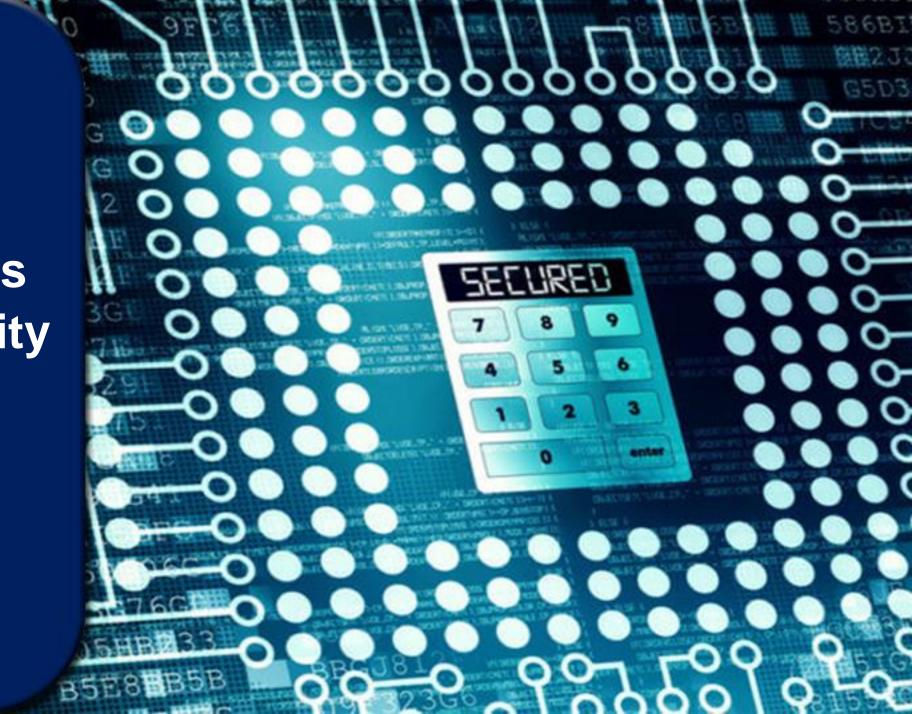
Insider threats to Cybersecurity

6th CSIR Conference

Darshan Lakha

Vodacom Group

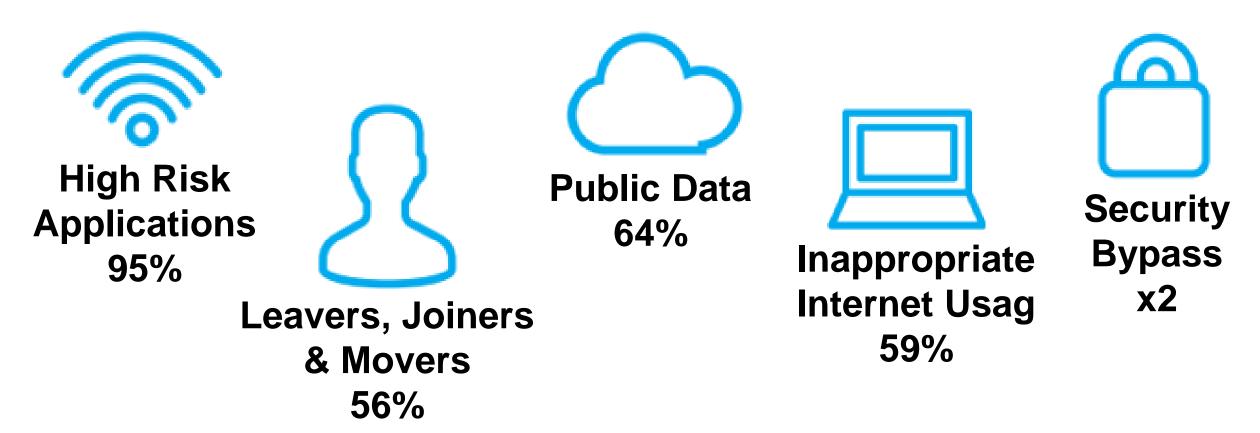
CTSO



INSIDER THREATS



INSIDER THREATS | Impact



Are insider threats the main security threat in 2017?

INSIDER THREATS | Who is involved?

Privileged Users





Third Parties

Terminated Employees



INSIDER THREATS | The danger

According to a 2017 Insider Threat Report, 53 percent of companies estimate remediation costs of \$100,000 and more, with 12 percent estimating a cost of more than \$1 million.

Insider threats can go undetected for years



Hard to
distinguish
harmful actions
from regular



Easy for employees to cover their actions



Hard to prove guilt



INSIDER THREATS | The cause

What makes malicious insiders conduct such crimes?

Acting on opportunity



Taking revenge for perceived



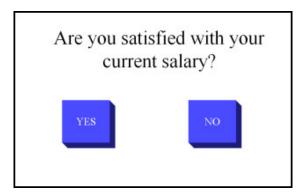
Making a statement

ONLY BORING PEOPLE GET BORED Doing competitor s bidding

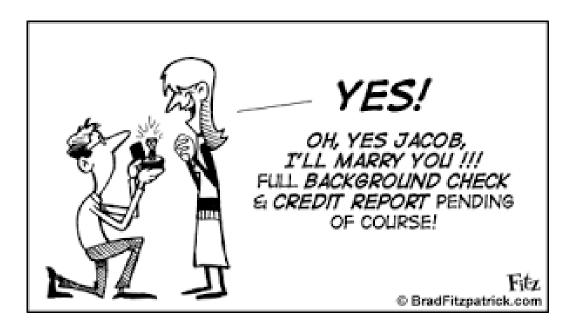
FORWARD.



Seeing themselves as a future competition



Background Checks



General Investigations

Comprehensive Background Investigat

Background Screening Services

Truth Verification

Risk Surveys and Crime Analysis



Watch employee behaviour

Darshan Lakha 8 5 January 2017

Conduct a privilege audit.

Start all accounts with least privilege.

Enforce the separation of privileges.



Use just in time privileges.

Make individual actions traceable.

Use the Principle Of Least Privilege POLP

Control user



Unique complex passwords

Prohibit credential sharing

Use two-factor authentication

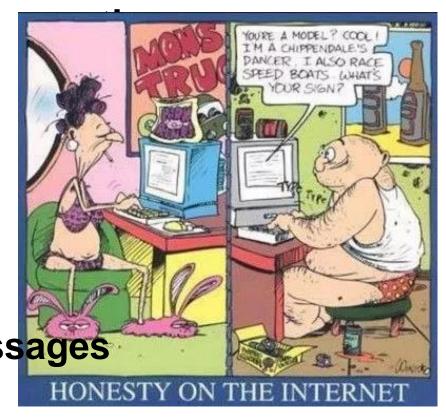
Use auditing to monitor access to files

Examine cached Web files

Monitor Web access at the firewall

Monitor incoming and outgoing e-mail messages

Monitor user



Control what software employees can install or run

Obtain C-level support

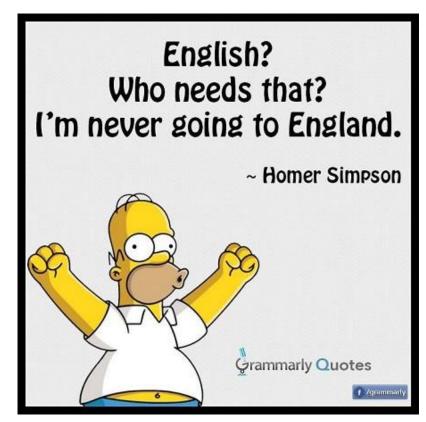
Partner with key departments

Be relevant

Measure success

Incentivise awareness

Use a variety of awareness tools



Educate employees

INSIDER THREATS | Conclusion

Follow a good "intake" and "exit" program

Apply and verify "privilege user access management"

Apply "strong security baselines" both inside and externally

Create a monitoring process

Verify by regular audit proces

Educate and inform

Know your employees



