Red Wizard

User friendly, automated RT infrastructure

https://github.com/SecuraBV/RedWizard

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Goal for today: Publish the Red Wizard tool and show you its capabilities



Infra Deployment

Agenda

- (Short) Intro to Red Teaming
- Red Teaming and infrastructure
- Red Wizard: Introduction
- Red Wizard: Basic Building Blocks
- Red Wizard: Demo Time
- Closing thoughts





Welcome! Who am I?



Ben Brücker

Domain Manager: Red Teaming @Secura since 2014

Trained Penetration Tester / Social Engineer / Trainer OSCP, GXPN, GMOB, MLSE



(Short) Intro to Red Teaming



A realistic cyber attack simulation to test the detection, response and mitigation capabilities of the defenders.

Full-Spectrum Operations





Red Teaming is unforgiving.

Red Teaming and infrastructure





Red vs. Blue













You have to do this a lot

Introducing: Red Wizard

What is Red Wizard?

Why did we make it?

- Deploying stuff manually is painful
- Must be easily explainable to new team members
- Infrastructure deployer is not always the operator
- Information sharing on how to use an infra costs time
- Spending less time on infra deployment results in more time for our customers



Is it unique? Is it rocket science?

Red Wizard Design Principles

- Simplicity trumps fanciness
- Operational Security (OPSEC)
- Must be robust
- No magical Black Boxes
- Everything must be self-documenting
- Easily extendable
- Preconfigured listeners / phishing profiles
- Log everything
 Secura

Maturity of the tool?

Technology behind Red Wizard?





Deployment Requirements

- Ubuntu 22.04 on the deployment system
 - (Your laptop or a VM is fine)
- Clean Ubuntu 20.04 on all target machines
 - (Will support 22.04 in the near future)
- 1 deployment user
 - (Configured for key-based SSH access on all machines)
- Deployment user has identical sudo password on all machines



Red Wizard Basic Building Blocks











C2	
Infra Component (Docker)	

Relay













Red Wizard Demo Time





Red Wizard Closing thoughts



Where to get it?

https://github.com/SecuraBV/RedWizard

Will there be bugs?

Publicly released components



What did we not release? What do you have to do yourself?

- Secura's Red Teaming secret sauce
 - OPSEC patches to GoPhish / Cobaltstrike etc
 - Malleable Profiles
- Other components for proprietary software
- Not all hardenings for our environments
- Relay website-generators
- Server deployment



Future public releases?

- RedElk integration (Red Team SIEM by Outflank)
- MitM Phishing (EvilGinx / Modlishka)
- Support for non-standard relays (domain fronting etc)
- Hardware implants?



Thank you! https://github.com/SecuraBV/RedWiza

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