TEMET
end-to-end IT security

Cyber Threat Defense

SIGS Afterwork, Basel

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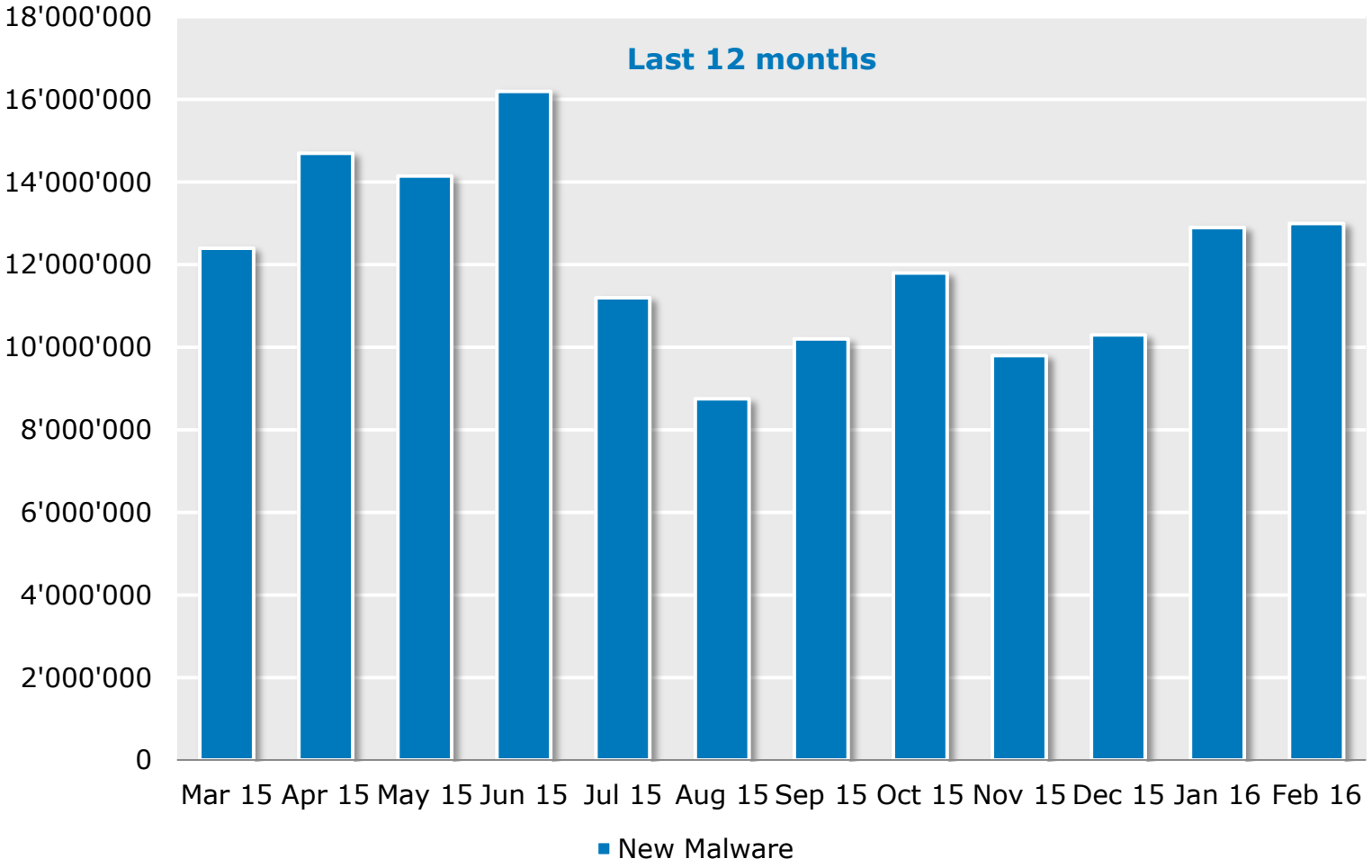
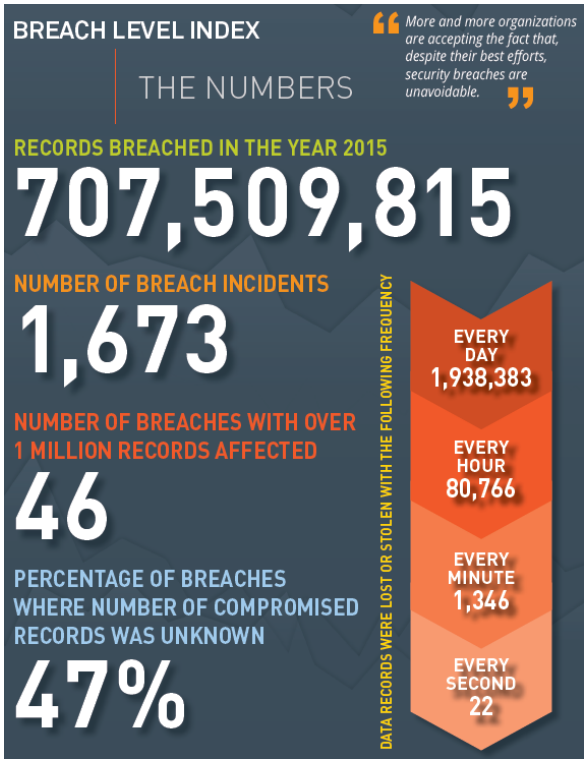
Cyber crime statistics

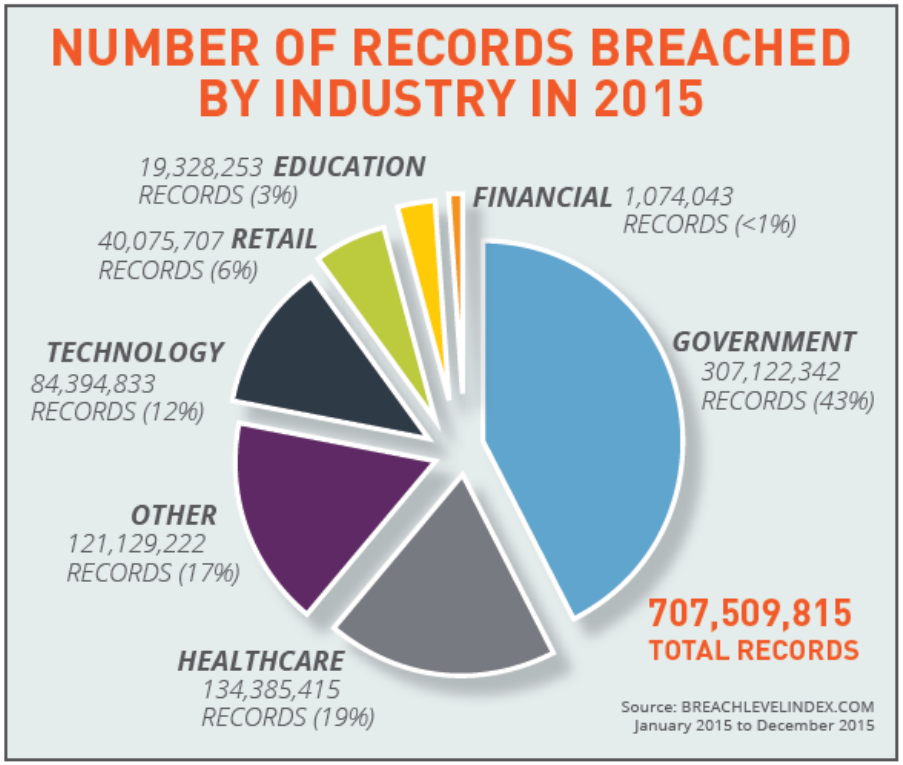
390’000 new malware samples every day!



Source: AV-Test GmbH, www.av-test.org

Cyber crime statistics
Breach Level Index 2015 (1/2)

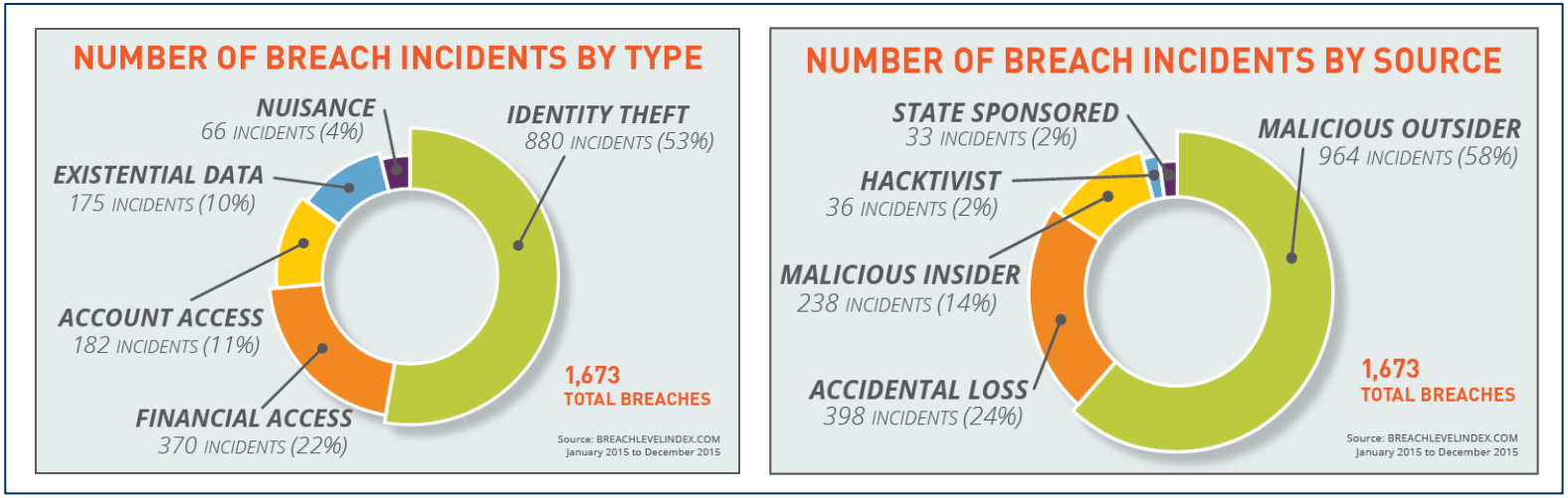




http://fr.sitestat.com/gemalto/gemalto/s?ent-Breach_Level_Index_Annual_Report_2015&ns_type=pdf

Source: Gemalto Breach Level Index Annual Report 2015

Cyber crime statistics
Breach Level Index 2015 (2/2)



Source: Gemalto Breach Level Index Annual Report 2015

Know your adversaries

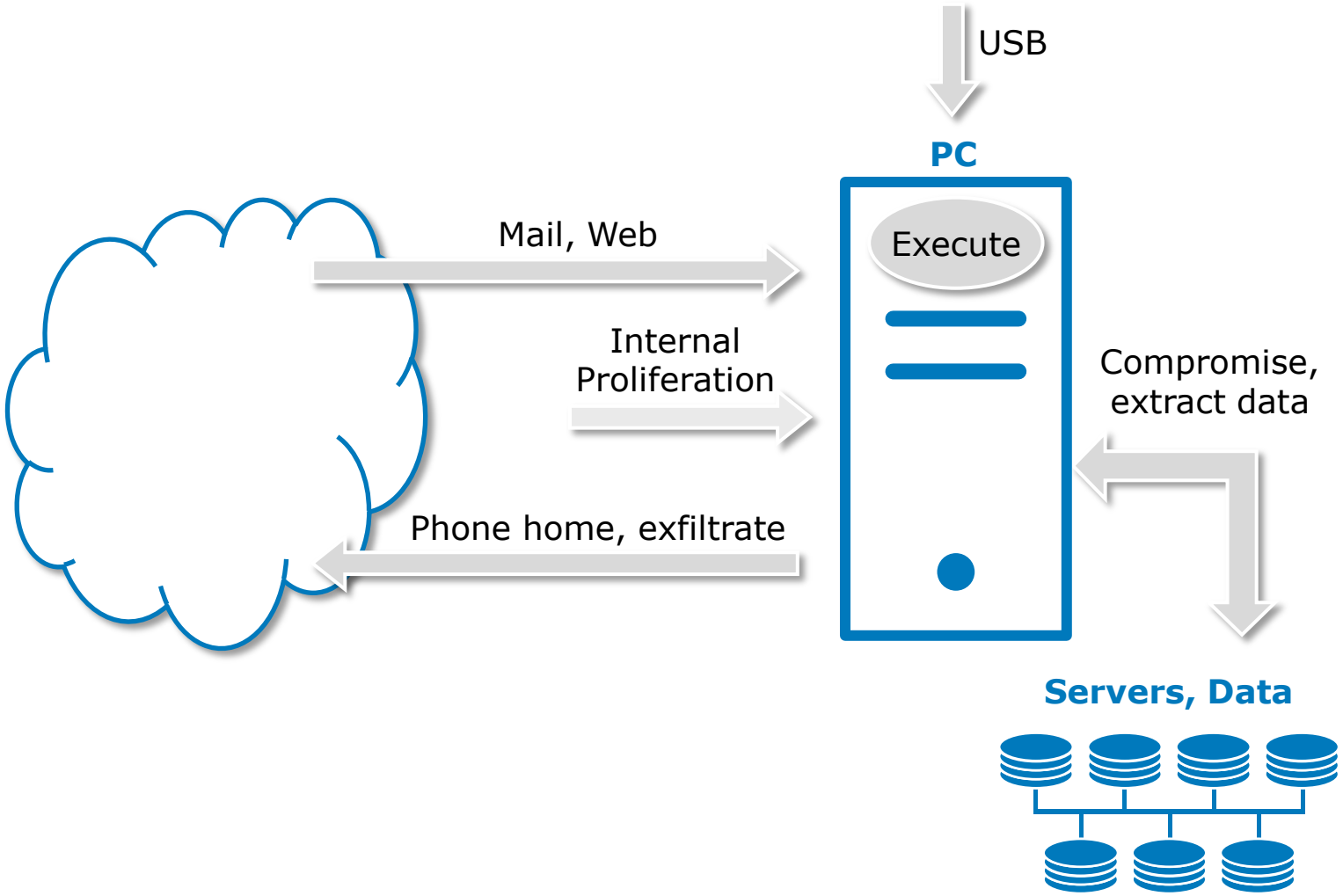
Cyber criminals: looking for a profit

- Extortion
- Selling data
- Money transfers
- Use processing power & bandwidth

Government agencies: Aiming for disruptive or military technology

Hacktivists: Avenge a perceived wrongdoing

Anatomy of an attack



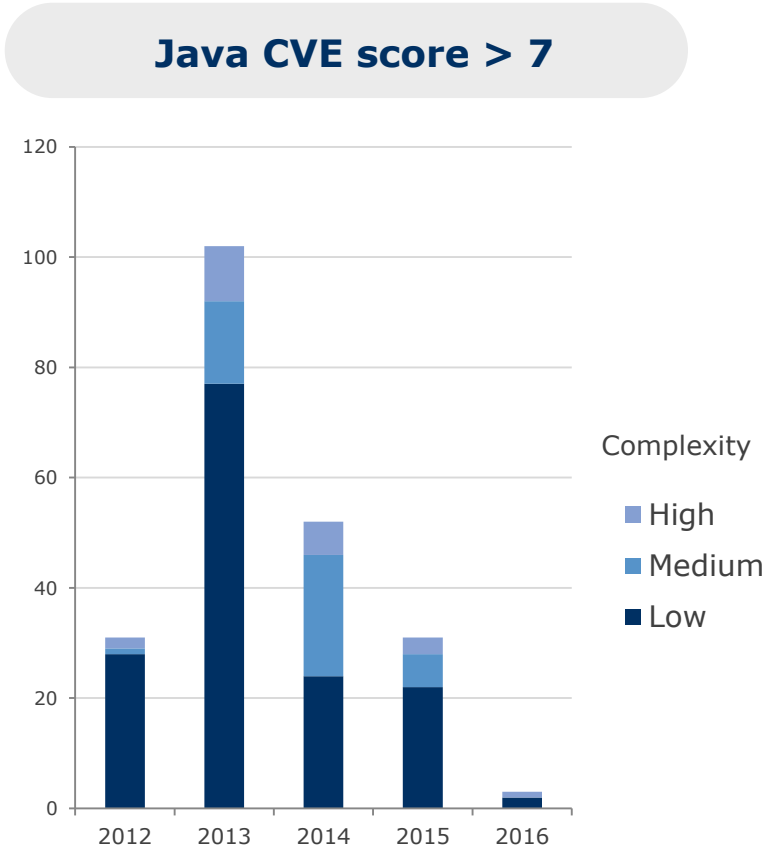
Close the front door

Lock down on file types

- Who needs to download executables?
- What are the common sources?
- What kind of mail attachments are really needed

Lock down on outdated technologies

- Java (in the browser) is obsolete and a constant source of pain. Why expose everyone?
- Examine and restrict other obsolete technologies, e.g. Silverlight, Flash in the near future



Close the front door

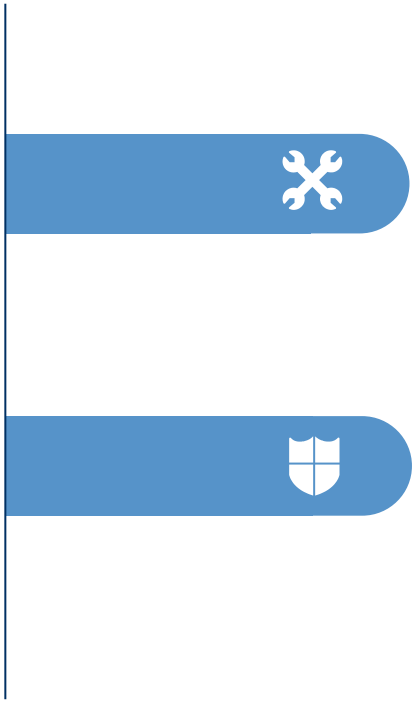
Examine your anti-virus strategy

- is your set-up up to speed?
- Does it incorporate new technologies your provider includes?
- Does the configuration follow best practice?

Additional technology?

- The baseline is the attack patterns you see, not the ones the product was built for
- Perform a PoC after closing the cheap vectors

Minimize impact

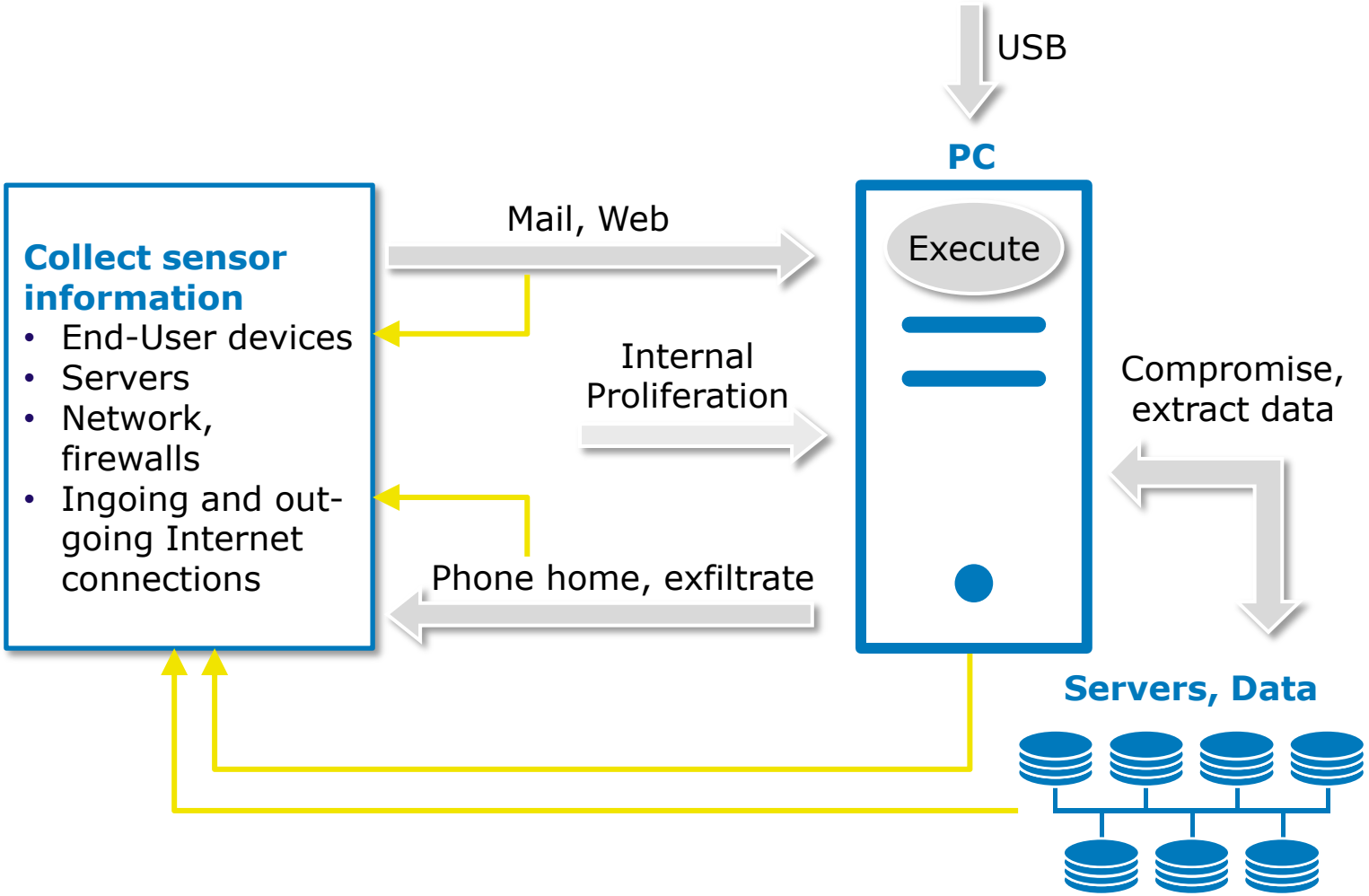


Contain execution

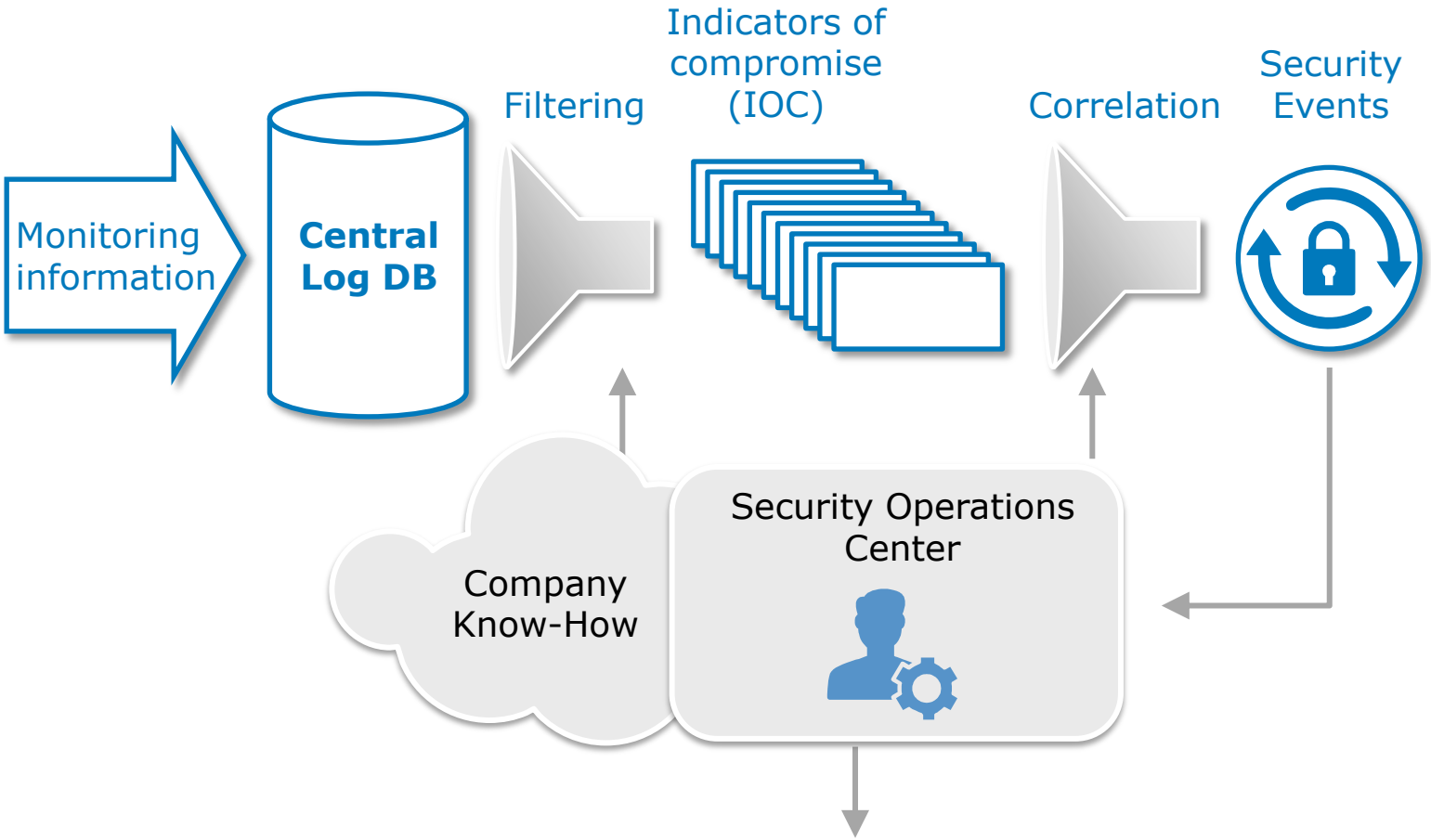
Protect your assets

- Check your backups
- Check your recovery procedures
- Implement Access Management for end-user data
  - Implement access control on your file servers
- Implement Privileged Access Management
  - Need to do for privileged access
  - Use different credentials form admin rights

Monitor anomalies



Monitor anomalies



Summary

- Check your maturity in all areas
  - Infiltration
  - Execution
  - Containment
  - Monitoring

- Invest where maturity is lowest

- Did you close the simple stuff?