



Security: You Ain't Seen Nothing Yet: New Attacks and How to Prepare for Them

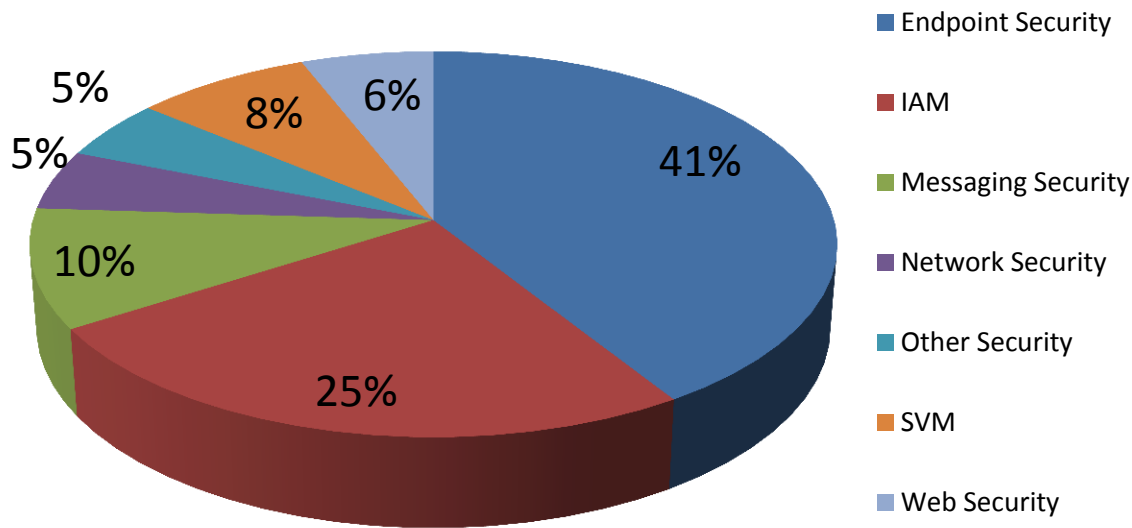
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**APeJ – Fastest Growth
Region World Wide
13% Y-on-Y Growth from
2011**

1H 2012



\$870 million

Region	5 Years CAGR through 2016
Asia Pacific	12.0%
CEMA	11.7%
Latin America	8.2%
USA	7.1%
Canada	5.4%
W. Europe	5.4%
Japan	3.9%
World Wide	7.0%

Washington Post joins list of hacked US media

February 3, 2013, 2:29 am | AFP

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Operation "Red October"

Victims of advanced cyber-espionage network



Melb data

Topic: Security

Yahoo hacked

Summary: Yahoo The company has do invalid.

By Emil Pro

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Update on July 13 - Yaho

Yesterday the hacker group D33ds Company claim responsibility for attacking a Yahoo service via a SQL injection and exposing 453,492 plain text log Last we heard, Yahoo was investigating the claims



Lists

Australia's Richest

1

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6

1 comments, 1 called-out

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LinkedIn said it is "in contact with the FBI" concerning this week's security breach that led to Internet postings of 6.5 million hacked passwords for members' accounts.

Anatomy of a Ransomware



- Freezes computer
- Virus not deleted even after ransom paid
- Keystroke loggers and other viruses inserted

- Masquerades as a law enforcement or software vendors
- Scammers then demand for ransom be paid in order to unfreeze screen
- Drive-by virus, infected by merely surfing sites – most commonly porn sites.
- Highly adaptive – location aware. Morphs information to suit locality of attack

Anatomy of an Advance Persistent Threat

```
if not _params.STD then
  assert(loadstring(config.get("LUA.LIBS.STD"))())()
  if not _params.table_ext then
    assert(loadstring(config.get("LUA.LIBS.table_ext"))())()
    if not __LIB_FLAME_PROPS_LOADED__ then
      LIB_FLAME_PROPS_LOADED__ = true
      flame_props = {}
      flame_props.FLAME_ID_CONFIG_KEY = "MANAGER.FLAME_ID"
      flame_props.FLAME_TIME_CONFIG_KEY = "TIMER.NUM_OF_SECS"
      flame_props.FLAME_LOG_PERCENTAGE = "LEAK.LOG_PERCENTAGE"
      flame_props.FLAME_VERSION_CONFIG_KEY = "MANAGER.FLAME_VERSION"
      flame_props.SUCCESSFUL_INTERNET_TIMES_CONFIG = "GATOR.INTERNET_CHECK"
      flame_props.INTERNET_CHECK_KEY = "CONNECTION_TIME"
      flame_props.BPS_CONFIG = "GATOR.LEAK.BANDWIDTH_CALCULATOR.BPS_QUEUE"
      flame_props.BPS_KEY = "BPS"
      flame_props.PROXY_SERVER_KEY = "GATOR.PROXY_DATA.PROXY_SERVER"
      flame_props.getFlameId = function()
        if config.hasKey(flame_props.FLAME_ID_CONFIG_KEY) then
          local l_1_0 = config.get
          local l_1_1 = flame_props.FLAME_ID_CONFIG_KEY
          return l_1_0(l_1_1)
        end
      end
      return nil
    end
  end
end
```

- Siphons information over protracted periods
- Advanced versions focuses on gaining control of critical infrastructure
- Run by nation states and cyber cartels

- Military and intelligence origins
- Persistent in nature. Highly targeted. Utilises combination of attacks – malware, social engineering
- Can be “primitive” by using known vulnerabilities. Can also be stealthy
- Highly elusive. Codes can be polymorphous to avoid detection

Panel Discussion !!

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