



CISO Alliances

MAURITIUS CHAPTER

2nd of June 2022
Results



CISO Alliances



Alliance - ‘A union formed for mutual benefit’

Community – ‘1: a unified body of individuals: such as. A: the people with common interests living in a particular area broadly: the area itself the problems of a large community’

CISO  Alliances



 **Digital Alliances**
continue collaboration

 Executive Business Exchange

DPO Alliances

CIO Alliances

CISO Alliances

CXO Alliances

CMO Alliances

CDO Alliances

Foreword



Leigh Thomas
Director & Founder

We are a group of driven and ambitious professionals who strive to achieve the ideal.

We have built and participated in C-level communities in a variety of industries, including Oil & Gas, Mining, Power & Enterprise IT, Information and Cyber Security, and across many divisions.

The Alliances Community's basic ideals were born along with Alliance Media Group, as defined by the Collins dictionary: "A union formed for mutual benefit." Everyone must believe in their own ability to succeed and improve. This can only be accomplished via selflessness in sharing and genuine feedback from everyone to whom we devote our time.

We no longer consider this industry to be B2B, but rather P2P. (Peer to Peer). Our intentions are to create a trusted platform for executives tackling similar business objectives to leverage their collective experience to support one another, debate opinions candidly for industry progression and professional growth, and benchmark strategies against one another, which we have been doing since August 2016. This is the community for CISO Alliances. The community built it for the community.

While understanding that in order to be sustainable in the modern world, every business will need to drive commercials. We believe that commercials should not be the driving force, but rather a solution to a 'why'.

Our Chapters and community are working to make an impact on the Events Managed Services industry, which continues to act as if money is the most important factor and not the value of time. The industry was founded on the premise that "everyone wants to learn," and we established the Alliances to ensure that end-user-driven meetings are solely focused on the educational needs of everyone involved as well as their business objectives. Focusing on the best practises for overcoming the common business objectives that motivate activity within each end user firm, rather than just global trends and themes to generate revenue.

Due to the Coronavirus pandemic, the digital environment has been forced to accommodate a remote workforce with limited human interaction since March 2020. As a result, our community representative has been open to digital chapters in addition to physical chapters when they return in Q3 2022. This complements our efforts in community building and makes the community feel like they are part of a continuous effort to meet their educational needs.

14.00

Welcome Remarks & Joining Time

14.10

Overview

Session Leaders:

Brian Chappell, Chief Security Strategist – BeyondTrust

Session Title:

Zero Trust: Getting Least Privilege Right, Finally

The poster features a cityscape background. On the left, the DigitalAlliances logo is displayed with the tagline 'continue collaboration'. The session title 'Zero Trust: Getting Least Privilege Right, Finally' is centered. Below it, the location 'Mauritius' is listed. The date and time 'Thursday 2nd of June 2022, 14.00-15.30 (UCT +04:00)' are provided, along with the email 'fundile@alliances.global' and the website 'www.alliances.global'. On the right, a portrait of Brian Chappell is shown with his title 'Chief Security Strategist, BeyondTrust'. The top right corner mentions 'In partnership with BeyondTrust' and the bottom right corner features the 'CISO Alliances' logo.

DigitalAlliances
continue collaboration

In partnership with
BeyondTrust

"Zero Trust: Getting Least Privilege Right, Finally"

Mauritius

Thursday 2nd of June 2022
14.00-15.30 (UCT +04:00)
fundile@alliances.global
www.alliances.global

Brian Chappell
Chief Security Strategist
BeyondTrust

CISO Alliances

14.50

Q & A

15.25

Action Areas and Next Steps

DigitalAlliances
continue collaboration

CISO Alliances

Overview

Date: [Thursday, 2nd of June 2022](#)

Time: [14.00 pm – 15.30 pm \(UCT +04:00\)](#)

Platform: [Digital Alliances](#)

Location: [Digital Alliances – Microsoft Teams Link – Invite Only](#)

Overall Theme: **Zero Trust: Getting Least Privilege Right, Finally**

The Digital Alliances is a platform created to ensure our communities are enabled to utilise our candid approach to benchmark and to continue collaboration where physical Chapters are restricted



Focused Session



Session Leaders

Brian Chappell, Chief Security Strategist – BeyondTrust

Zero Trust: Getting Least Privilege Right, Finally

Zero Trust has become one of these buzz words. But what is actually behind? Decrypt the concept with Brian Chappell, Chief Security Strategist at BeyondTrust, and leave this session with practical takeaways and solid answers.

The more the traditional perimeter blurs or dissolves, the more zero trust comes into focus. At its core, zero trust aspires to eliminate persistent trust, and enforce continuous authentication, least privilege, and microsegmentation. This approach reduces the threat surface and also minimizes the threat windows during which attackers can inflict damage, helping to protect against everything from simple malware to advanced persistent threats.

The reality is, for most organizations, achieving a 100% zero-trust state is a pipe dream. However, any implementation of zero trust controls should substantively help minimize your attack surface and cyber risk. Understanding your barriers to zero trust will also help you forge the best path to optimally securing your environment, including upgrading from legacy applications and architectures to ones that support zero trust.

In the session, our session leader will explore on:

- What is behind the concept of Zero Trust
- The goals of Zero Trust
- Roadblocks to Zero Trust (legacy architectures and technologies)
- How Privileged Access Management aligns with and enables Zero Trust

If you're ready to cut through zero trust myths and clearly grasp what it will take for you to improve zero trust security controls, and how your organization stands to benefit, this event is for you!



Takeaways

What do you think of the cybersecurity model that make use of COBIT or NIST with CIS/CSF benchmark?

There are so many common aspects of regulatory compliances that make almost all applicable when looking at a cybersecurity strategy, particularly if you are struggling with where to start. Zero Trust, like so many cybersecurity models, builds on from other approaches – at least in regard to the cybersecurity basics which are so essential in ensuring our security operation is built on solid foundations.

To put the board at ease, what security dashboard would you recommend? What should be included on the dashboard?

Dashboards are going to be largely individual and driven by your Board. That said, remember that the Board are focused on organisational success which is often dominated by risk. Being able to present the cybersecurity status in terms of organisational risk will give you the most direct route to both their attention and understanding. Review the dashboard with your Board, check they understand what's presented and that the information is valuable to them. Like any metrics, focus on the information that is important and relevant to the audience and are going to support your activity. This doesn't mean hiding data but rather ensuring that everything presented has value and informs.

Have you identified larger organisations that are already operating at an optimal zero trust maturity level?

Zero Trust as an approach is still relatively early in terms of adoption for many organisations and the progress along the journey varies from business to business. I'm not aware of any organisation that has reached a 'maintain' state ('maintain state' = the underlying infrastructure, technology, processes and people are in place and they are now tracking developments to expand and improve their ZT architecture) in their Zero Trust efforts. Many organisations are concerned that they are behind the curve in cybersecurity journey but I would suggest that they are definitely not alone. The only truly bad cybersecurity implementation is the one that hasn't started yet.

Takeaways

Assessing security on cloud platforms, especially aaS applications is easier said than done. Just knowing what questions to ask and what to check is a challenge

While the Cloud has been around for many years now, the form has evolved and the capabilities have mushroomed. Don't be afraid to ask Cloud Service Providers what other organisations are asking them for but make sure anything you take into your list are requirements for your business. This is the biggest stumbling block I see for any cybersecurity project, or in fact any project. Poor requirements gathering will impact your efforts making it ever harder to reach any kind of maturity. Ensure everything on the requirements list links back to a business benefit (tangible or intangible) and your questions will then be around how the CSP delivers against those requirements.

With cloud adoption, we see more and more use of APIs, naturally. Any thoughts on API security and related UAM/PAM?

APIs present a challenge as, in many ways, as we need to secure them but they are often also high volume services that have data integrity requirements. Positioning something between your app and the API(s) it's using could have negative impacts both on performance and integrity. That said, API gateways offer great opportunity to abstract both the APIs and the access to them into a far more granular approach.

How should you handle credentials in a devsecops environment?

Carefully. DevOps and DevSecOps tend to be highly automated environments (lots of scripts) that operate at high transaction volumes. It's essential that we build or adapt those environments to leverage solid PAM principles and tools sooner rather than later – the size of the problem space is growing rapidly and beyond linearly. DevOps tools already exist to manage the credentials in these environments. Tools built on the same technologies are the DevOps/DevSecOps systems with the same elastic scaling and resilience those environments need.

Takeaways

Password renewal with set days until change question/ MFA?

The death of passwords has been declared dozens of times over recent years and they are still here. What has changed is what the primary authentication mechanism is. We see increasing use of biometrics for human-machine authentication and the rise of MFA (usually just 2 factors – password and token) where, in truth, the token is the primary authentication mechanism despite it being the second entered. Passwords will remain as a fallback even when auth is biometric and/or token. For machine-to-machine authentication (or system-to-system), the password will endure because it has to. In the term password I include any string of characters or bytes presented as an authentication token. Machines/applications don't have eyes, faces, fingerprints, etc. and necessarily need to contain everything needed to authenticate within their 'box'. This is where Zero Trust, with its segmented trust zones, can really shine. If you ensure all access to a restricted resources comes from trusted IP addresses (app servers and PAM session proxies) then you contain the scope of the passwords. There are other layers of security to apply but there are some big wins to be made with relatively simple technology and a consistent approach.

Telco regulator (ICASA) has placed the burden on telcos to capture fingerprints of customers. This will make Telco the target for hackers. Not only that if they bridge the systems where we store the fingerprint scans it carte-blanche.

Any organisation that stores sensitive personally identifiable information (PII) will naturally be a target for hackers but we already have guidance on how to address the storage and management of such information. There are number of data privacy regulations across the world to draw upon (even if your country doesn't have one yet – it will and it'll necessarily be based on existing legislation) and Zero Trust will definitely contribute significantly to that kind of security by promoting smaller trust zones and segmentation limiting access to the stored fingerprints to only those systems and services that absolutely need it.





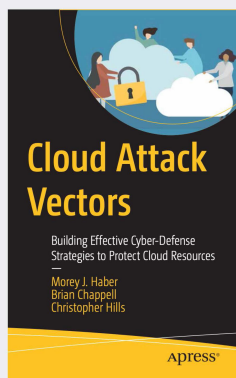
Zero Trust

Getting Least Privilege Right, Finally

Brian Chappell

Chief Security Strategist

- 30+ years IT and cybersecurity experience
- Senior roles in vendors, OEMs, system integrators, and multi-nationals in Support, Software Development, Product Management, Project Management, Architecture, Operations and Sales Engineering
- Co-author of the upcoming book Cloud Attack Vectors published by Apress (Available 21st July 2022)

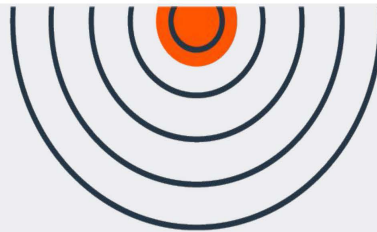


**The Zero Trust framework is still fairly vague
in terms of what specific technology is required,
and how to implement it.**

**Consequently, it has become an industry buzzword
that can mean many different things.**

InfoSecurity Magazine

Feb 10, 2021



Zero Trust

An evolving set of cybersecurity paradigms that move
defenses from static, network-based perimeters to focus
on users, assets, and resources

NIST Special Publication 800-207, Zero Trust Architecture



NIST Zero Trust Definitions

Main Goal

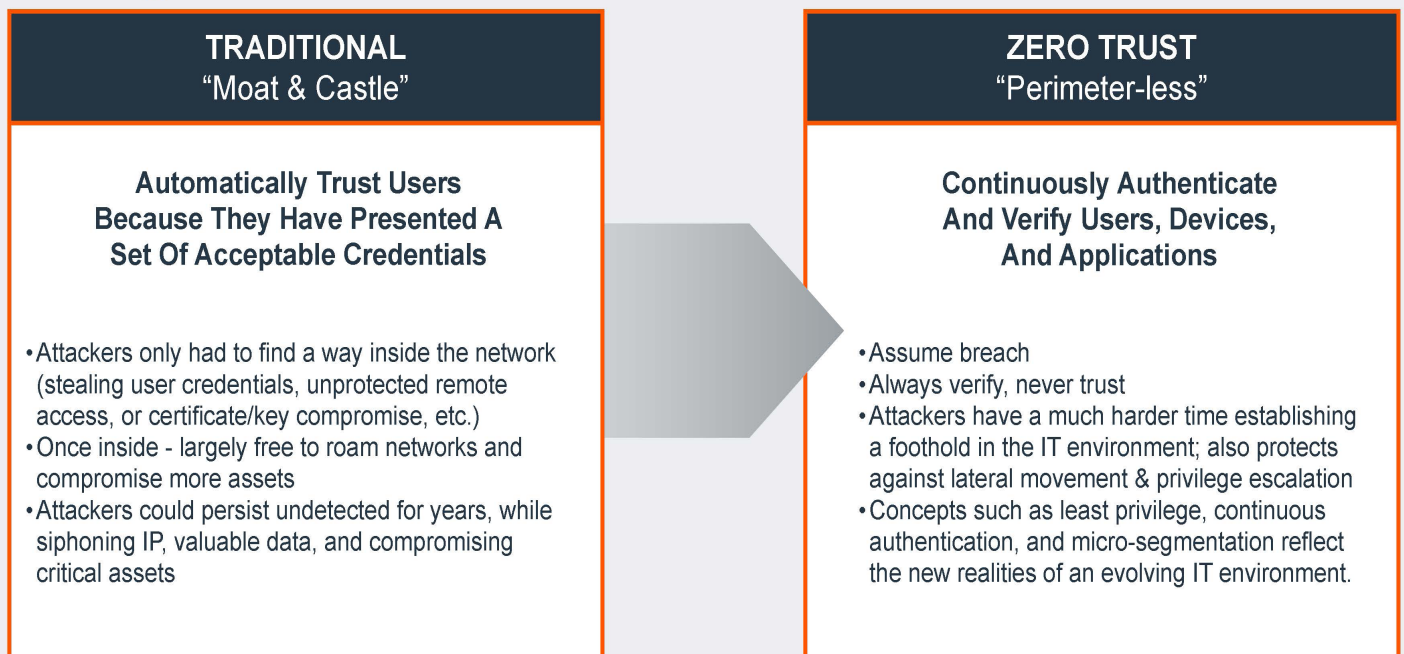
“Prevent unauthorized access to data and services, coupled with making the access control enforcement as granular as possible”

- ✓ Zero Trust is a collection of concepts centered around validating and authenticating everything
- ✓ Zero Trust Architecture (ZTA) is a cybersecurity plan applying zero trust principles and encompasses component relationships, workflow planning, and access policies

Source: NIST SP 800-207, Zero Trust Architecture, August 2020

©BeyondTrust 2022 | 4

Why Zero Trust, Why Now? The Shift to Zero Trust

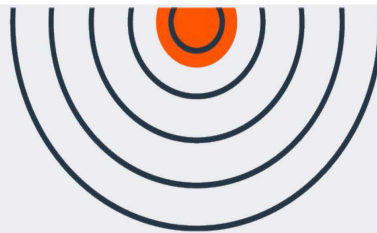


©BeyondTrust 2022 | 5

The Path To Zero Trust

From Ambition to Reality

- NIST provides a clear playbook on how to adopt zero trust principles
- Organizations are embracing zero trust frameworks building these into their security strategies
- Zero trust is not a single set of technologies an organization can purchase – it's a guiding set of principles that organizations will gradually adopt as they shift resources from on-premises to the cloud, and retire legacy architecture
- Hybrid implementations are expected to continue, given the challenges of modernizing legacy systems that may be incompatible with zero trust



The Role of PAM

Applying the granularity of Privileged Access Management (PAM)
**to achieve Zero Trust objectives ensures all access
is appropriate, managed, and documented—**
regardless of how the perimeter has been redefined



Zero Trust Success Requires PAM

- PAM solutions enable Zero Trust by providing granular privilege control to enforce appropriate access
- A variety of PAM capabilities can enable Zero Trust use cases - from local applications through remote access
- Zero Trust and PAM can enable “just-in-time” access to applications and sessions and eliminate always-on privileged accounts to help achieve zero-standing privileges (ZSP) - this drastically reduces threat windows
- PAM policies and session monitoring form the basis for user behavioral monitoring



©BeyondTrust 2021 | 8

Three Principles of the Zero Trust Model

1

Require **secure and authenticated access** to all assets



2

Adopt **a least privilege model** and enforce access control



3

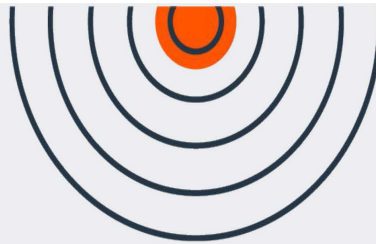
Inspect and log all activities using security analytics



©BeyondTrust 2022 | 9

8 WAYS PAM Enables Zero Trust:

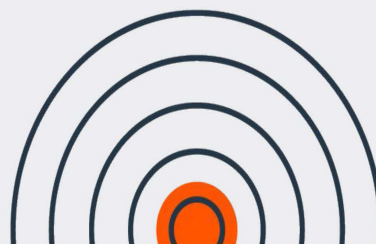
1. **Discovers, inventories, and smartly groups** all privileged assets to eliminate blind spots, illuminate shadow IT, and control access points
2. **Continuously enforces** adaptive and just-in-time access controls based on context
3. **Manages and enforces** credential security best practices for all privileged passwords, secrets, and keys for accounts
4. **Applies least privilege controls** for every identity and account - human, application, machine, employee, vendor, etc.
5. **Implements** segmentation and microsegmentation to isolate various assets, resources, and users to restrict lateral movement
6. **Secures remote access** with granular least privilege and adaptive capabilities well beyond that of VPNs, RDP, and other common remote access technologies
7. **Secures access to control planes** (cloud, virtual, DevOps) and sensitive applications
8. **Continuously monitors, manages, & audits** every privileged session that touches the enterprise

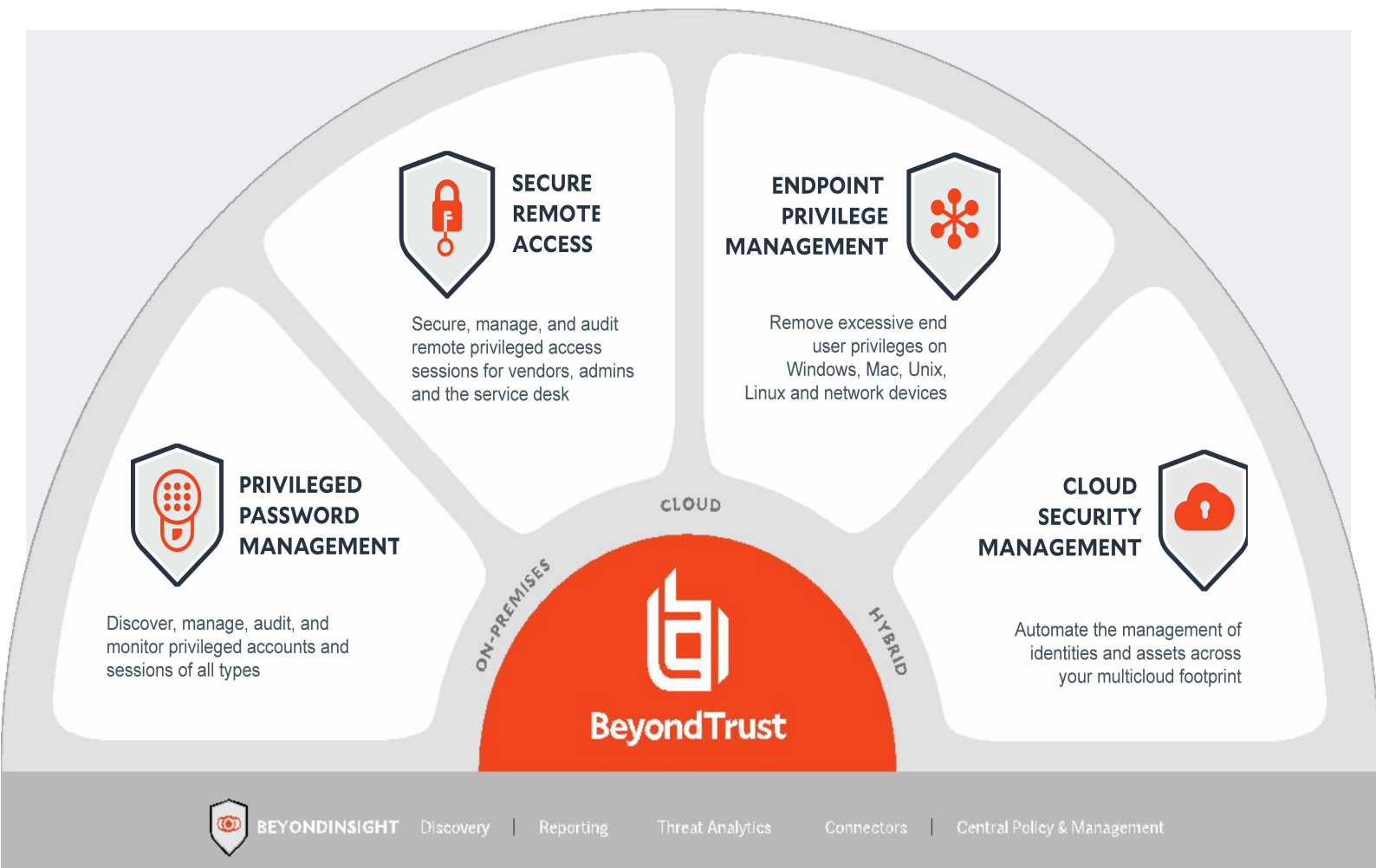


BeyondTrust and Zero Trust

Our solutions support the smart, practical implementation of NIST's Zero Trust security model without disrupting business processes.

BeyondTrust solutions can be implemented with a Zero Trust Architecture (ZTA).





BeyondTrust Resources

 <p>A ZERO TRUST APPROACH TO SECURE REMOTE ACCESS</p> <p>Protecting Privileged Access for All Remote Sessions</p> <p> BeyondTrust</p>	 <p>ZERO TRUST APPROACH TO WINDOWS & MAC ENDPOINT SECURITY</p> <p>Building a Zero Trust Architecture with Endpoint Privilege Management</p> <p> BeyondTrust</p>	 <p>A Zero Trust Approach to Privileged Password Management</p> <p>Securing Resources From Inappropriate Access</p> <p> BeyondTrust</p>
--	--	--

CISO Alliances

CISSOP



PROCEDURES BY PROFESSIONALS
SECURING THE BUSINESS

CISSOP by the CISO Alliances

Cyber and Information Security Standard Operating Procedures

Simply put, this has been launched to empower the end user executive to have input and control a truly end user only procedure around the true focuses in securing the business from a Cyber and Information Security perspective.

Why we are working on it?

The Cyber and Information Security Business Divisions are likely to be battling the same or similar threat landscape and impactful and disruptive breach attempts. Not much is standardised or end-user produced in terms of procedures. This is fundamentally why CISSOP by the CISO Alliances was born.

Planned Outcomes

Leverage CISO Alliances community experiences to create a standardised approach to business in Cyber and Information Security where possible

Published to the active global community

Published as a playbook. Printed and distributed to the wider Cyber and Information Security Community

Expressions of interest to be sent to

cissops@alliances.global

Can you suggest and contribute to create a standardised operating procedure with your peer?

Produced by:



Alliances Activities



CISO Alliances

UK & IRELAND
DUBLIN
EDINBURGH
MANCHESTER
LONDON

 Executive Business Exchange

NORTH AMERICA

CISO Alliances

LAGOS CHAPTER
ACCRA CHAPTER
ABUJA CHAPTER

 Executive Business Exchange

SOUTH AMERICA

CXO Alliances

WESTERN CAPE CHAPTER
KWAZULU NATAL CHAPTER
GAUTENG CHAPTER



CISO Alliances

CAIRO CHAPTER



Executive Business Exchange

ASIA



Executive Business Exchange

RIYADH
DUBAI
DOHA

CXO Alliances

NAIROBI CHAPTER
PORT LOUIS CHAPTER



Executive Business Exchange

AUSTRALIA