Security Intelligence.
Think Integrated.

Cloud and Critical Infrastructures how Cloud services are factored in from a risk perspective

Reaching the Cloud era in the EU
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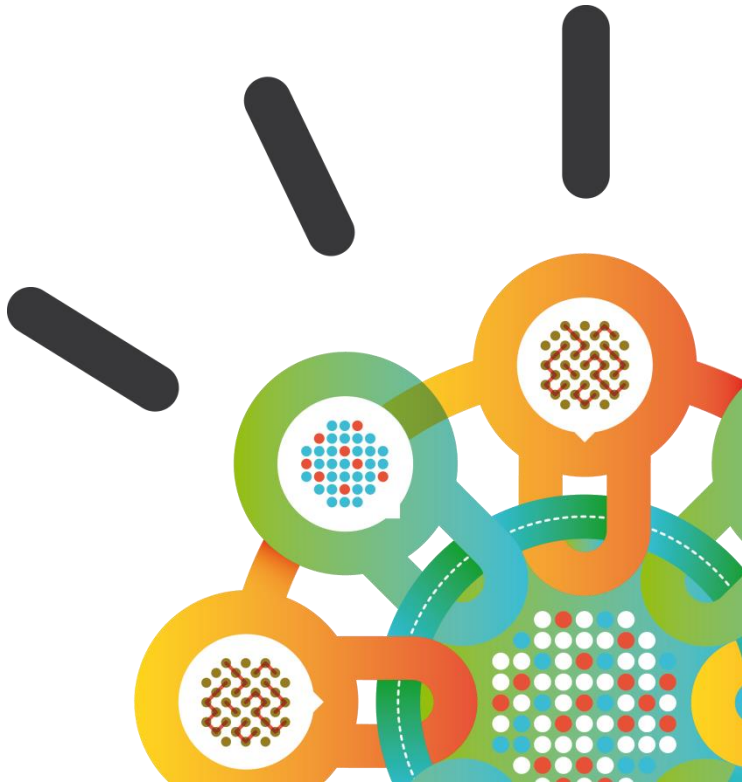
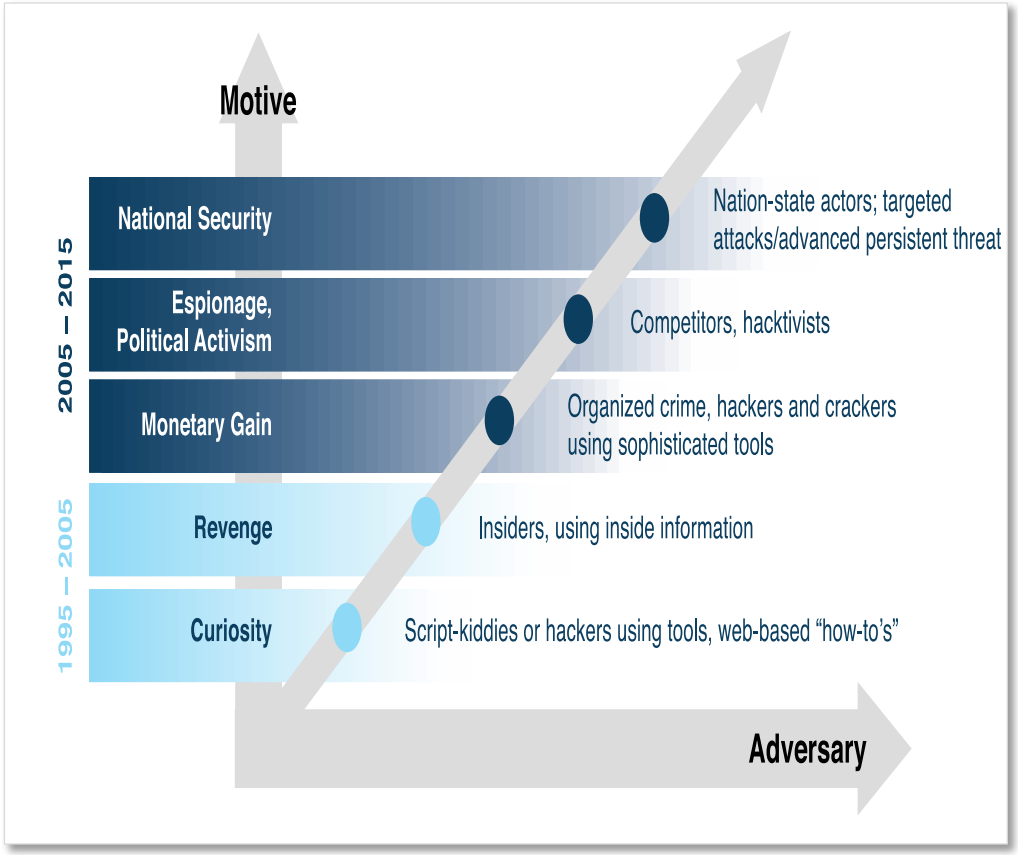


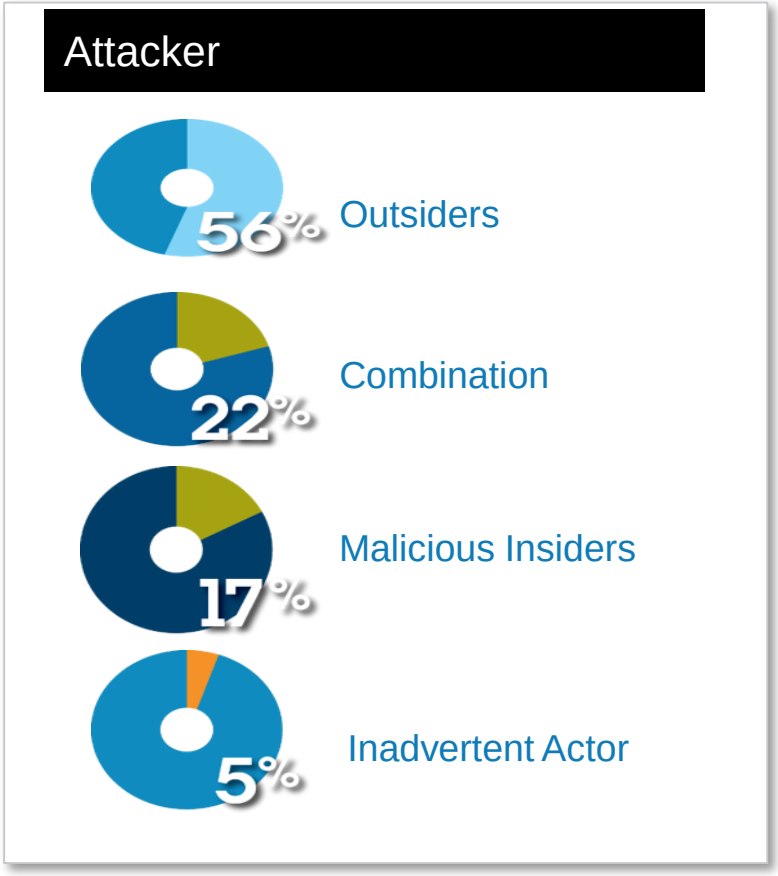
Today's conversation.

- *Current and emerging attacks and incidents*
- *Changing approaches and addressing security - risks relating to Cloud*
- *Collaboration - Incident Sharing / Information Sharing (privacy, liability)*
- *Emerging Regulation on the Horizon (critical, reporting, risk, standards)*

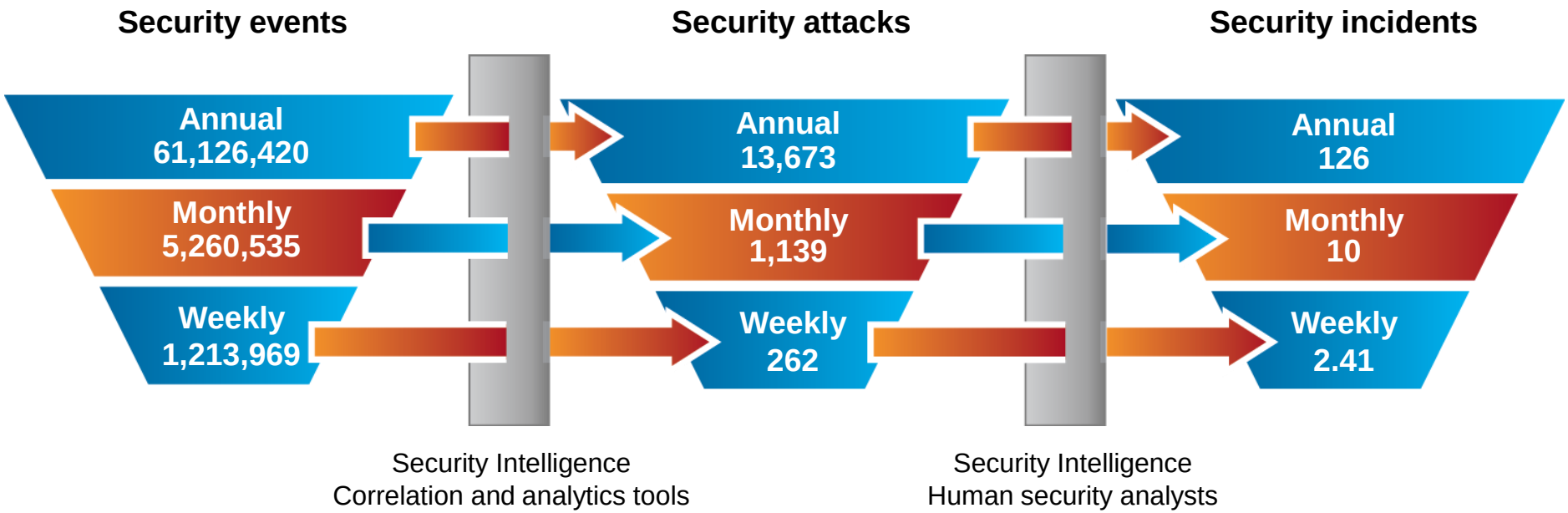
Organizations today face a growing range of cyber adversaries…

- The number and variety of new adversaries and threats continues to grow
- Old threats don't always disappear – while new threats continue to add to the total landscape





An evolving landscape, how many events, attacks and incidents, what the average finance organization is looking like.



Events: Increased efficiencies in tuning year on year to 61m

Observable occurrences in a system or network

Attacks: Increased efficiencies achieved decreased attack volume

More efficiency in security processing to help clients focus on identified malicious events

Incidents: up 8% year on year

Attacks deemed worthy of deeper investigation

Source: IBM Cyber Security Index 2015

An increasing amount of feeds to ingest, a challenge to reach prioritized data that optimizes threat prevention and response

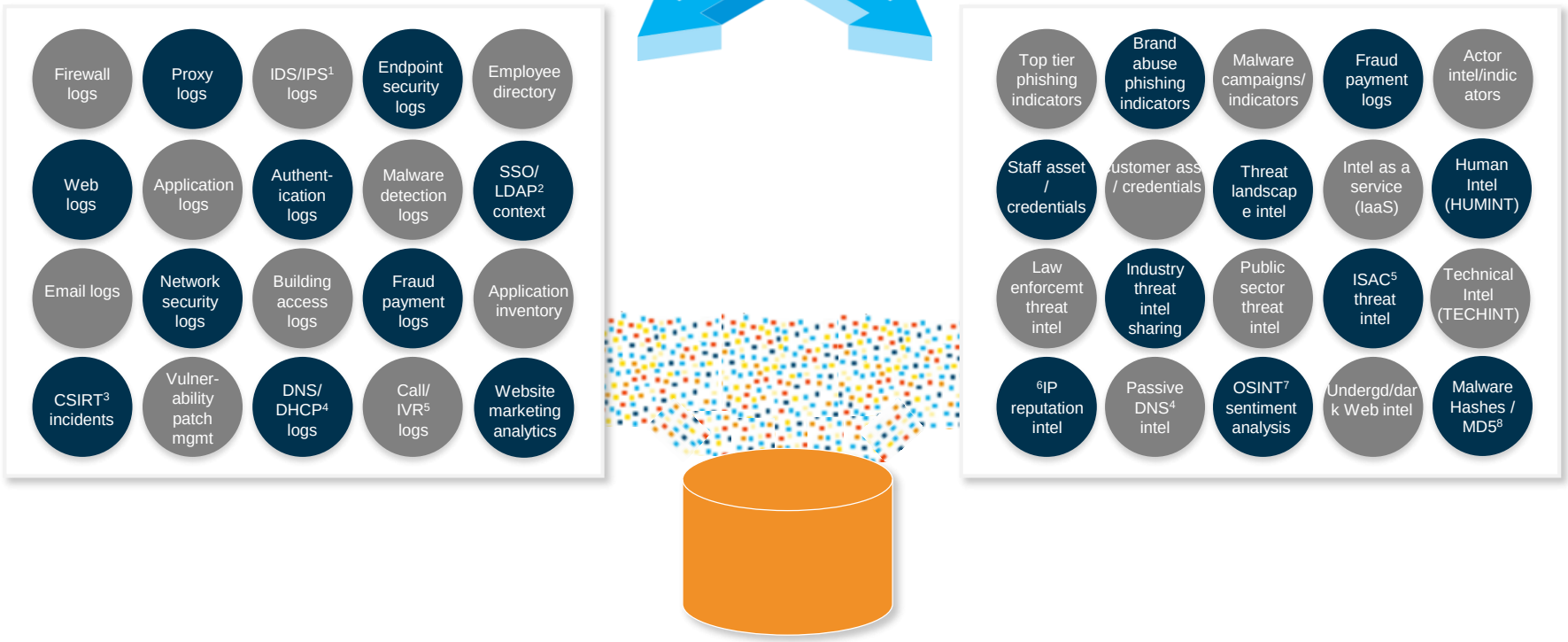
Internal

- *Threats and exposures that affect a specific organization*

Ever-increasing proliferation of data sources

External

- *Third party insight*
- *Industry- and geography-specific threats and trends*

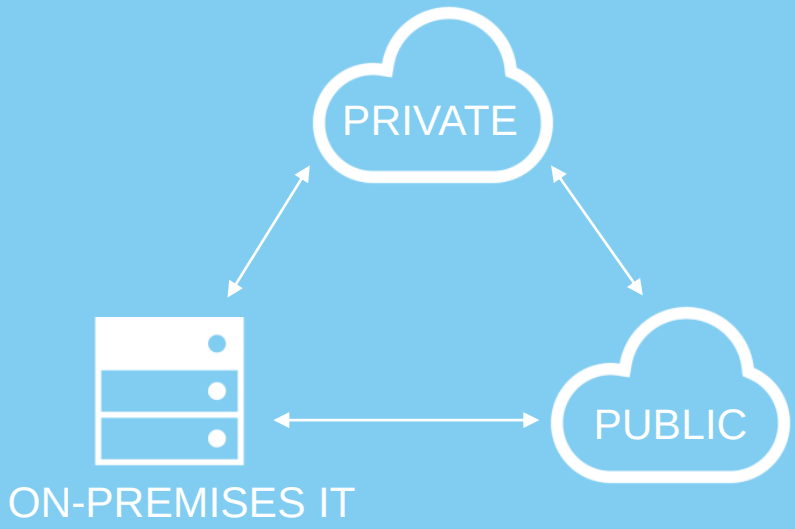


[1]Intrusion detection system / intrusion prevention system (IDS/IPS); Single sign-on (SSO) / lightweight directory access protocol (LDAP); [3]Computer security incident response team (CSIRT); [4]Domain name system (DNS) / dynamic host configuration protocol (DHCP); [5]Interactive voice response (IVR); [5]Information sharing and analysis center; (ISAC) [6]Intellectual property; (IP) [7]Open source intelligence (OSI); Malware detection or defense system (MDS)[8]

Cloud plays many different roles – emergence of HYBRID

- Not critical per se, cloud is becoming increasingly deployed everywhere in the IT landscape
- Not all cloud is PUBLIC
- Risk based approach
- Need to look at how cloud is deployed and secure appropriately

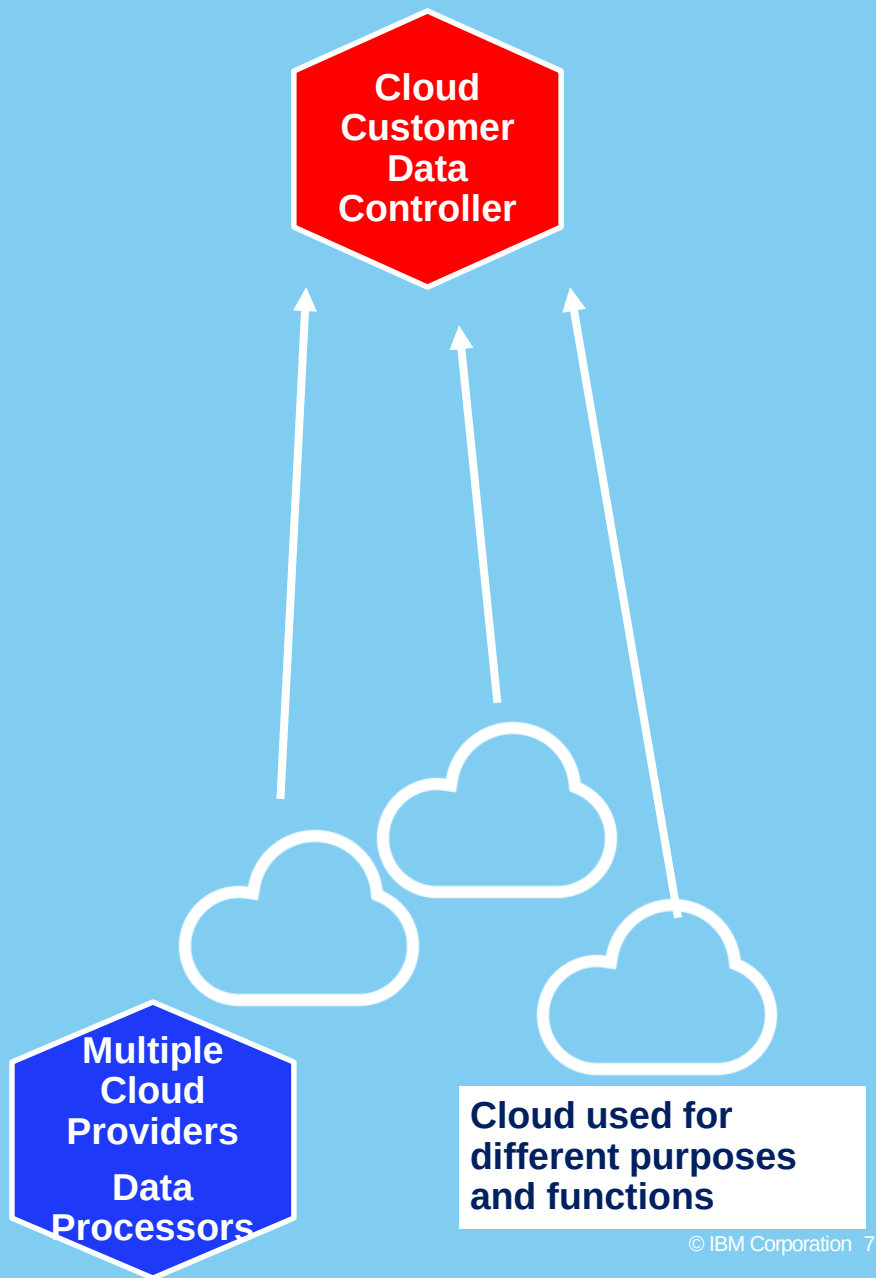
#1 concerns for cloud are security and privacy*



* Source: Gartner

Cloud is not inherently more risky than traditional IT

- Not everything is critical – depends on for what purpose cloud is used
- Problems facing cloud providers in an enterprise environment if they have to report an incident out to another authority
- Causes conflict between cloud user (data controller) and cloud provider (data processor)



* Source: Gartner

The changing approaches...current and emerging

- Prepared - taken appropriate steps.
  - Governance as well as technical
- Assurance- risk assessment and testing
  - Threat based intelligence integrated
- Detection and Response
  - Able to capture / report critical incident
  - Having the data / Recognizing the incident.
- Information sharing exchanges
  - Advancing protection – automated real time digesting
  - Addressing liability issues and Maintaining privacy

Thank you