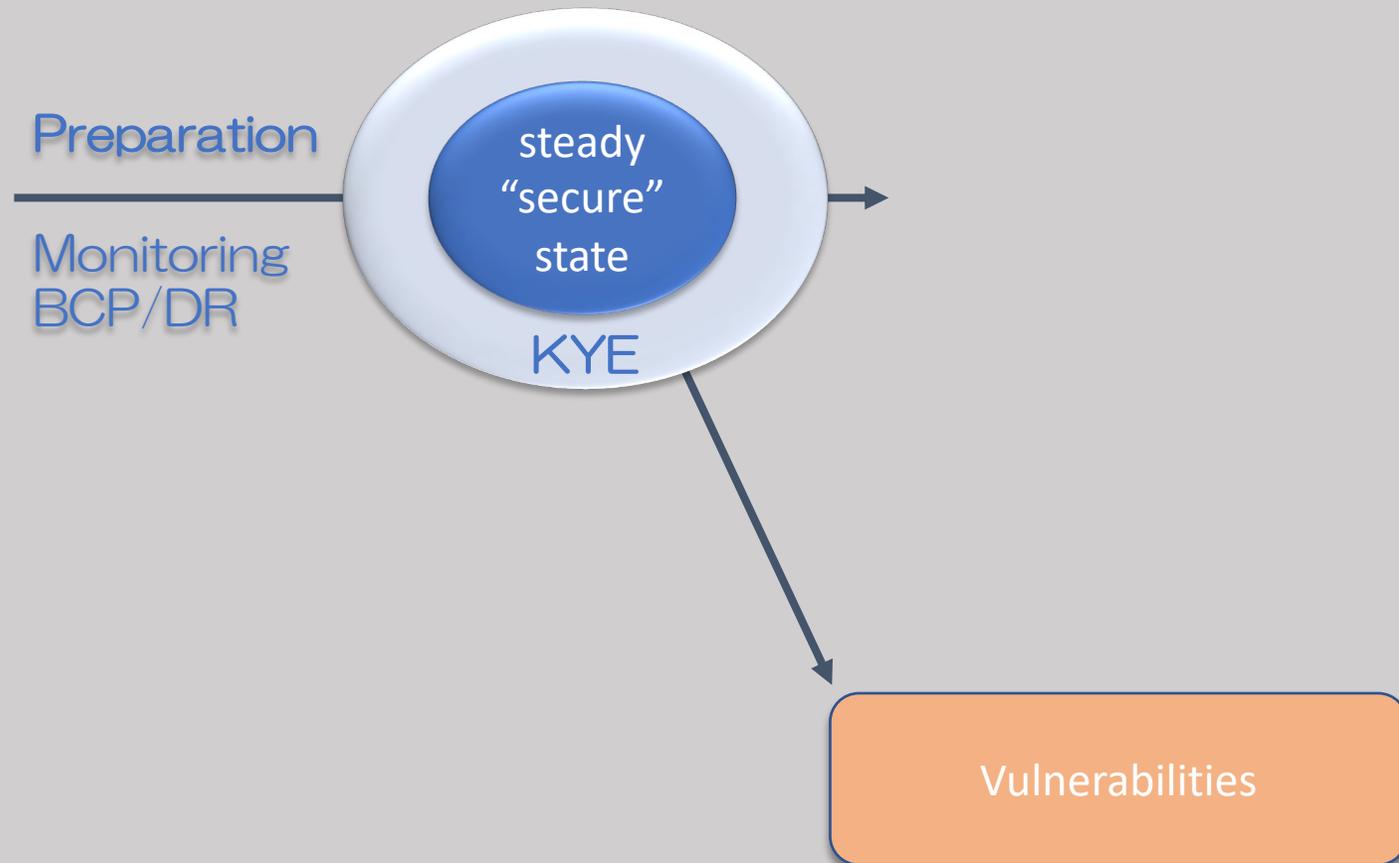


steady
"secure"
state

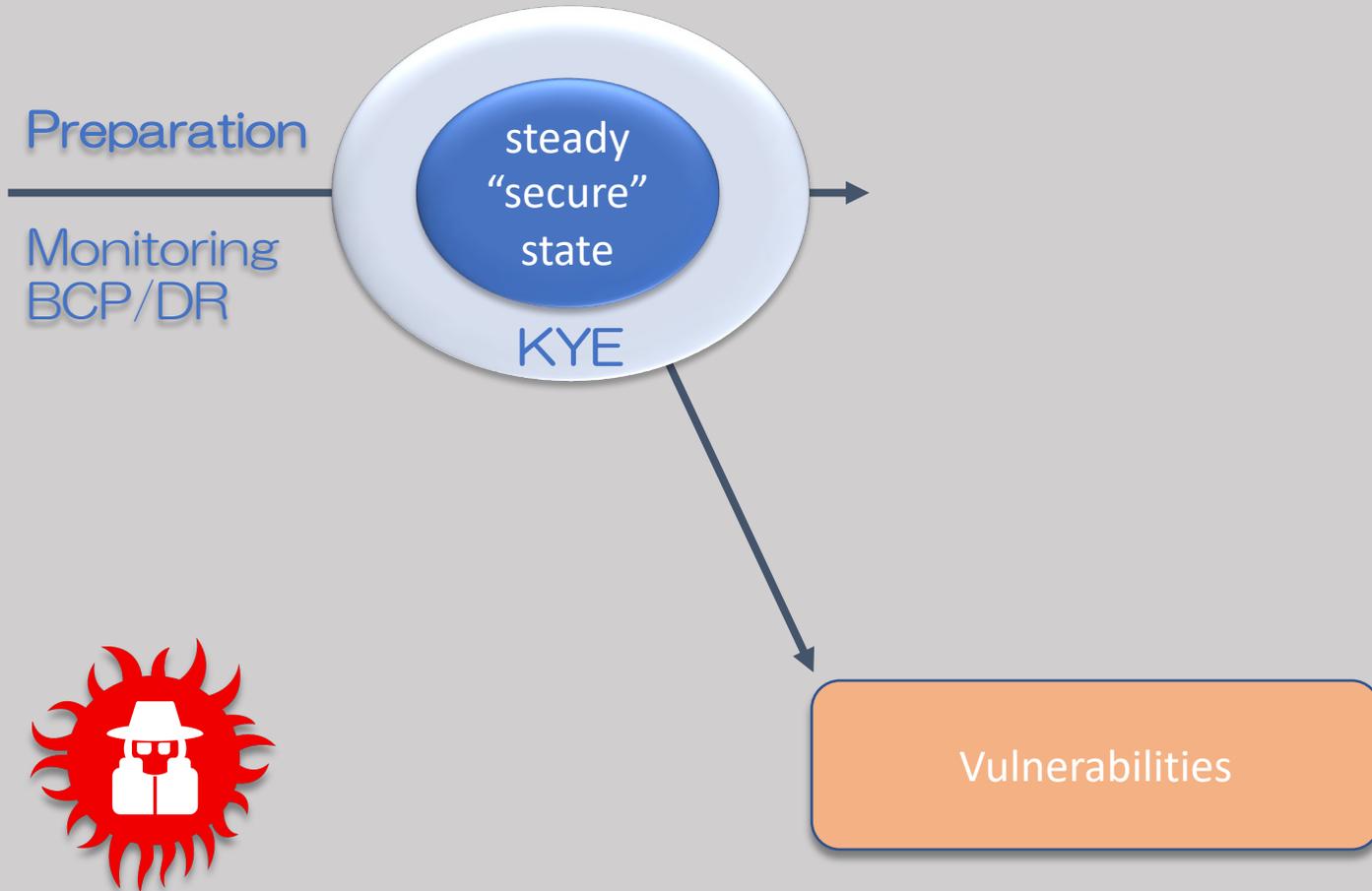
KYE = Know Your Environment



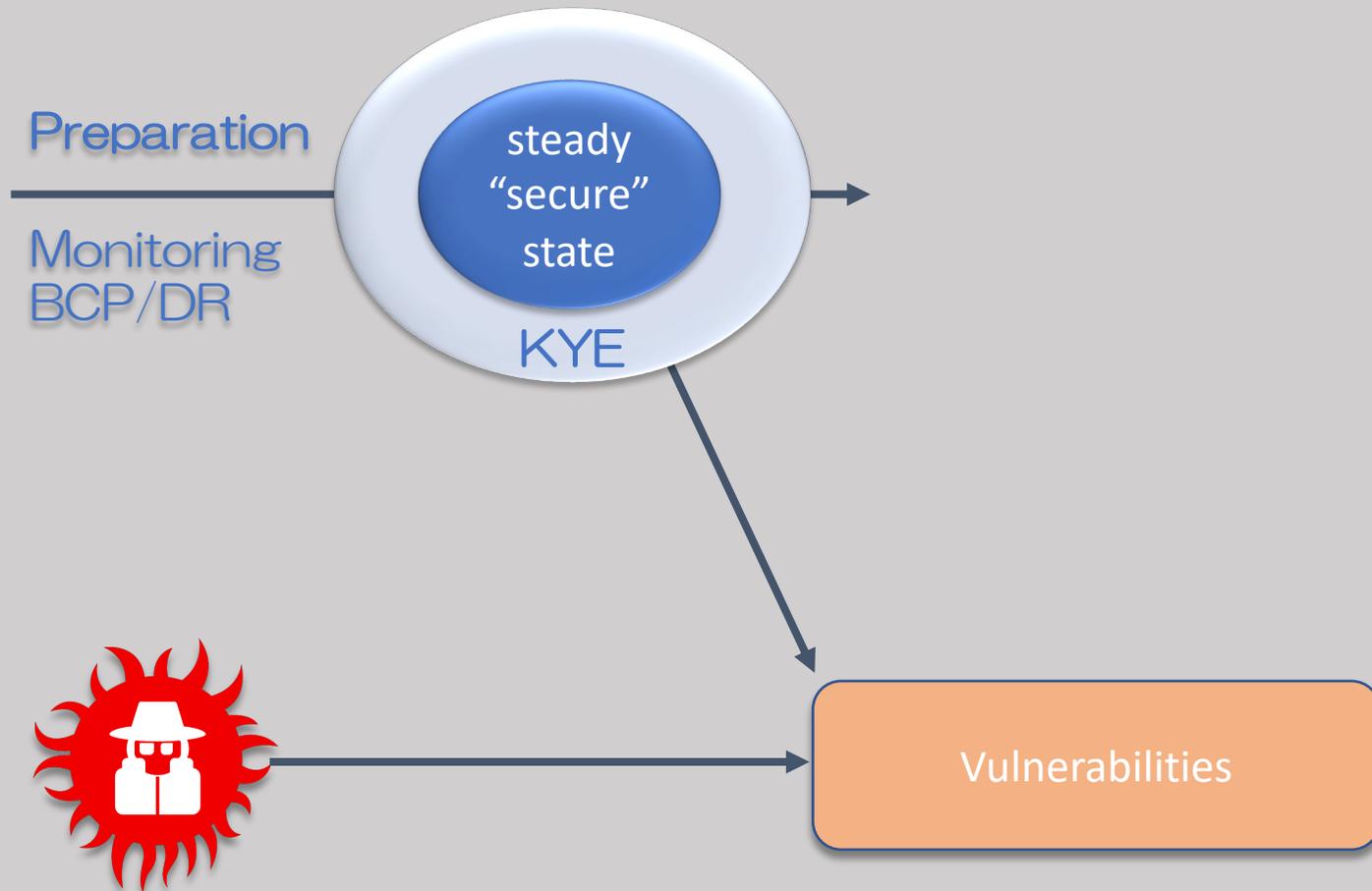
KYE = Know Your Environment

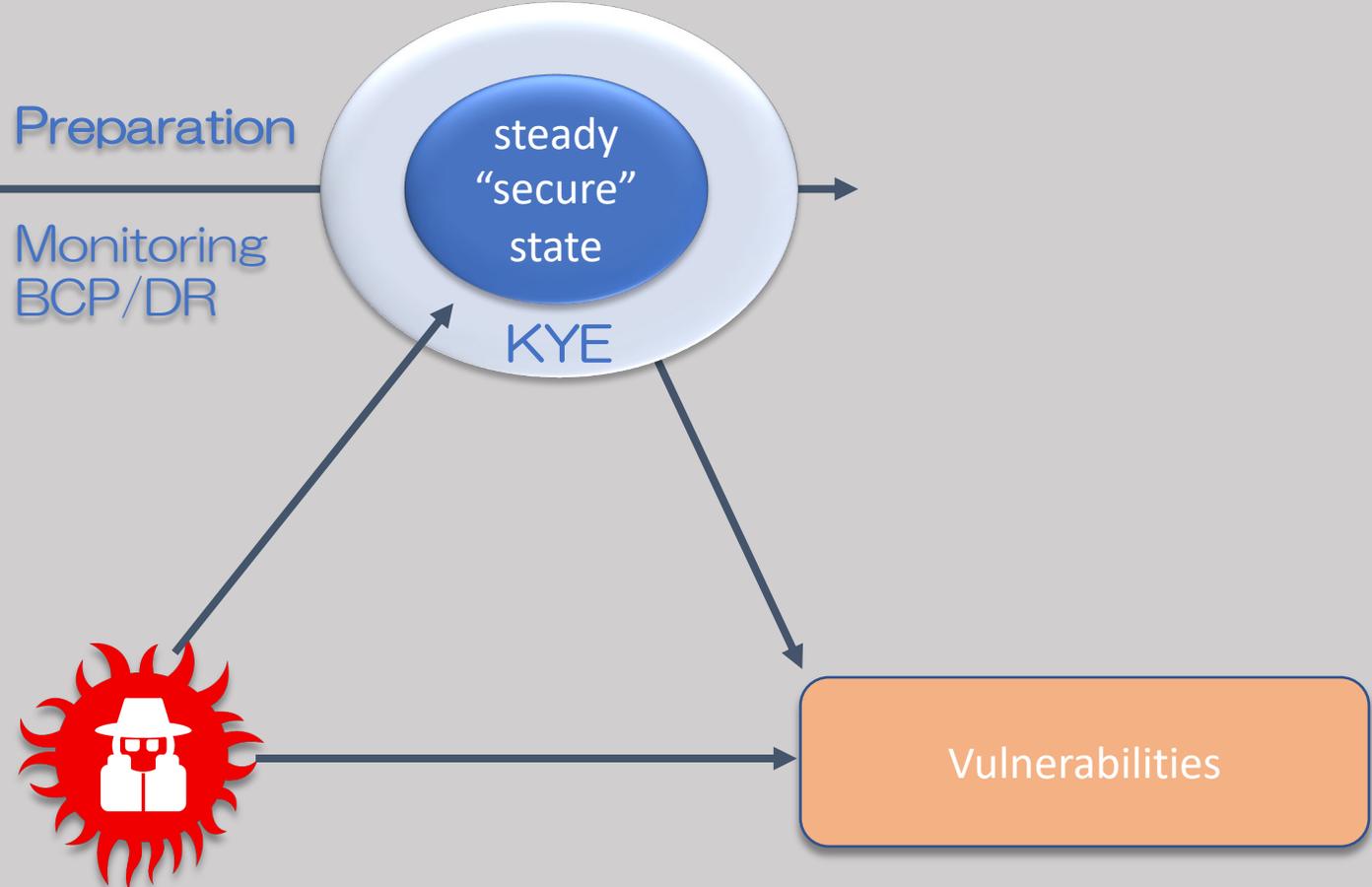


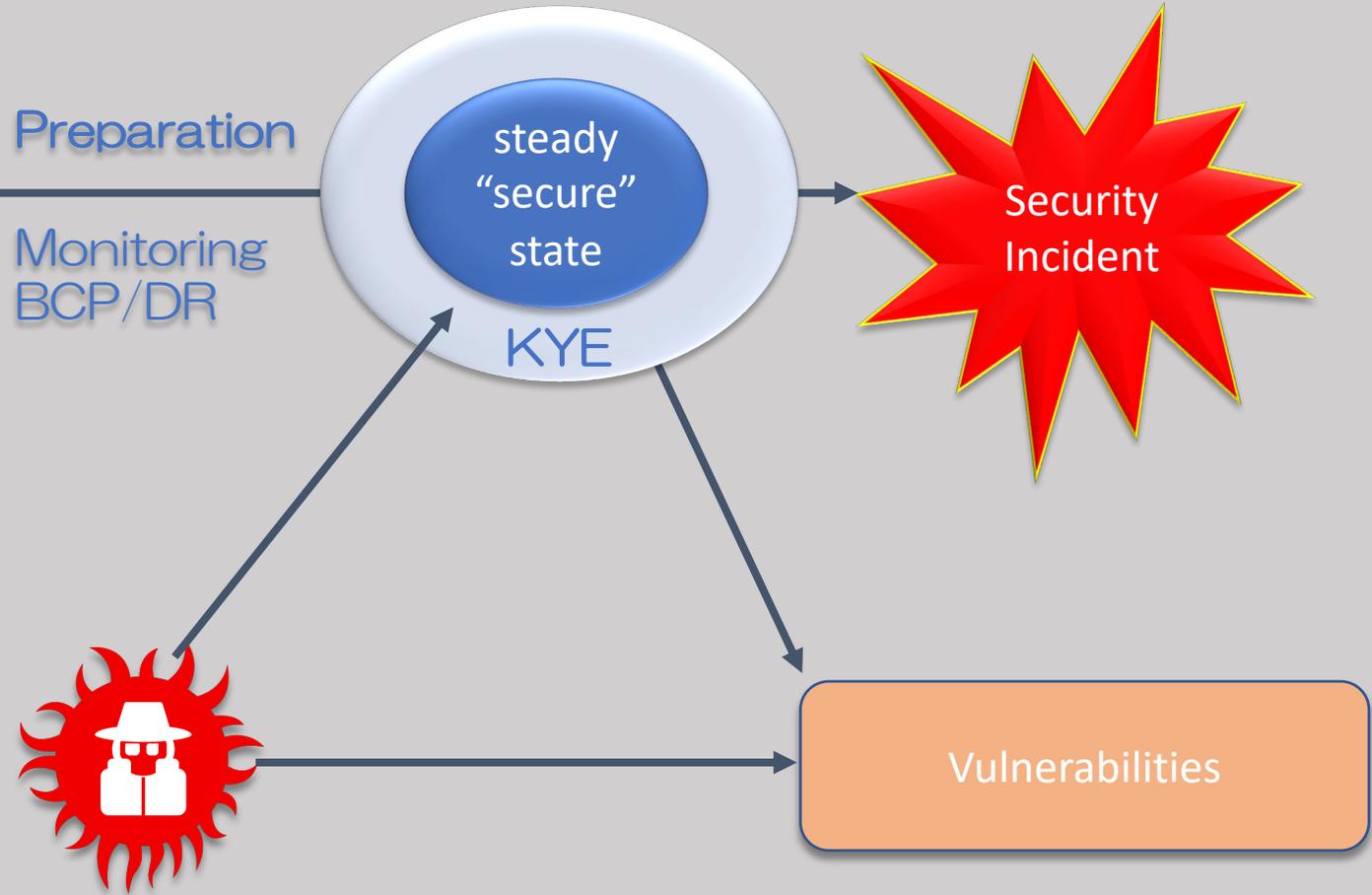
KYE = Know Your Environment
vs
KYE = Know Your Enemy

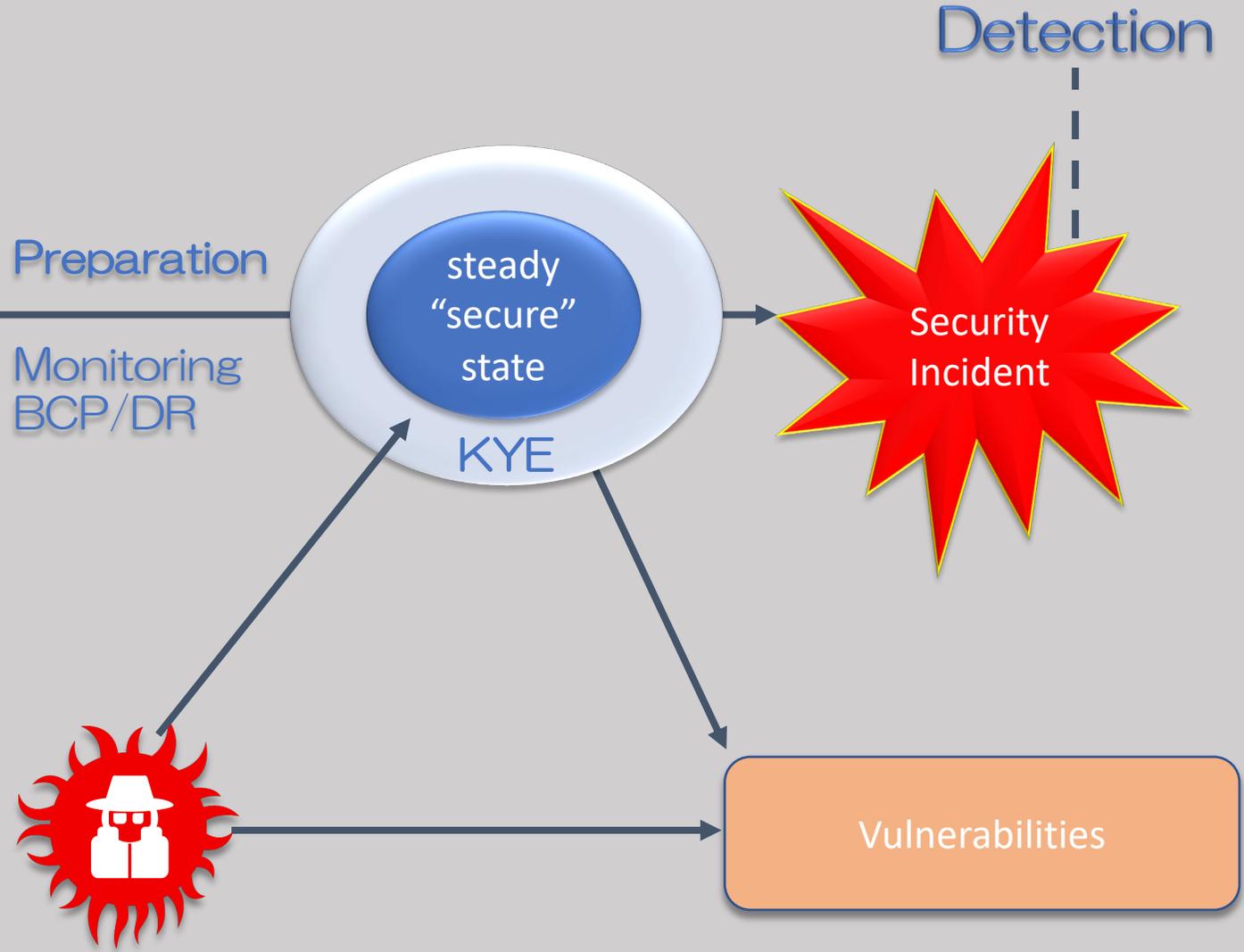


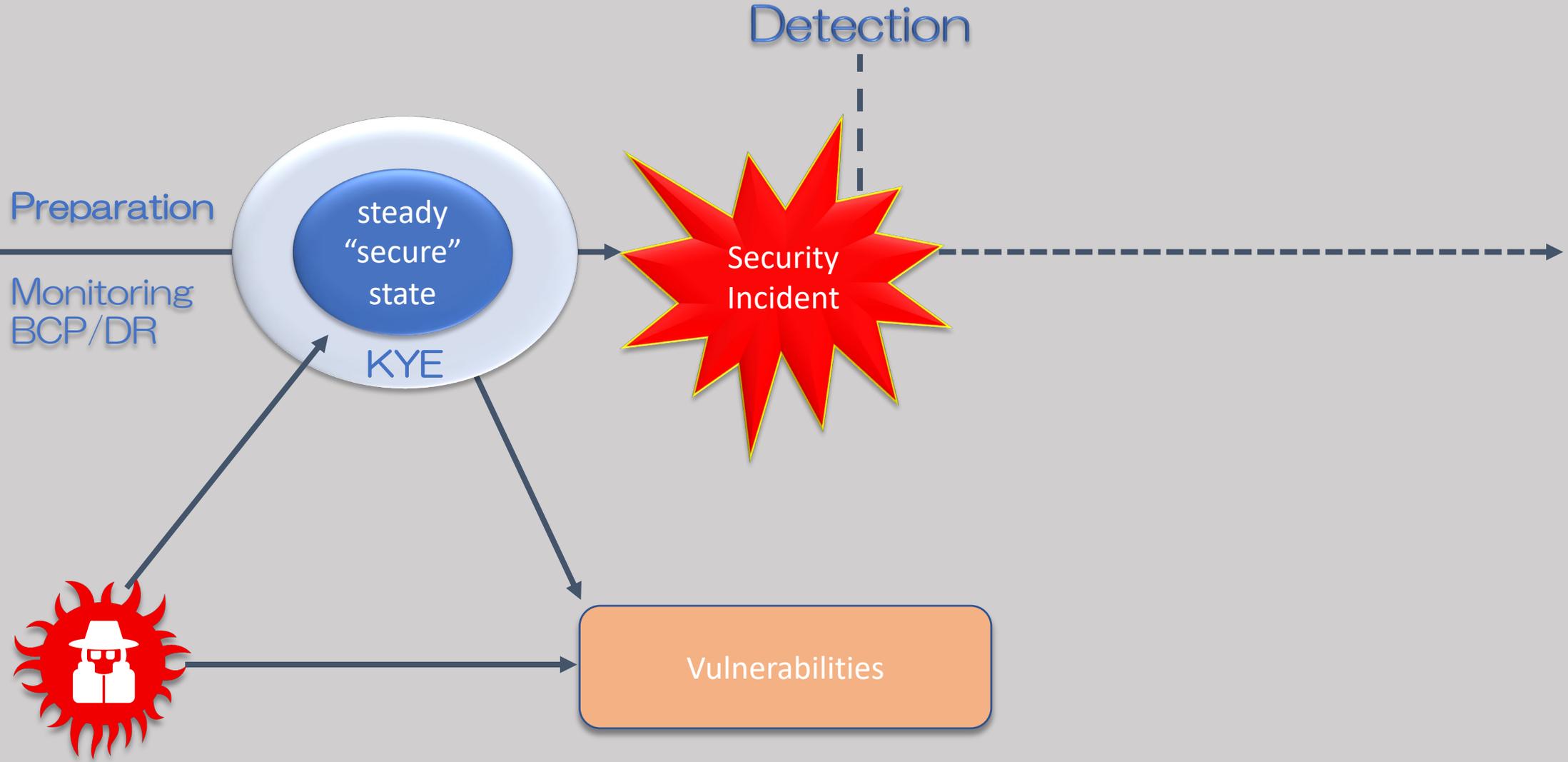
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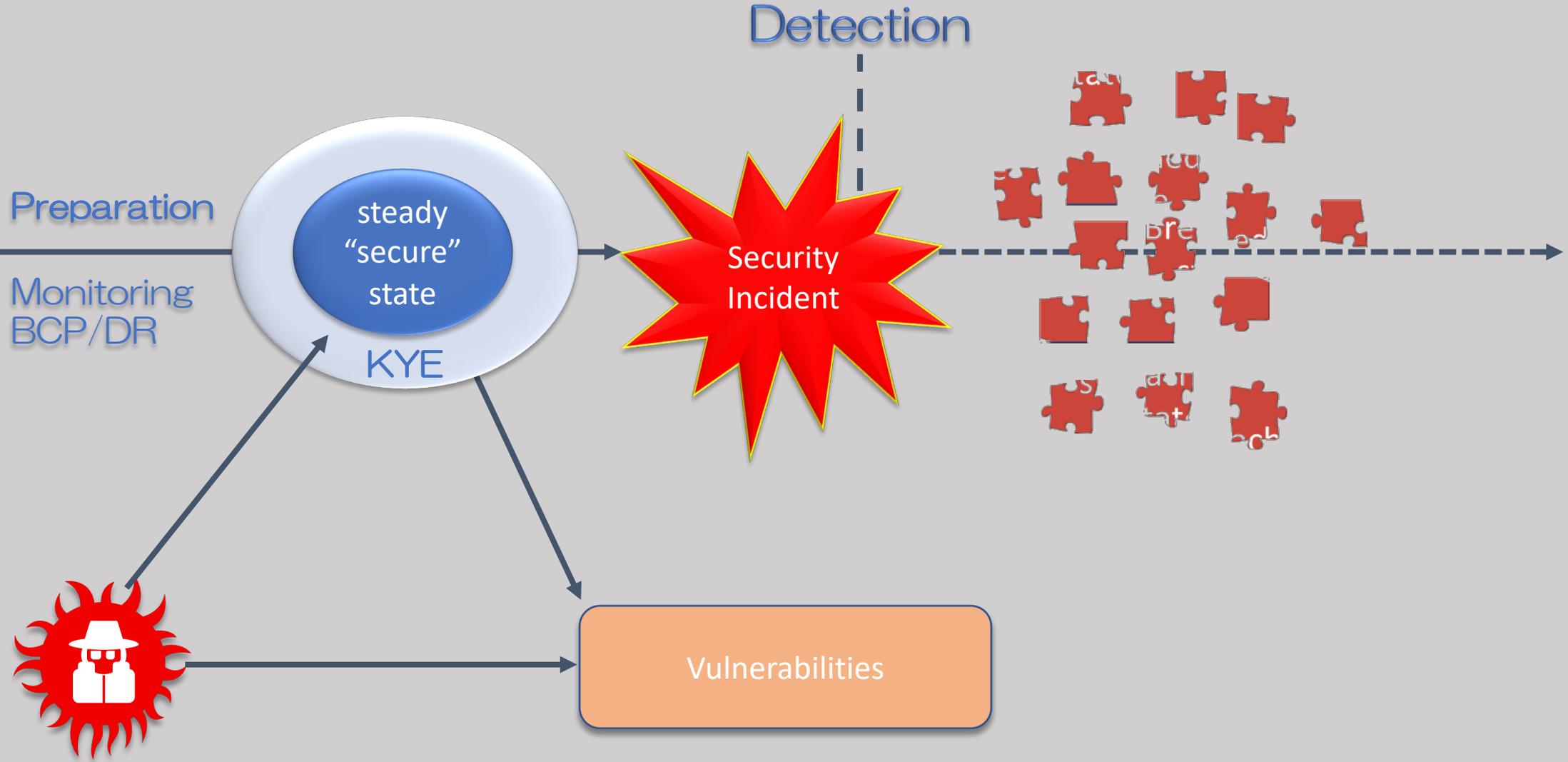


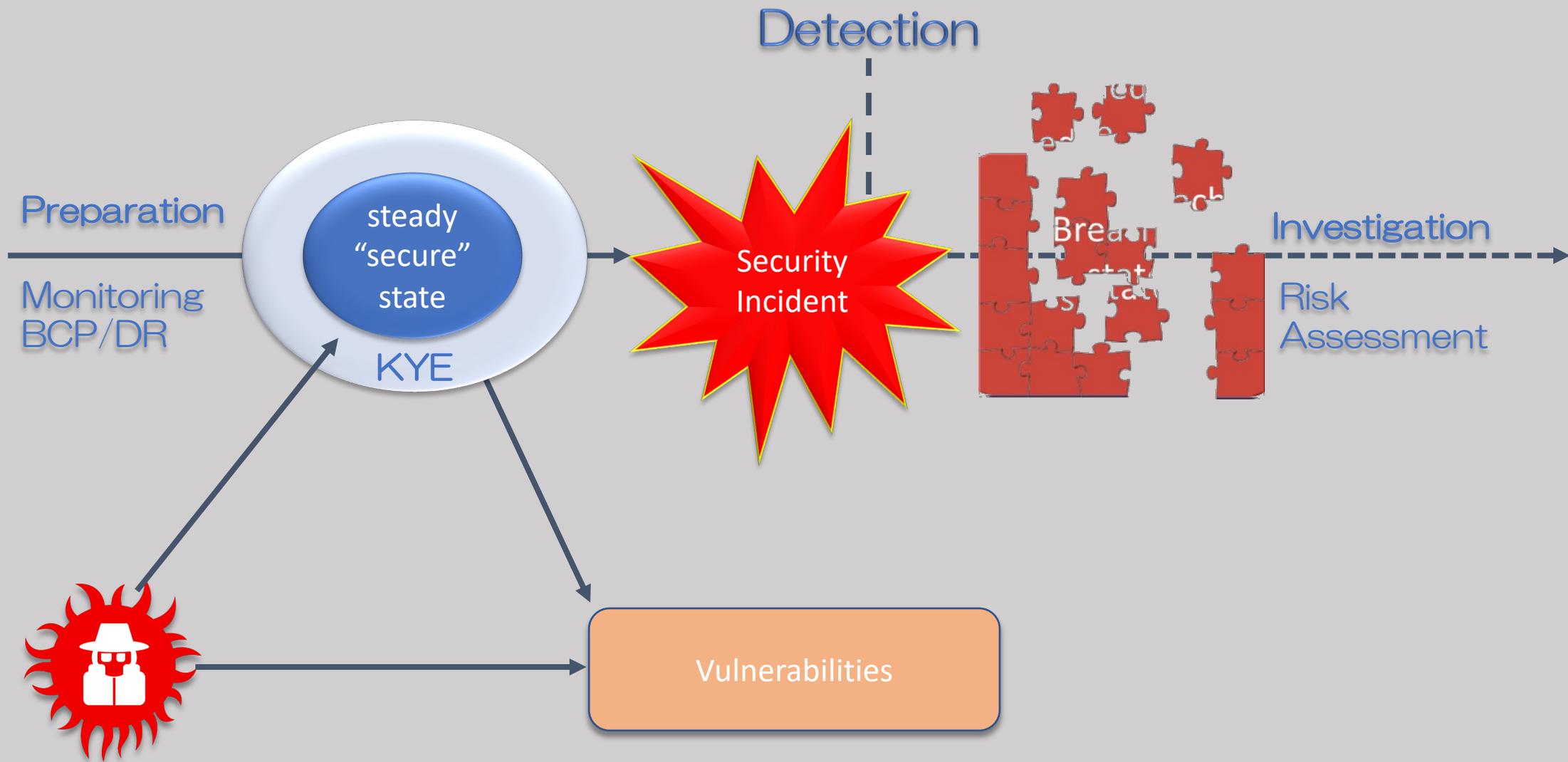


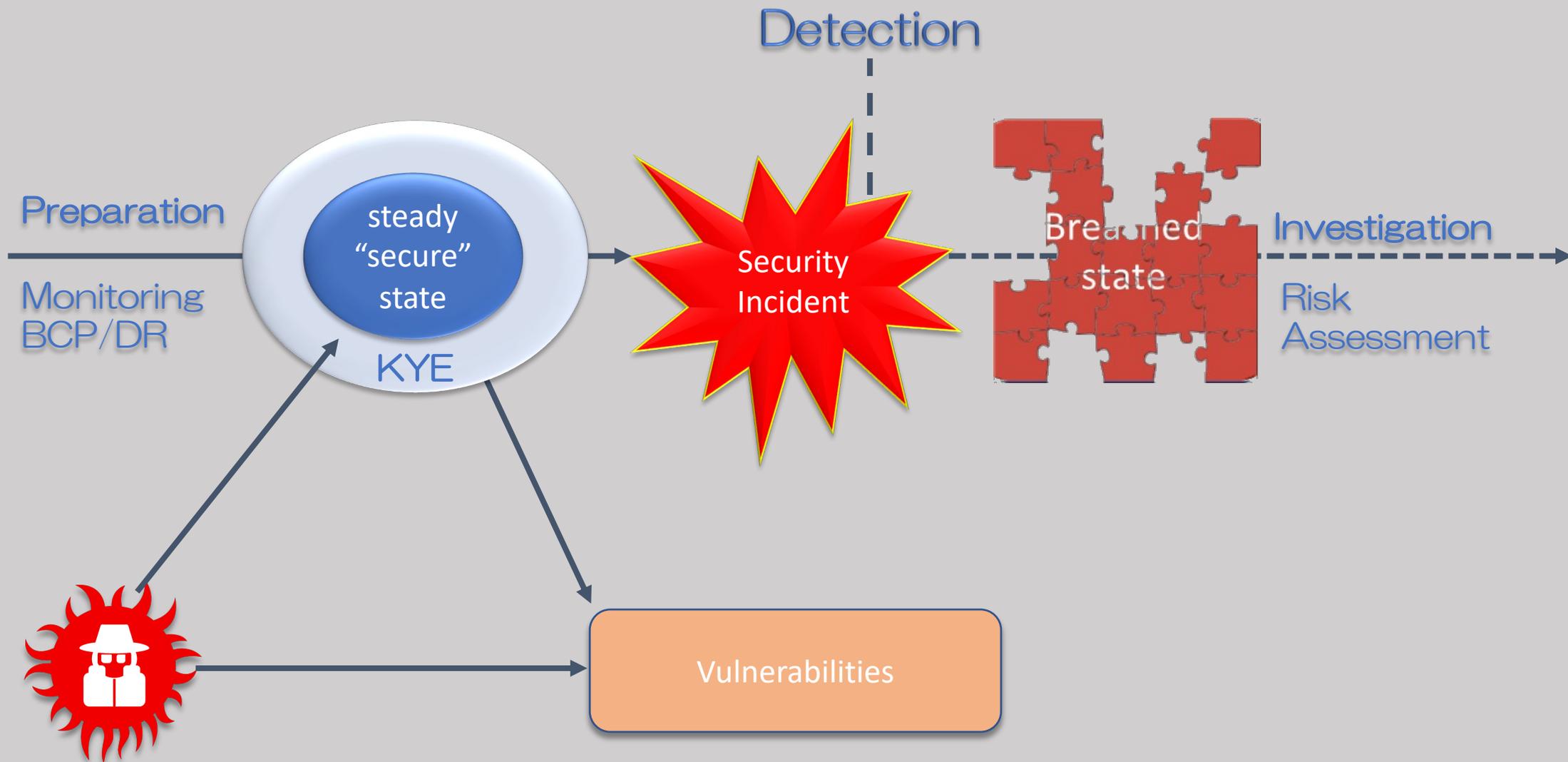


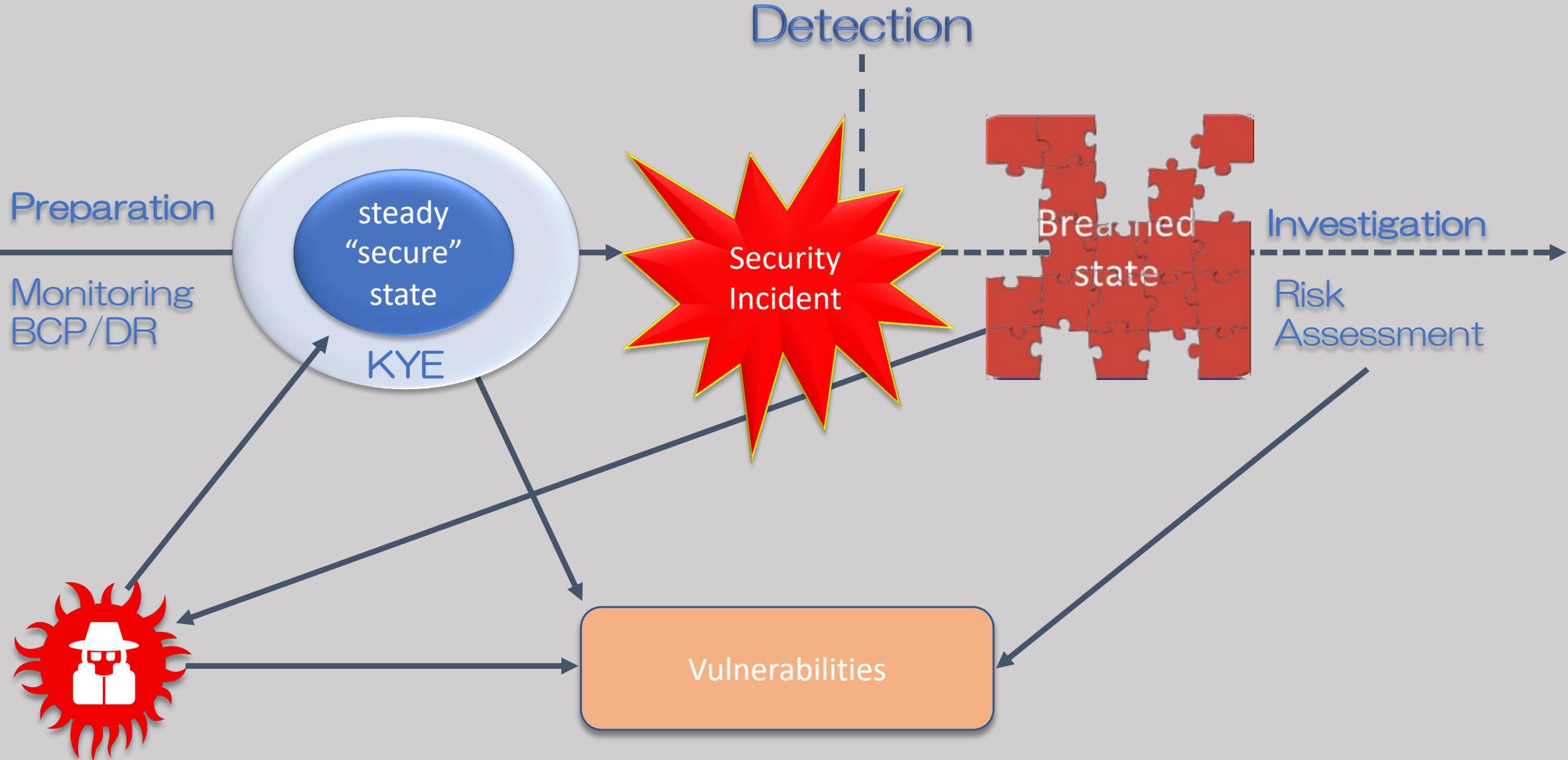


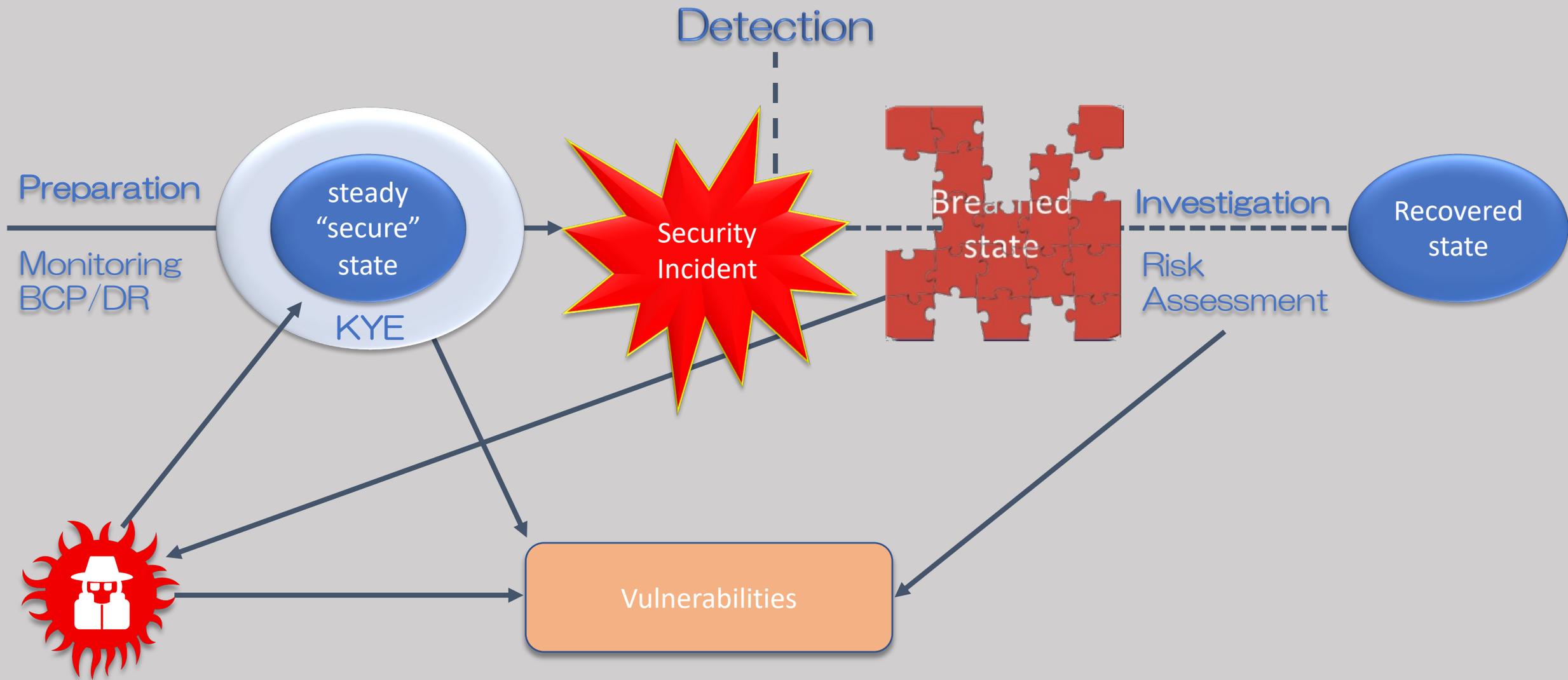




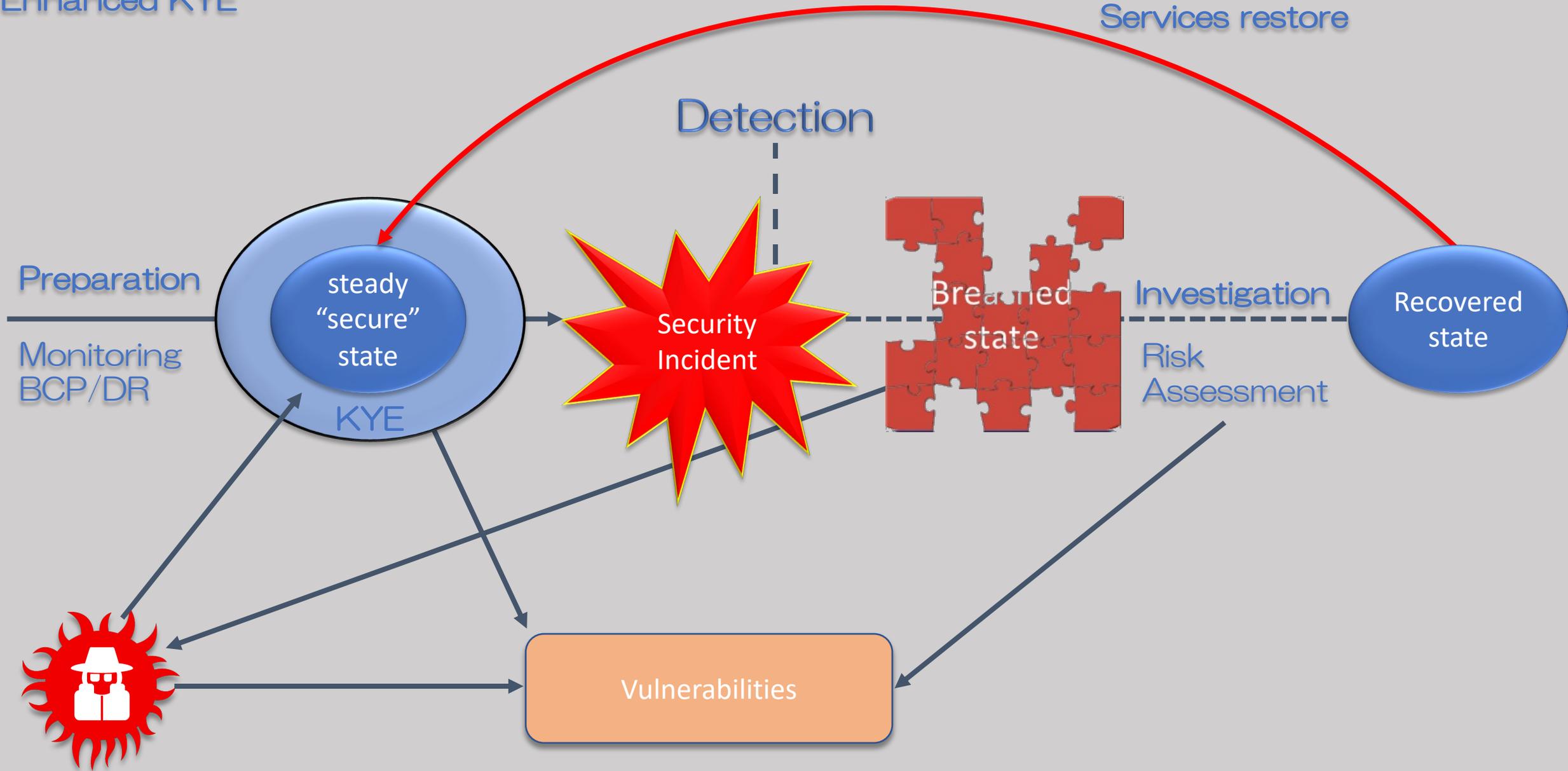




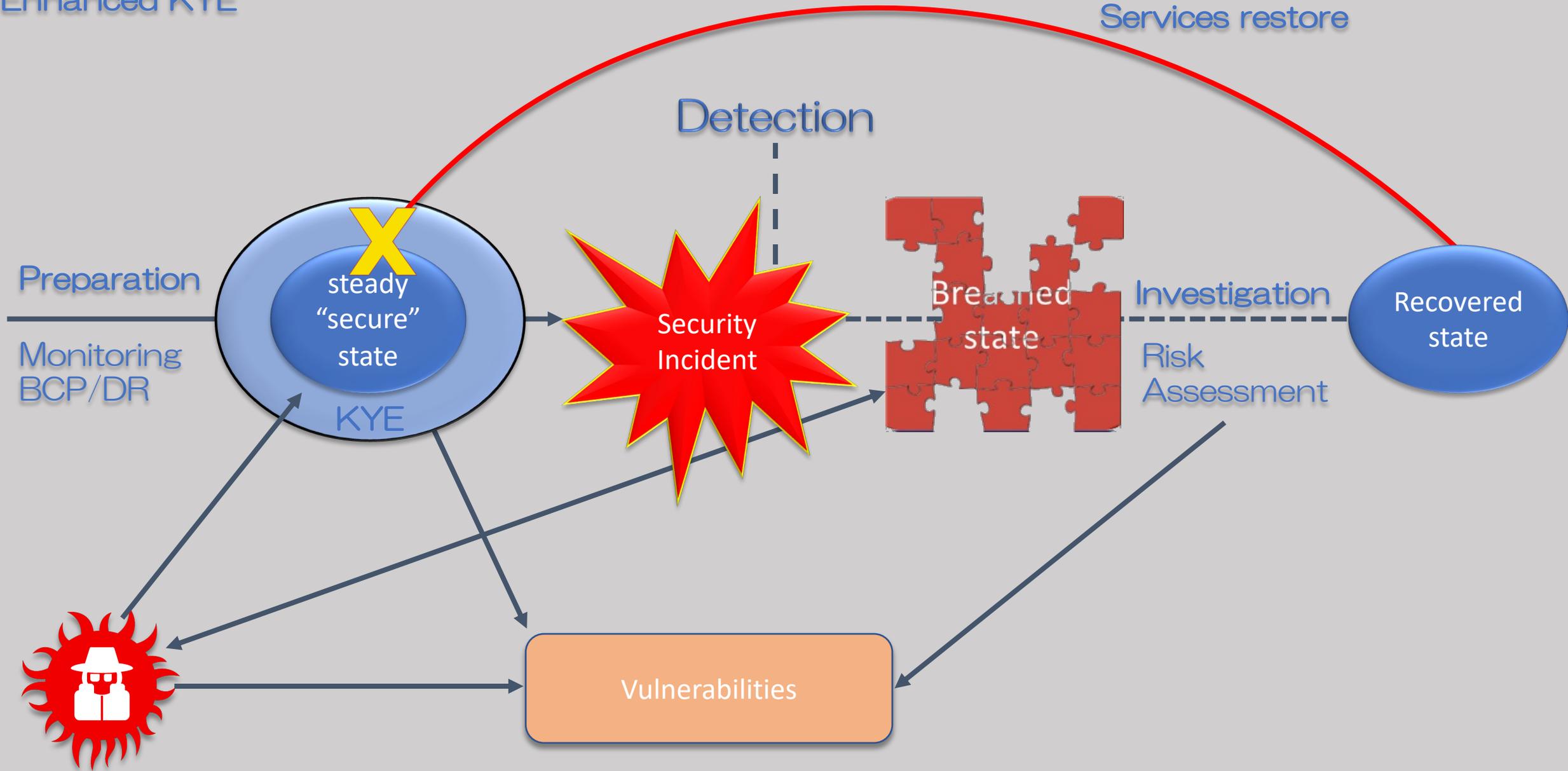




Enhanced KYE



Enhanced KYE



Remediation best practices

- Prepare culture, teams and process
- Keep things simple
- Choose partners early
- Monitor infrastructure with EDR/XDR
- Understand your environment (SIEM)
- Minimize privileged accounts exposure

Things to avoid

- Don't panic
- React without a plan
- Not blocking/isolating
- Alter evidence
- Unrestricted communication
- Unsecure recovery

Post incident reflection

- Leverage report internally
- Identify gaps in processes, people, tools, partners
- Information sharing
- Learn and apply

Thank you

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