

Duration: 20 min

Virtual Event

Cyber Workforce Summit

Oct. 28th, 2021

Setting Sail on Security Research

Dave Alen | zumaroc.com



Discussion overview

In this activity we are going to explore why some believe “...ethical hacking [or security researching] is the coolest job in tech right now.” ^[1]

Learning objectives

- Understand the inspiration behind security research
- Actions of the security researcher
- The impact of security research [MTN Group as case study]
- How do you get started?

Keywords

The Digital World

- *Nothing is immune.*
- *security research is the closest we have to immunity, so it makes sense that individuals get rewarded.*
- *The “democratization” of bug bounty programs, will reduce ransomware.*

The Real World

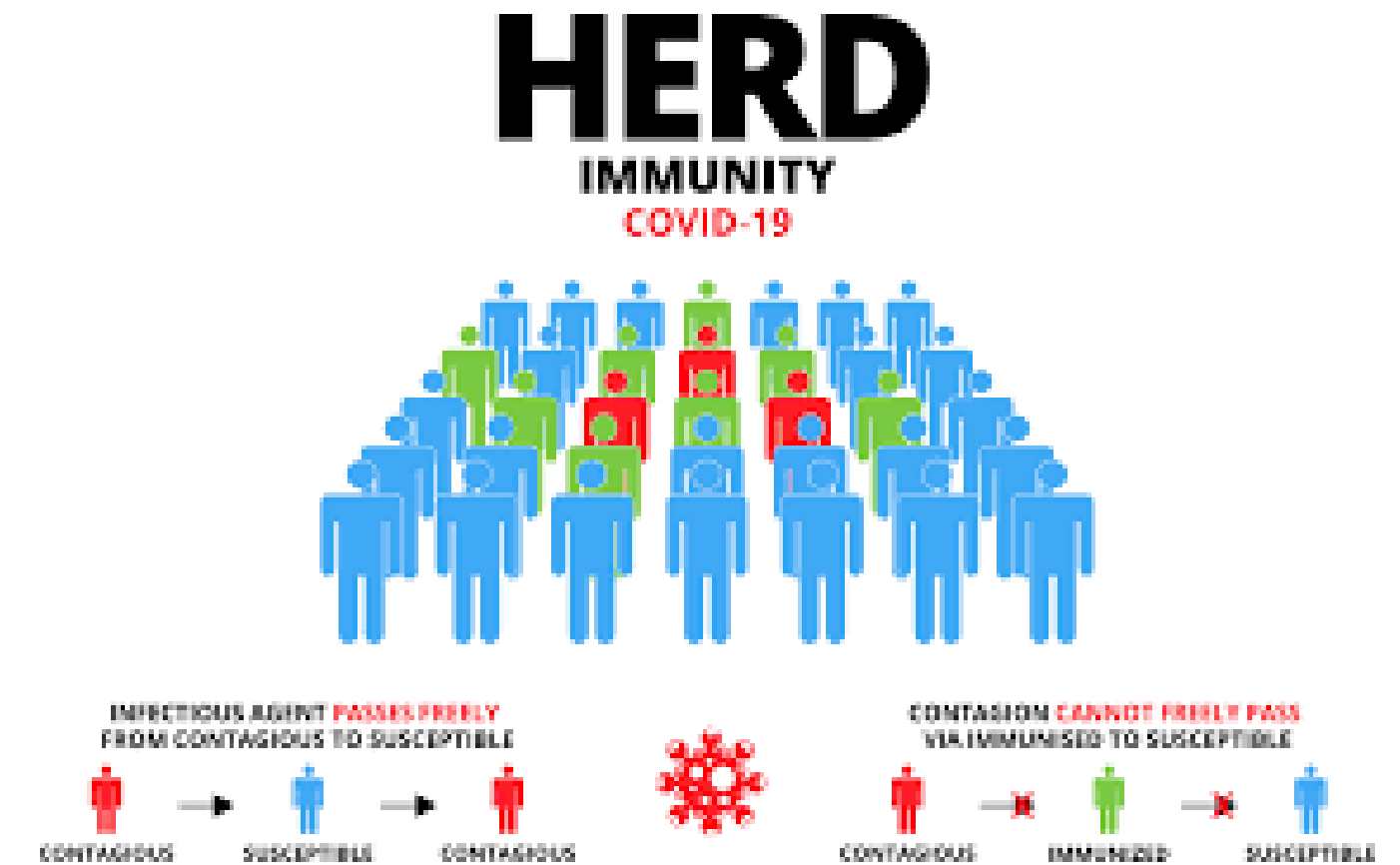
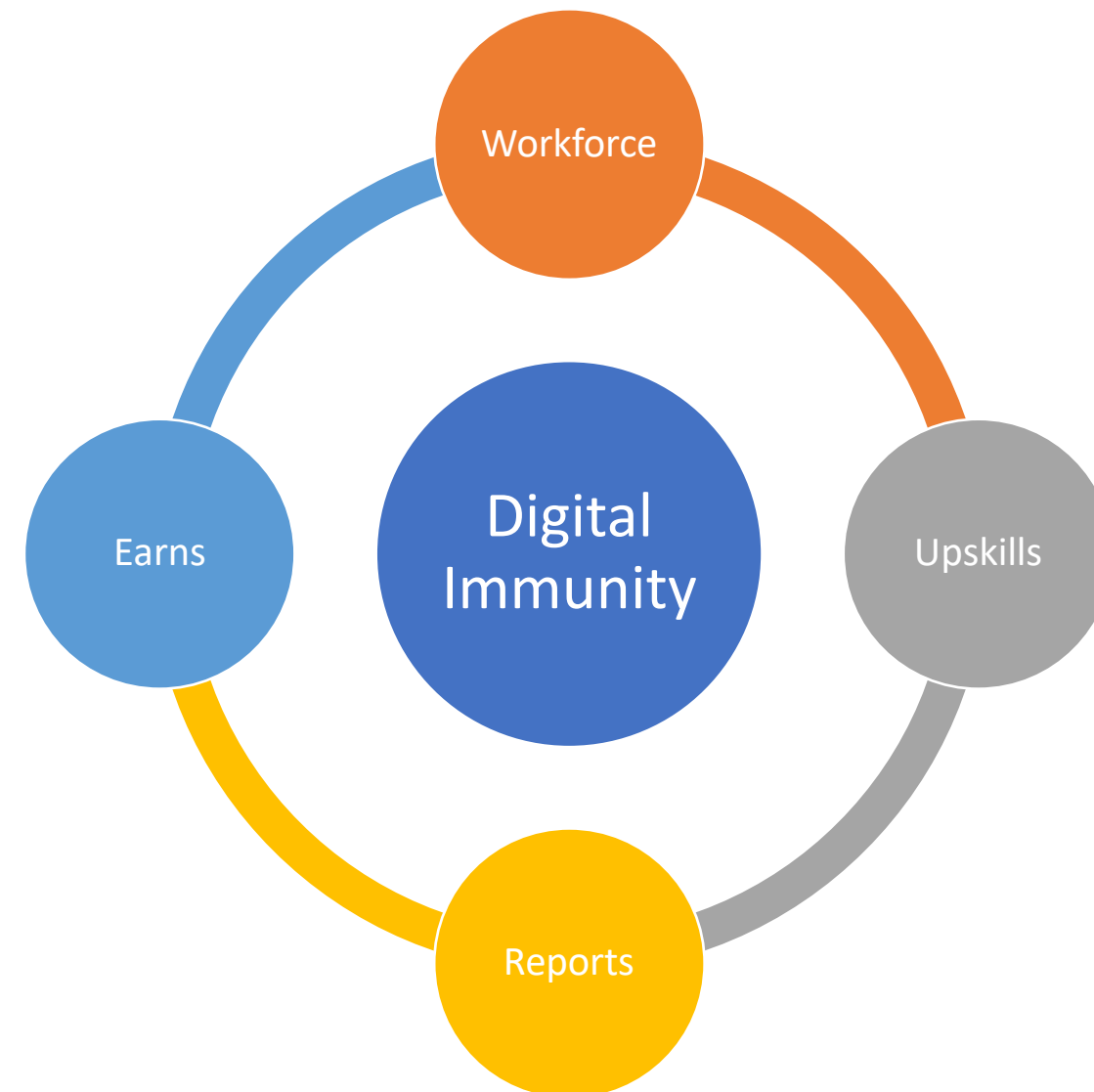


Image Source: <https://www.narayanahealth.org/>

They report bugs to earn rewards and make the digital world a better place



3a. The impact of security research – MTN





MTN Group
<https://www.mtn.com/>


Reports resolved **1473** | Assets in scope **28**

[Submit report](#)

Vulnerability Disclosure Program
Launched on Dec 2019
Private disclosures enabled


7 **#761000** Account Take over of millions of MTN users account due to lack of Rate limiting when sending OTP code Share: [f](#) [t](#) [in](#) [y](#)


TIMELINE


 its_afolic submitted a report to MTN Group. Dec 18th (2 years ago)
I attached a PDF document to this report which explained the vulnerability in full details and I also attached a link to the POC video in the document.

Impact
Account take over of about any MTN user account.


1 attachment:
F662912: VULNERABILITYREPORT-NORATELIMITINGSENDINGOTPCODE_1.pdf

 cybersecurity_7ibu8 changed the status to **Triaged**. Dec 18th (2 years ago)
Thank you for the detailed report we have sent this on to the team to investigate urgently.

 cybersecurity_7ibu8 posted a comment. Dec 19th (2 years ago)
HI,
Enginners have attend to this can you possibly validate that this is fixed now.

 its_afolic posted a comment. Dec 19th (2 years ago)
Confirmed the fix and it seems fixed now, I got a message on my mobile phone after running the brute-force attack notifying me of the brute-force attack and also can't make use of the correct OTP code too. Looks like a perfect fix.
I would love to take permission to make a write-up about this if it is cool with you?

Reported December 18, 2019 10:39am -0500

Participants
 its_afolic

State **Resolved (1)**

Reported to **MTN Group**

Disclosed April 13, 2020 3:20am -0400

Severity **High (7 - 8.9)**

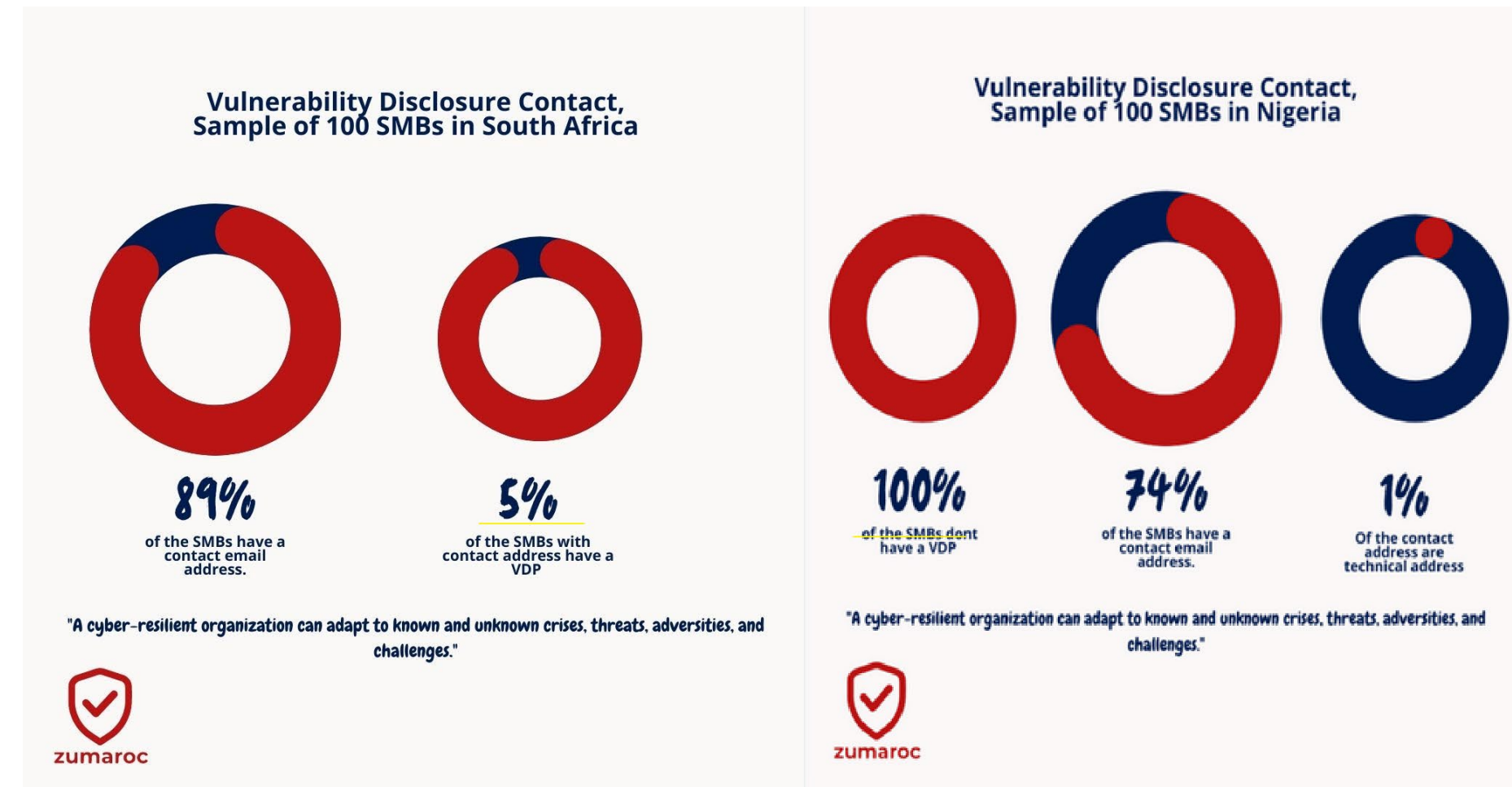
Weakness **None**

CVE ID **None**

Account de... **None**

Cyber Resilience Index | Africa 2021 Report

- Researchers have created an **Index that measures the cyber resilience** of companies in Africa
- A firm follows cyber resilience methodologies by having a **public or private** Vulnerability Disclosure Program (VDP).



4. How do you Get Started ?



Security Researcher?
Join an **online community**.

Company?
Engage the **online community**.

The screenshot shows the Zumaroc website navigation bar with links for Accelerator, ZrocCyberSec™, Features, How it works?, Researcher, and Customer Portal. The main content area is titled "For Security Researchers:" and includes the text "Enjoy the challenge of bug hunting and:" followed by a list of benefits: "Make money", "Step up your ethical hacking skills", and "Join a worldwide community". A "Join Now" button is located at the bottom.

The screenshot shows the Zumaroc website navigation bar with links for Accelerator, ZrocCyberSec™, Features, How it works?, Researcher, and Customer Portal. The main content area is titled "For Customers:" and includes the text "Be on the leading edge of security and start a:" followed by a list of services: "Crowdsourced Pen Test program", "Nex Gen Phishing simulation", and "Vulnerability Disclosure program". A "Get Started" button is located at the bottom.

Common Questions:

- *What is a **Bug**?*
- *What are some of the **challenges** of becoming an ethical hacker?*
- *How **safe** is using crowdsourced security at my organization?*

Further activities

- Email zroc@zumaroc.com for a copy of Cyber Resilience Index | Africa