

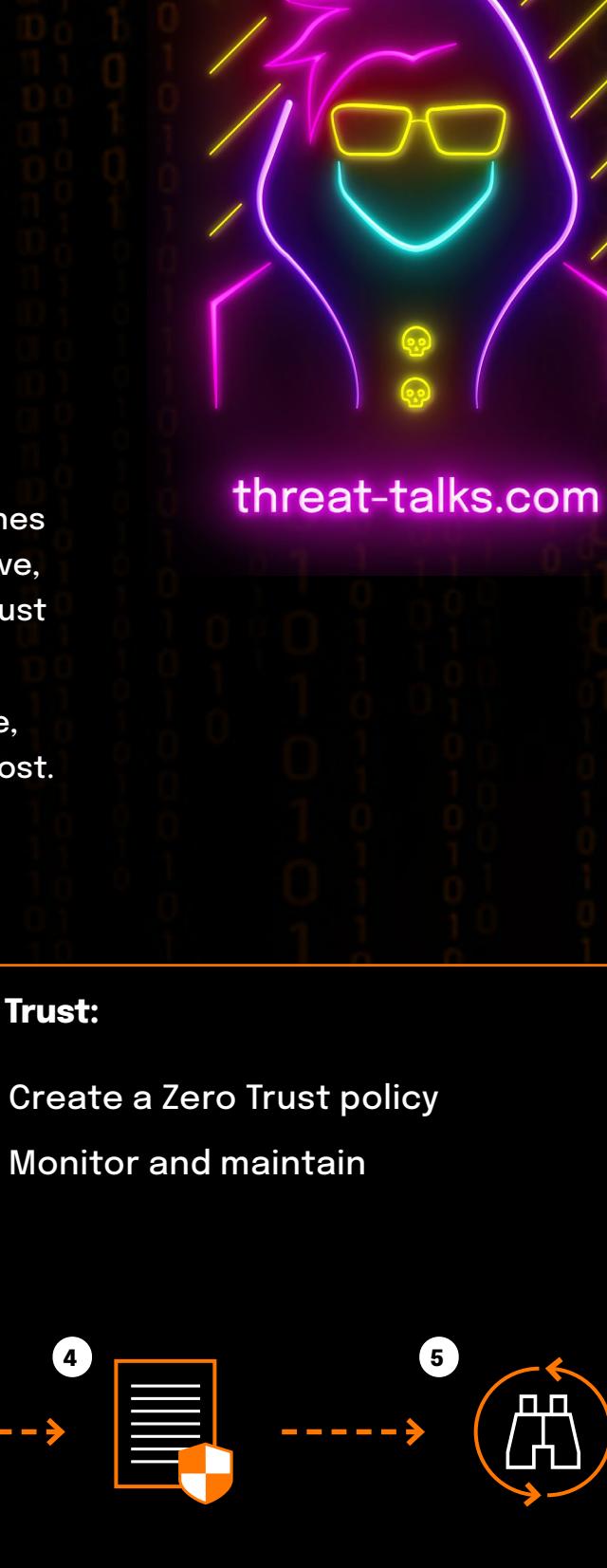
Threat Talks

Zero Trust

Never trust, always verify.

Zero Trust is a strategic initiative that helps prevent successful data breaches by eliminating digital trust from your organization. Contrary to popular belief, Zero Trust does not mean we don't trust people. It means we don't blindly trust the digital traffic moving through our networks.

Instead of engaging in an endless arms race with hackers across your entire, ever-growing attack surface, Zero Trust shifts the focus to what matters most. A strategy based on prevention, the Zero Trust strategy protects your most valuable data, applications, assets, and services.



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In this Threat Talks infographic we will discuss the five steps of Zero Trust:

- Step 1: Define the protect surface
- Step 2: Map the transaction flows
- Step 3: Build a Zero Trust architecture
- Step 4: Create a Zero Trust policy
- Step 5: Monitor and maintain



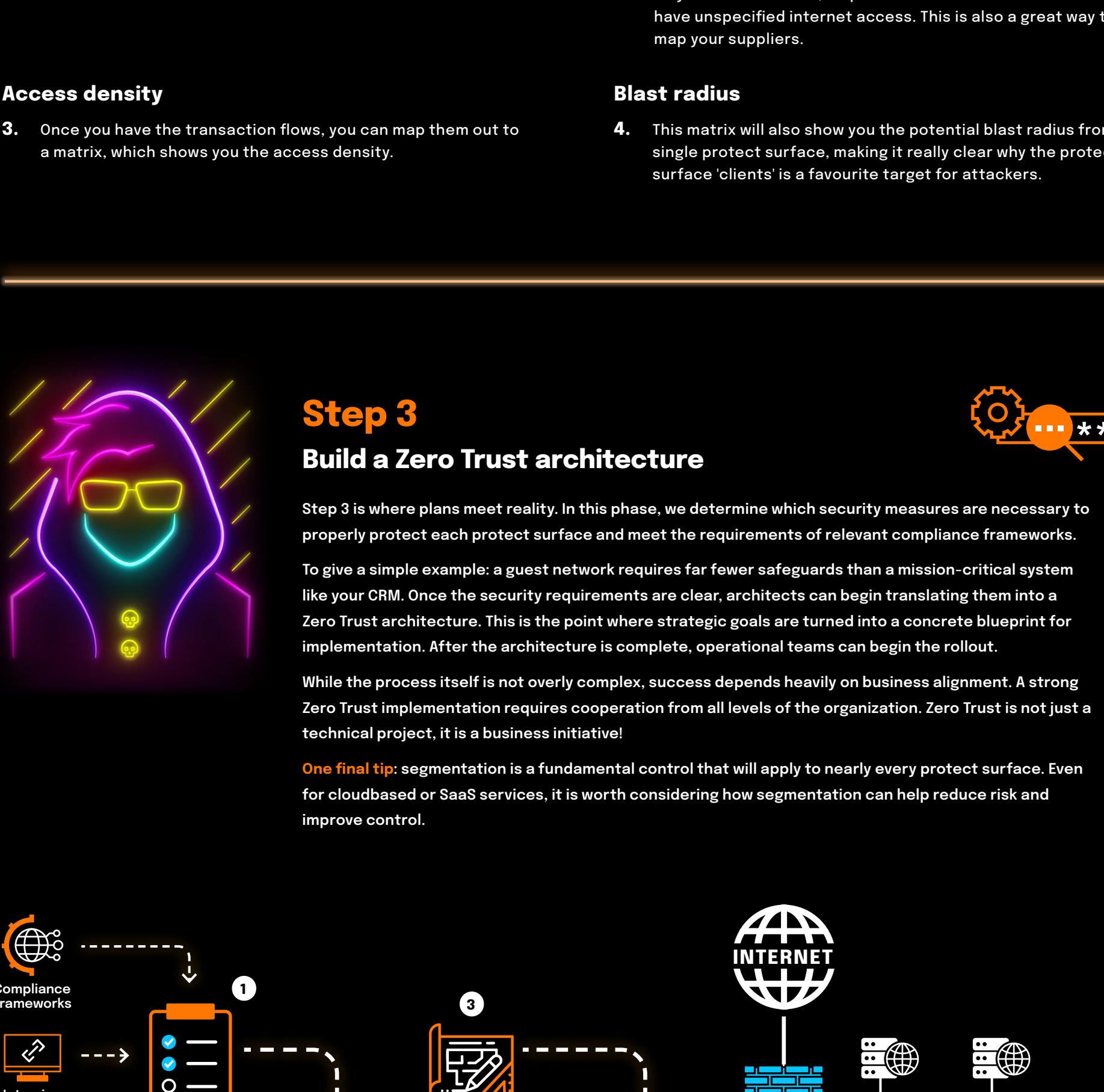
Step 1 Define the protect surface

Definition

It really is that simple. In step one, we define what we need to protect. It is important to understand that security is not the goal itself: it exists to help the business run smoothly. That means we must look at what needs protection from a business perspective. For example: it is not about protecting web servers, but about protecting the corporate website. It is not just a database, it is the Customer Relationship Management (CRM) system that is essential to our daily operations.

We call these domains that need protection protect surfaces. Once we have identified our protect surfaces, we add metadata to them. This helps us understand who owns the protect surface, how critical it is for the business, and whether there are any compliance requirements tied to it.

As a general rule, the easier it is to define metadata, the better defined the protect surface is. And one last tip: don't try to identify all protect surfaces at once. As your Zero Trust journey evolves, more will naturally become visible.



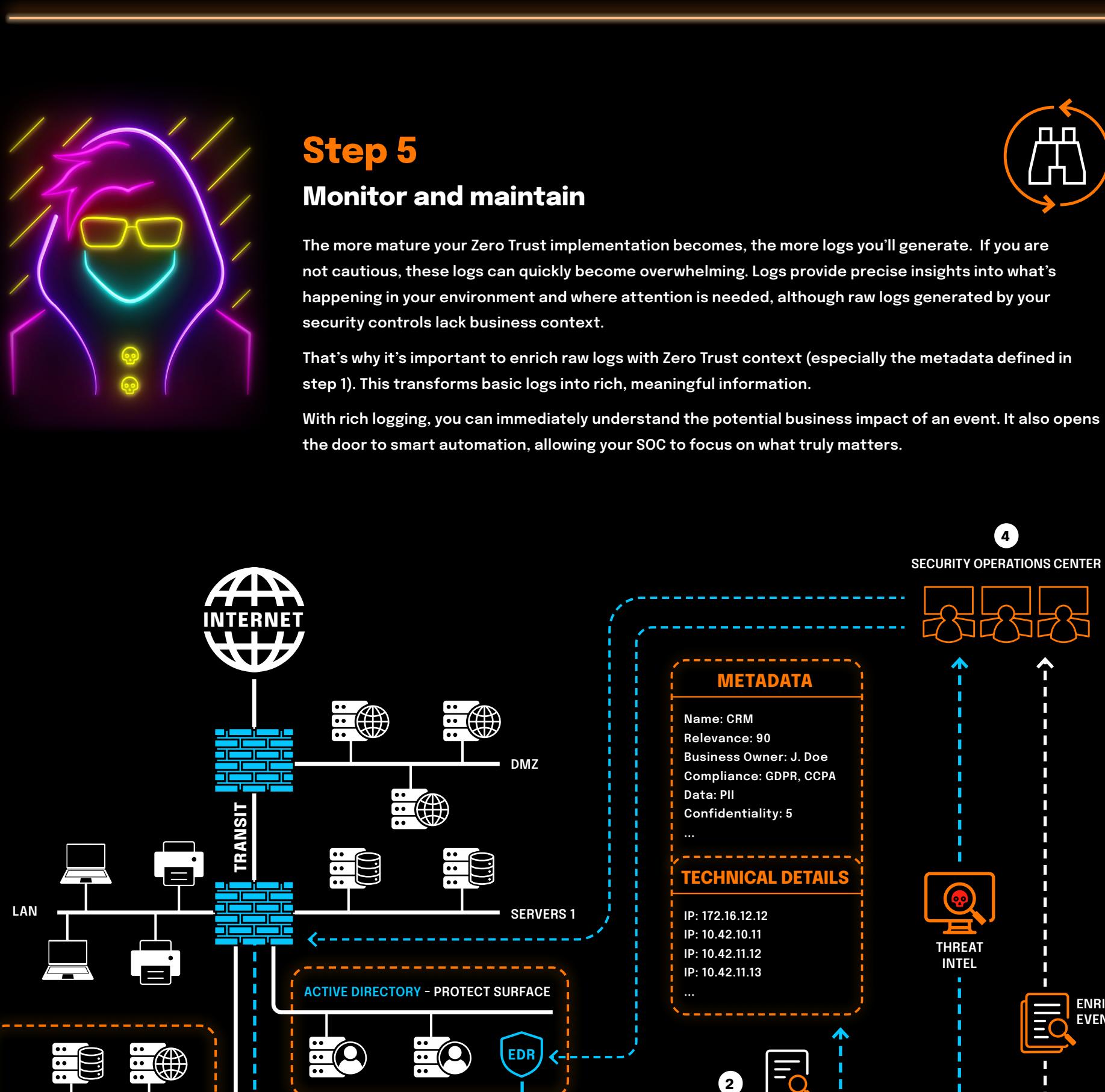
Step 2 Map the transaction flows

Transaction flows

Once you have identified a few protect surfaces, the next step is to start mapping the transaction flows: how these protect surfaces communicate with one another.

This step provides valuable insight into where data is moving across your environment, and just as importantly, helps you understand the potential blast radius in case of an attack. Knowing these communication paths allows you to assess which systems could be affected if something goes wrong.

Later in your Zero Trust journey, the transaction flow matrix can also serve as a powerful validation tool. By comparing actual traffic flows with the expected ones, you can verify whether your security controls and policies are correctly implemented and aligned with your design.



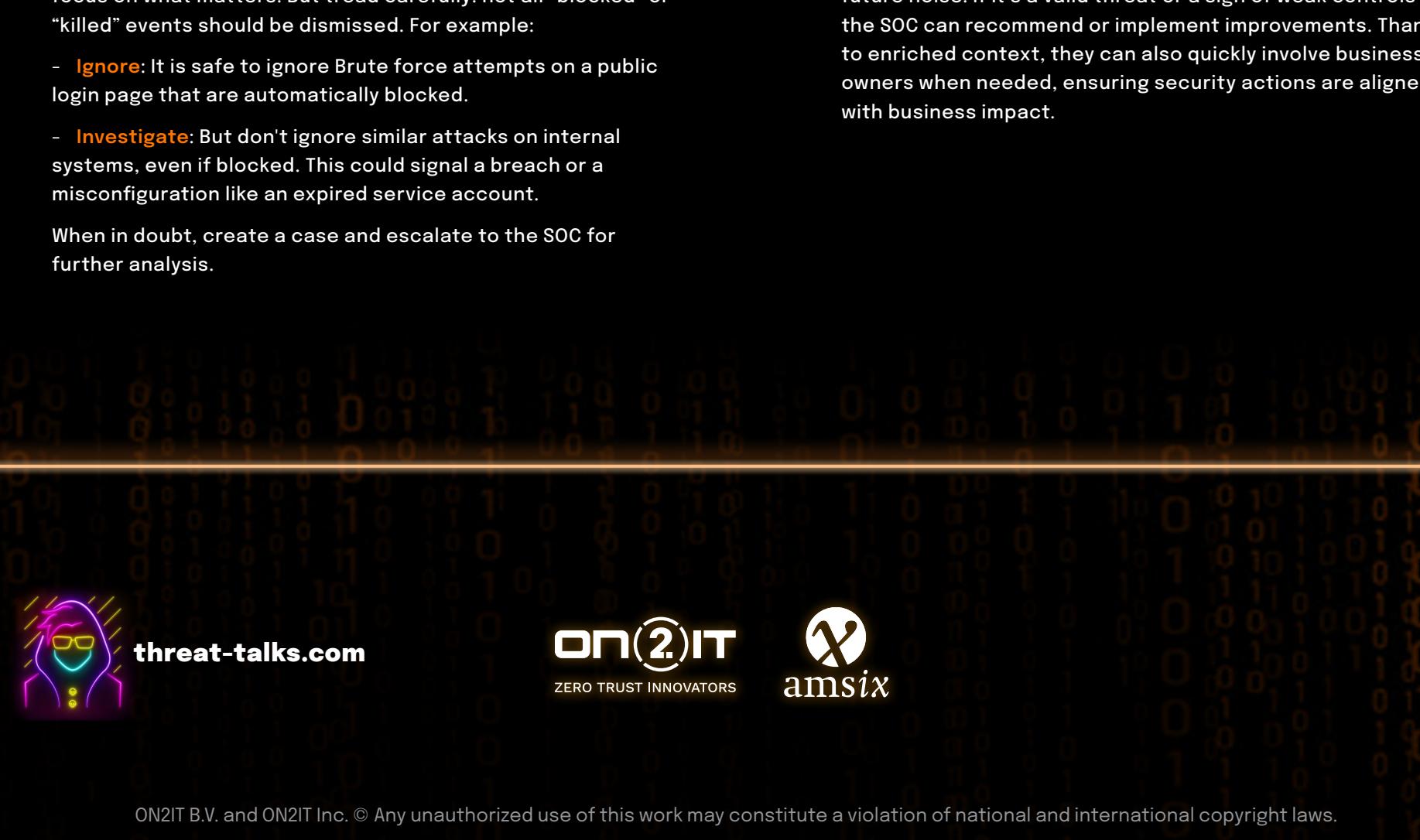
Step 3 Build a Zero Trust architecture

Step 3 is where plans meet reality. In this phase, we determine which security measures are necessary to properly protect each protect surface and meet the requirements of relevant compliance frameworks.

To give a simple example: a guest network requires far fewer safeguards than a mission-critical system like your CRM. Once the security requirements are clear, architects can begin translating them into a Zero Trust architecture. This is the point where strategic goals are turned into a concrete blueprint for implementation. After the architecture is complete, operational teams can begin the rollout.

While the process itself is not overly complex, success depends heavily on business alignment. A strong Zero Trust implementation requires cooperation from all levels of the organization. Zero Trust is not just a technical project, it is a business initiative!

One final tip: segmentation is a fundamental control that will apply to nearly every protect surface. Even for cloud-based or SaaS services, it is worth considering how segmentation can help reduce risk and improve control.



Step 4 Create Zero Trust policy

In this step, we define the Zero Trust policy for each protect surface. The foundation of Zero Trust is simple: by default, there is no access, nothing is trusted unless explicitly allowed.

From this starting point, we build a granular policy using the Kipling Method: who should have it, what they are allowed to do with it, when they are allowed to access it, why they need access, and how the connection is made.

This structured approach ensures that policies are clear, specific, and enforceable. Importantly, policies should always be defined from a business perspective. It is then the responsibility of the business.

Step 5 Monitor and maintain

The more mature your Zero Trust implementation becomes, the more logs you'll generate. If you are not cautious, these logs can quickly become overwhelming. Logs provide precise insights into what's happening in your environment and where attention is needed, although raw logs generated by your security controls lack business context.

That's why it's important to enrich raw logs with Zero Trust context, especially the metadata defined in step 1. This transforms basic logs into rich, meaningful information.

With rich logging, you can immediately understand the potential business impact. It also opens the door to smart automation, allowing your SOC to focus on what truly matters.

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Step 5 Monitor and maintain

Collect logging

1. As controls will generate increasing amounts of logs, security logs will quickly increase in volume. This is a natural consequence of Zero Trust, as more controls mean more data.

2. With the increased volume of logs, it's essential to review and analyze them to identify potential threats. This can be done using automated tools, such as log analyzers or machine learning algorithms.

3. It's also important to prioritize the logs generated by Zero Trust controls. For example, logs from a 'killed' event should be prioritized over a 'logged' event, as the former indicates a successful attempt to access a protected resource.

4. In addition to collecting logs, it's also important to enrich them with business context. This can be done by adding metadata, such as the protect surface, compliance requirements, and other relevant information.

5. Finally, it's important to regularly assess the effectiveness of the controls and make adjustments as needed. This can be done by reviewing logs and identifying any trends or patterns that may indicate a potential threat.

Enrich logging

2. Raw logs lack business relevance, which makes them less useful for analysis. By enriching logs with business context, such as the associated protect surface, compliance requirements, and other relevant information, you can gain deeper insights into what's happening in your environment.

3. This enriched data can then be used to identify potential threats and take appropriate action. For example, if a log indicates a successful attempt to access a protected resource, you can investigate further to determine if it was a legitimate request or a potential threat.

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