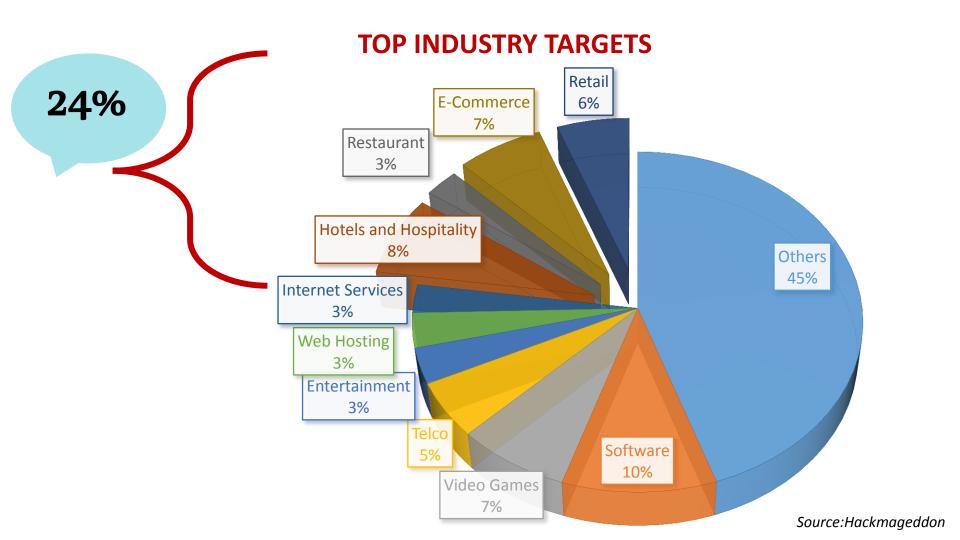


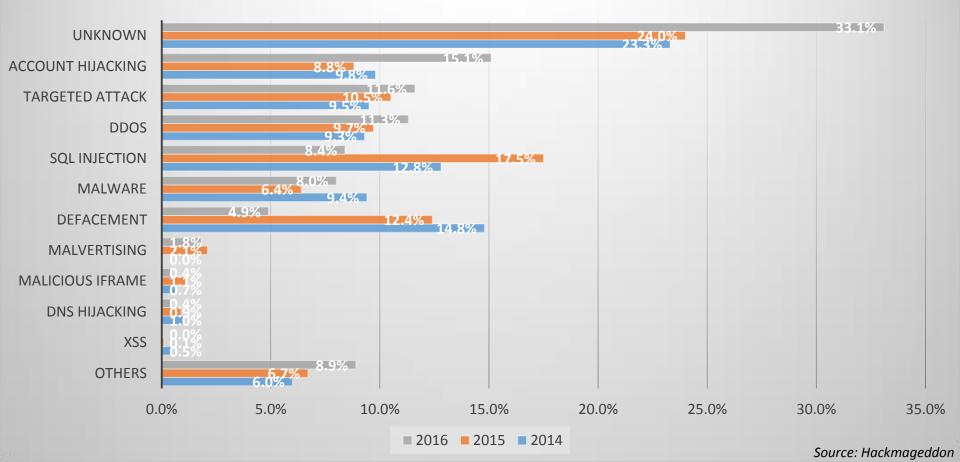


**Cybersecurity: Retail And Hospitality** 

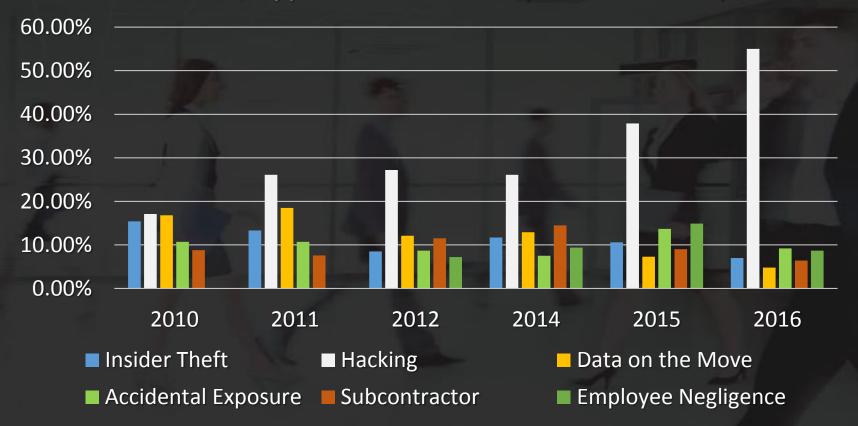




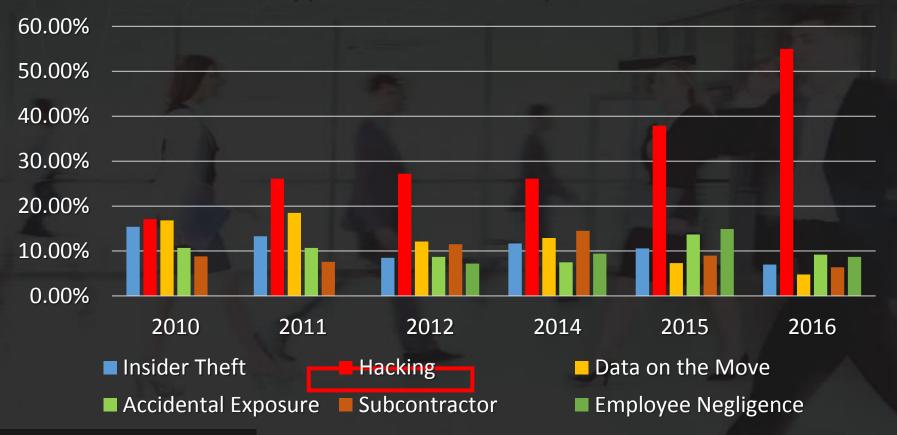
# Top 10 Attack Techniques 2014 vs 2015 vs 2016



### Causes/Type of Breaches (2010 – 2016)



### Causes/Type of Breaches (2010 – 2016)





So you're telling me that....



1x Compromised Server

10,000x Stolen Records

@ \$158 Cost Per record

\$1,580,000











**PCI DSS** Service Payment Standards Business comments Hostard Providers Policy parti devices Maintain Name configuration testing authentication

### **PCI DSS Compliance Levels**

PCI Level	Your Business Does:	You Need To Perform:
Level 4	< 20,000 eCommerce transactions per year	Annual Risk Assessment using SAQ
	< 1 Million other transactions per year	Quarterly PCI ASV Network Scans

Annual Risk Assessment using SAQ

Quarterly PCI ASV Network Scans

Annual Risk Assessment using SAQ

Quarterly PCI ASV Network Scans

Quarterly PCI ASV Network Scans

Annual Internal PCI QSA Audit

## >= 20,000 transactions per year Level 3

Level 2

Level 1



>= 1 Million transactions per year

< 6 Million transactions per year

6 Million transactions per year

Or more



- Network Security
- Data Protection
- Vulnerability Management
- Access Control
- Monitoring and Testing
- Security Policy











```
#indows\system32\cmd.exe - ping 192.168.1.1 -t
 bytes=32 time=1ms ITL=100
                      bytes=32 time=167ms TTL=100
                      bytes=32 time=2ms TTL=100
from 192.168.1.1: bytes=32 time=2ms TTL=100
from 192.168.1.1: bytes=32 time=1ms TTL=100
from 192.168.1.1: bytes=32 - MISCOMPARE at offset 1 - time=2ms
from 192.168.1.1: bytes=32 time=4ms TTL=100
st timed out.
from 192.168.1.1: bytes=32 time=5ms TTL=100
from 192.168.1.1: bytes=32 time=307ms TTL=100
from 192.168.1.1: bytes=32 time=2ms TTL=100
from 192.168.1.1: bytes=32 time=2ms TTL=100
from 192.168.1.1: hytes=32 time=1ms TTL=100
for 172-168-1-1: hytes=32 time=1ms TTL=1500 time=2ms TTL=1500 time=2ms TTL=1500 time=1ms TTL=1500 time=1ms TTL=1500 time=1ms TTL=1500 time=1ms TTL=1500 time=1ms TTL=1500 time=1ms TTL=1500
from 192.168.1.1: Dytes=32 time=1ms 11L 100
from 192.168.1.1: Dytes J.

st timed out.

from 192.168.1.1: bytes=32 time=5ms TTL=100

from 192.168.1.1: bytes=32 time=3ms TTL=100

from 192.168.1.1: bytes=32 time=3ms TTL=100

from 192.168.1.1: bytes=32 time=3ms TTL=100
                                                                                   Monitoring
                                                                                   and Testing
```



### **Fortify Your Defenses**

- Network Security
- Cloud Security
- Internet of Things
- Policies and Procedures
- **BYOD Considerations**
- Patches and Updates
- Network Segmentation



#### **Educate Your Customers**

- Malware
- Phishing
- Password Attacks
- Denial of Service Attacks
- MITM Attacks
- Drive-by Downloads
- Malvertising



