

beyond cybersecurity

Volume 4 | Issue 03 | March 2020

CISO MAG EXCLUSIVE



INTERVIEW

BRIAN M. HARELL ASSISTANT DIRECTOR FOR INFRASTRUCTURE SECURITY CISA,

18

DEPARTMENT OF HOMELAND SECURITY, USA

SIMULATING TARGETED CYBERATTACKS

EC-Council

Celebrating #WomenInCybersecurity all of March



Transition into a career that will empower you

15%* off on CEH exam + FREE CEH practical

CEH exam + FREE CEH practical (worth \$500)

1+1 Offer

Buy a Certification, get a bundled Certification FREE*

Visit: iclass.eccouncil.org



Volume 4 | Issue 3 February 2020

Editorial International Editor Amber Pedroncelli amber.pedroncelli@eccouncil.org	Management Executive Director Apoorba Kumar* apoorba@eccouncil.org
Principal Editor Brian Pereira brian.p@eccouncil.org	Senior Director, Compliance & Governance Cherylann Vanderhide cherylann@eccouncil.org
Senior Feature Writer Augustin Kurian augustin.k@eccouncil.org Feature Writer	Deputy Business Head Jyoti Punjabi jyoti.punjabi@eccouncil.org
Rudra Srinivas rudra.s@eccouncil.org	Head of Marketing Deepali Mistry deepali.m@eccouncil.org
Technical Writer Mihir Bagwe mihir.b@eccouncil.org	Marketing and Business Development Officer Riddhi Chandra
Feature Writer Pooja Tikekar pooja.v@eccouncil.org	riddhi.c@eccouncil.org Digital Marketing Manager
Media and Design Media Director	Jiten Waghela jiten.w@eccouncil.org
Saba Mohammad saba.mohammad@eccouncil.org	Publishing Sales Manager Taruna Bose taruna.b@eccouncil.org
UI/UX Designer Rajashakher Intha rajashakher.i@eccouncil.org Sr. Graphics Designer Sameer Surve sameer.s@eccouncil.org	Publishing Sales Manager Vaishali Jain vaishali.j@eccouncil.org
	Technology Director of Technology

Image credits: Shutterstock Cover design: Rajashakher Intha

Raj Kumar Vishwakarma

rajkumar@eccouncil.org

EDITOR'S NOTE

Think like the Enemy!

There is a game called Ambush that is designed for young adults to play for team building and confidence building purposes. The rules of this wargame are simple: the group splits up into two teams. One team hides in the forest, choosing their places strategically to minimize their chances of being found or ambushed. The other side then sets out to find them, and when they do, they yell "ambush!" I reckon it is the militarized version of the popular "hide and seek" game. Of course, there are other aspects of this game that make it truly engaging and enjoyable—like exploring nature, navigation, and teamwork. One also needs to have a good sense of the terrain, the foliage, and the surroundings to seek out the best hiding places—and the "enemy."

There is a connection between the game of Ambush and Red Teaming. In his book titled "Red Teaming," author Bryce G. Hoffman writes that business leaders can transform their businesses by thinking like the enemy. Past and current war generals are trained to do just that, pre-empting the enemy's next move.

Our Senior Feature Editor, Augustin Kurian, came up with the idea of producing an issue dedicated to Red Teaming. And the editorial team curated a set of Red Teaming articles from contributors.



In our BUZZ section, Dick Wilkinson, IT Security Officer, New Mexico Judicial Information Division, tells us how to plan and prepare for a Red Teaming exercise.

Be sure to read our interview with Tom Van de Wiele, Principal Security Consultant at F-Secure in TABLE TALK. Van de Wiele specializes in red team operations and targeted penetration testing for the financial, gaming and service industries.

The COVER STORY has been written by David Balaban, a computer security researcher with over 15 years of experience in malware analysis and antivirus software evaluation. Balaban runs the Privacy-PC.com project. We believe the tips, advice and best practices shared by our esteemed contributors will help you plan your next red teaming exercise.

Tell us what you think of this issue. If you have any suggestions, comments or queries, please reach us at editorial@cisomag.com or brian.p@eccouncil.org.

Jay Bavisi Editor-in-Chief

^{*} Responsible for selection of news under PRB Act. Printed & Published by Apoorba Kumar, E-Commerce Consultants Pvt. Ltd., Editor: Brian Pereira. The publishers regret that they cannot accept liability for errors & omissions contained in this publication, howsoever caused. The opinion & views contained in this publication are not necessarily those of the publisher. Readers are advised to seek specialist advice before acting on the information contained in the publication which is provided for general use & may not be appropriate for the readers' particular circumstances. The ownership of trade marks is acknowledged. No part of this publication or any part of the contents thereof may be reproduced, stored in a retrieval system, or transmitted in any form without the permission of the publishers in writing.

INDEX

10 BUZZ

Enter the Red Team



18 UNDER THE SPOTLIGHT

CISA is Taking a Holistic Approach to Securing Systems Across Sectors



28 COVER STORY

Red Teaming: Simulating Targeted Cyberattacks





38 TABLE TALK

All Sectors can Benefit from a Simulated Targeted Attack



48 KICKSTARTER

Making Augmented Reality a Reality - Ajna Lens



58 REWIND <<

Top Newsmakers and the Hottest Cybersecurity News of the Month.



Meet and Connect with:

- > 150+ Senior Infosec Leaders from Public and Private Sector
- > 20+ Thought Leaders and Influencers
- > 100+ Top Companies

REGISTRATIONS OPEN

For more details write to marketing@cisomag.com

#ksacybersec

Block your calendar

APRIL 21, 2020 RIYADH, SAUDI ARABIA





(#) events.cisomag.com



Dick Wilkinson, IT Security Officer New Mexico Judicial Information Division



ou are an IT leader in your company whether CIO or CISO, and you have determined that you have a very mature security program. You have a list of technical and administrative security controls and know why they are in place. You have stopped a variety of dangerous events in the past 12 months and you can see things are going well overall. Some leaders would say that you have achieved the best defensive posture you could possibly create. Security professionals know there is always room for improvement. The threats we can't see and can't plan for are still lurking. To have a true check on maturity, it is time to test out your fortress and see if a worthy adversary can cause any harm-enter the Red Team.

Red Team engagements are a series of simulated attempts to breach your security perimeter. The concept can include physical attempts to enter secure spaces, social engineering on the phone and in person, technical attacks against your computer network or even a spear-phishing attempt at senior board and executive members. The team of people executing these attacks will be given some amount of limited knowledge about your organization and some clear boundaries on acceptable behavior. Rules may include: no breaking windows to gain entry or physically damaging computer equipment to disrupt the network. You must capture these boundaries in your contract's statement of work. The hope is to create a realistic dress rehearsal of attacks your organization may face. Understanding your business market, the security practices of industry peers and the threats that face your industry as a whole are crucial to creating a realistic set of scenarios your security plan can defend against. The previous experience of the red team will likely determine what techniques they find most useful. Be open to suggestions from the team and listen to how they have helped previous clients. This event can be a learning experience for your organization, even during the planning stages, before any offensive actions have taken place.

10 - CISO MAG - March 2020 Vol 4 - Issue 03 Vol 4 - Issue 03 March 2020 - CISO MAG - 11





