## The changing y Threat ape



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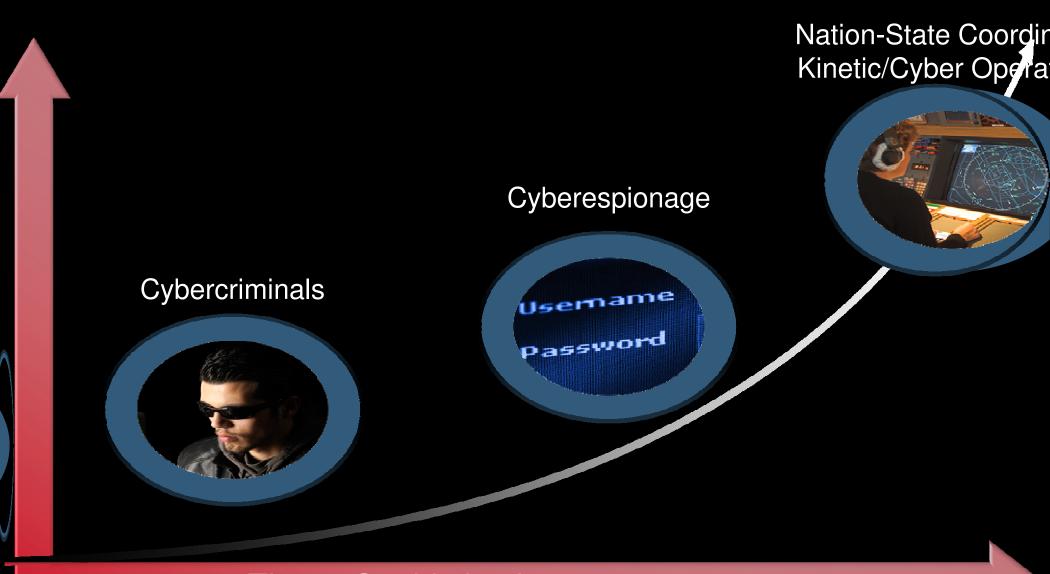


- ee India
- largest R&D site
- largest threat-
- e team
- uct development, but echnical support, PM,

ent applications ery McAfee product bution from India



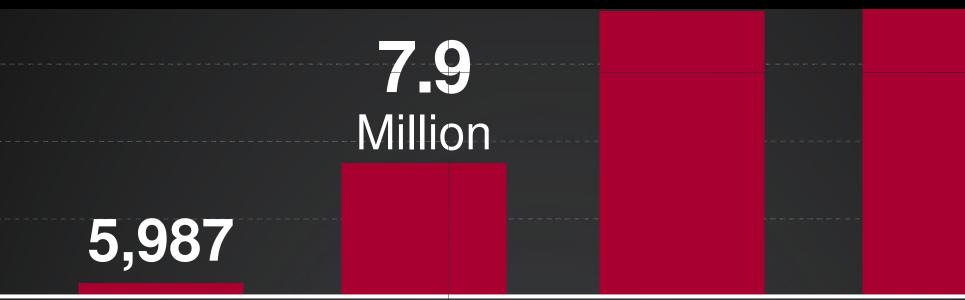




#### **Threat Sophistication**

### LWARE Tsunami rives CYBERCRIME







### fee reviews about



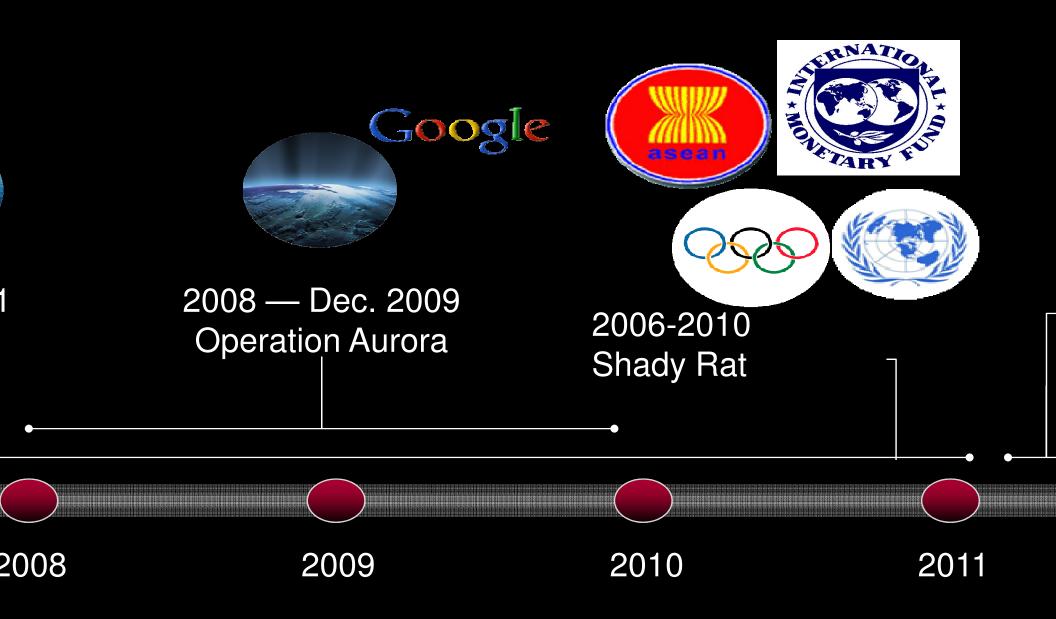
### **/IcAfee identifies over**





### fee identifies about







### the Business of Security

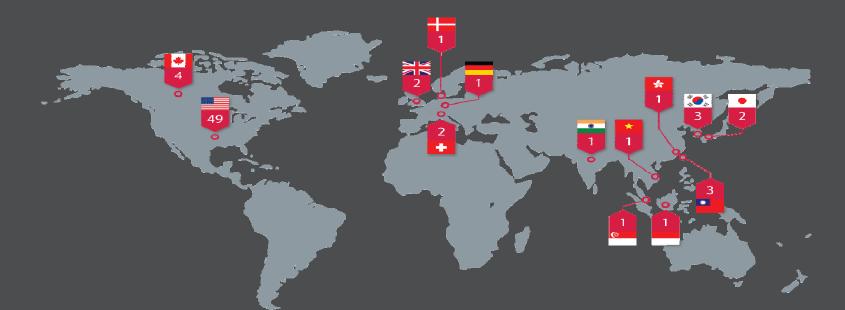
- Reactive Security (plain AV)
- **Proactive Security**
- evention
- white-listing
- ctive Protection
- the situation zation of IT
- n

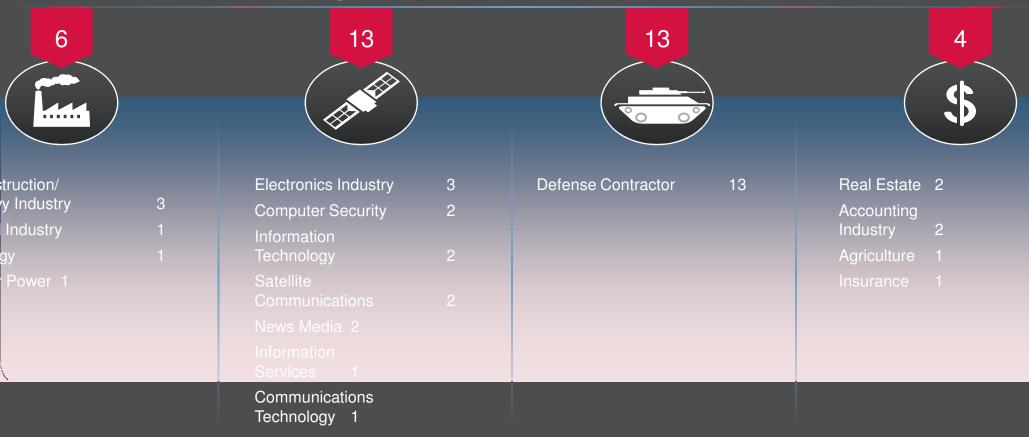


### Operation Shady RAT

### usions into **70+** anies, governments and ganizations during the





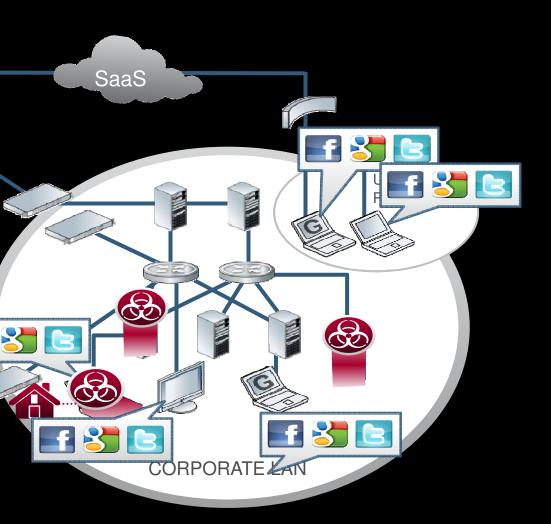


### lics of an APT

ck. Usually focused on a type of goal – not opportu Itiple methods – social engineering, sql injection, r adar" – Hard to detect using conventional methods

- in this attack was 28 months
- e of 72 companies identified was 8.75 months

- phy is affected
- business is affected public, private, government



#### Reconnaissance

- Map org chart (Identify attack targets)
- Social reconnaissance (acquire email, I
- Scan for vulnerabilities (web server/OS

### **Social Engineering Targete**

- Phishing email (malicious PDF, DOC, et al.)
- Gain physical access (impersonate clear
  Candy drops around building(Thumb drops)

### Establish Covert Backdoor

- Command execution on target
- Gain elevated user privileges, Inject ad
- Laterally move within network & establi

### Establish Command & Con

- •Install system admin tools (Keyloggers,
- Establish encrypted SSL tunnel
- •Utilize a remote administration tool (RA

### **Complete Objectives**

- Ex-filitrate Intellectual Property, Trade S
- Control critical systems

#### **Maintain Persistence**

- Revamp Malware to avoid detection
- Utilize other attack methods to maintair
- Continue monitoring networks, users, d

### Instruction of argeted Attack



### Exfiltrate Data



### unimale goal

- ata is coveted
- crets
- е
- ses
- ves
- plans
- details for new
- auctions
- stores
- acts
- nfigurations

# STOLENC REACH PETABY

#### er litte nauar

### file size

### nmon AP file names e, explore.exe, lprinp.dll, wiinzf21.dll

### detection avoidance

HTTP connections ection and Service persistence

### ication

It of backdoors connect outbound-only

#### S

S ha: yie e Global Zuuu are divided into two ca

been oromised know it

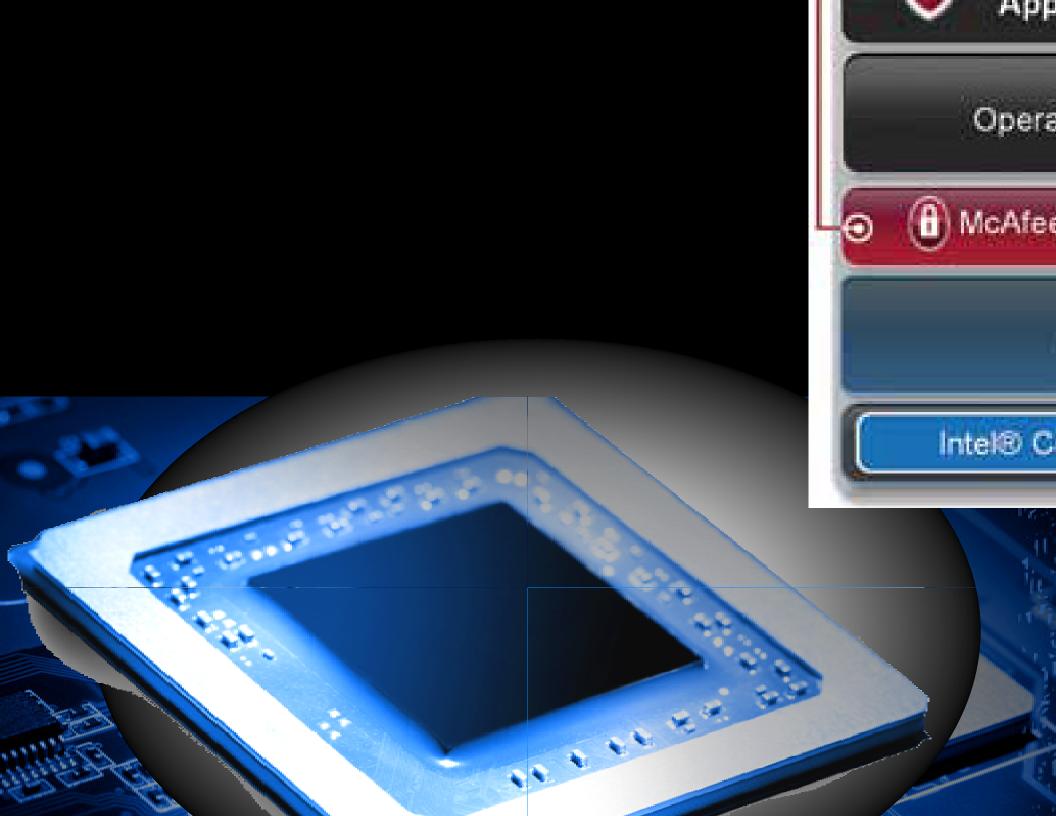
e who've Those wh been comprom and don't it yet

### ep 1: Basics: Email security, Firewall, IPS, Web putation

ep 2: Application whitelisting

### ep 3: Database activity monitoring

### ep 4: DLP for exfiltration prevention and monitoring



#### 

Security Experts telligence Security kage Prevention e Security gies

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### Dircy is Not Sumclent

- out Security Technologies
- ies/Procedures as well
- ining & Communication
- st "the innocent single click"
- was from a co-worker"
- vord practices
- physical and IT
- aining & more Training

### Greatest Battle ies Within"

Thank You!

