

In a red team assessment, the CrossCountry team attempts to gain access to your internal network (usually via **spear phishing** or **physical entry**), obtain a persistent foothold, stealthily move laterally through the network, and escalate privileges to the highest level (e.g., “Domain Admin” or similar). In a red team exercise, the Security Operations Center and/ or Incident Response teams are not informed, which evaluates their ability to detect and prevent a sophisticated attacker.

## KEY DIFFERENTIATORS

### Sophisticated Command and Control (C2) Infrastructure



Our infrastructure provides:

- Multiple C2 channels to persist in case of detection
- The C2 channels can use HTTPS, HTTP, and/ or DNS
- Malleable profiles that make C2 traffic appear benign even if SSL is inspected
- Automated C2 server creation and reconfiguration with Terraform scripting

### Spear Phishing with Fully Functional Payloads



- We not only measure the “click rate” on a spear phishing campaign, but also demonstrate the compromise of the phishing victim’s workstation
- Our payloads evade EDR/ antivirus detection and provide a beachhead on the phishing victim’s workstation for our team to pivot to the target’s internal network

### EDR/ Antivirus Evasion



- We stay abreast of which tools and techniques are likely to be detected by EDR and/ or antivirus, constantly updating your tools and techniques to remain stealthy

### Web Filtering Evasion



- We provide categorized, aged domains and/ or domain fronting to evade web filter controls for disallowing suspicious or uncategorized domains

### Secure Email Gateway Evasion



- Our team provides execution delays and various sandbox detection techniques that allow phishing payloads to bypass email gateway sandboxes

### Sophisticated Physical Security Testing



We offer onsite security tests such as:

- RFID Badge cloning
- “Drop Box” device that connects out via cellular modem
- Social engineering, lockpicking, and burglary tools



## CASE STUDY

### 1. Scenario



A Fortune 500 financial institution was developing an internal incident response capability. The client wished to test this new capability against the techniques of real attackers and find areas for improvement.

### 2. Our Approach



CrossCountry created a spear phishing campaign targeting their hiring process. The email sent to recruiters contained a resume with malicious code. We also performed a physical entry/ social engineering attack in parallel with the spear phishing attack by performing RFID badge cloning in the parking lot of the client's corporate headquarters, used the cloned badges to enter the building, and connected a rogue device to the network in a conference room.

### 3. Objective



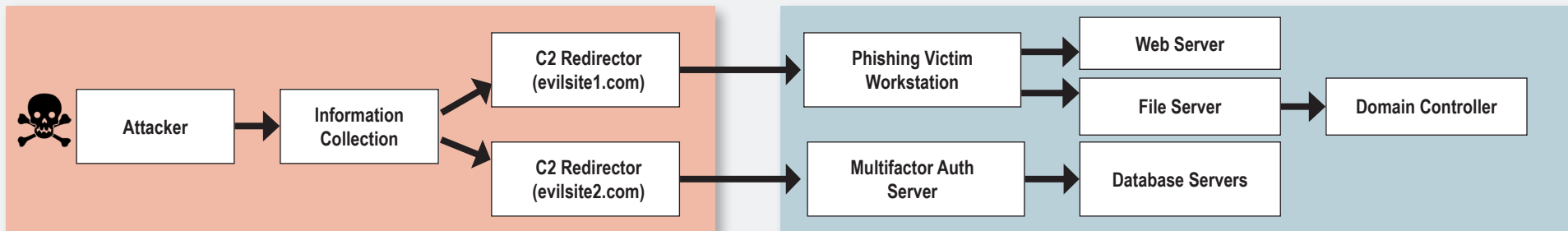
CrossCountry moved laterally from its initial foothold and escalated privileges, evading detection by EDR, antivirus, email sandboxing, and other security tools. CrossCountry compromised the domain controller, downloaded all employee hashes and cracked them offline, demonstrating full control of the client's network.

### 4. Impact



The client made multiple improvements to its incident response procedures and fine tuned its alerts based on the results of the test. They are now better prepared to detect and respond to a real incident in the future.

The following diagram shows CrossCountry's attack path:



## MEET OUR TEAM



**CAMERON OVER**  
Cyber & Privacy Partner Lead  
cover@crosscountry-consulting.com



**ERIC EAMES**  
Advanced Cyber Risk Lead  
eeames@crosscountry-consulting.com