

CounterCraft Deception Asset Studio™

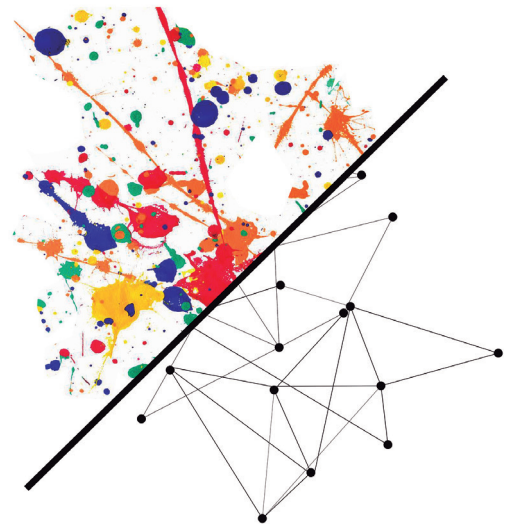
Counter
Craft

The art and science of crafting authentic deceptions

Credibility is key to get the best results from your Deception deployment. The Deception Assets must be believable to the attacker. The ultimate goal is to get the adversary to engage fully and spend their time and effort attacking false assets.

To achieve this, the creation of authentic Deception Assets that match your specific operational environment is critical.

The Deception Asset Studio is professional service giving you access to the full experience of the CounterCraft team to define, design, develop and deploy the most effective Deception Assets possible.



Open the door to the Deception Asset Studio

The Deception Asset Studio™ employs the classic combination of People, Process and Technology to craft the best deception environments for your enterprise cyber deception outcomes. The approach to authentic asset development is based on four main core areas:

Define

CounterCraft architects work on the holistic deception environment to determine what objectives and outcomes are best for you.

The team pay attention to your regulatory environment, risk appetite, risk tolerance and current Defence in Depth strategy and architecture. They critically assess your specific Threat Landscape.

Tools used: Interviews, Information Risk Register, Breach statistics, Enterprise Security Architecture, SABSA.

Outputs: An agreed view of the critical aspects for the customer, and any prioritization.

Develop

Dependent on the specific balance of Deception Assets and associated Deception Information being created a wide range of software tools may be used.

Outputs: Tested high quality deception hosts, services and Breadcrumbs

Design

At this stage the Deception Asset Studio team establish the specific aspects using Security by Design & Privacy by Design processes to iterate the required balance of Deception Attack Surface to be offered through the combination of Breadcrumbs, Deception Services and Deception Hosts with secure operational integrity of those assets.

Tools used: A custom deception design framework

Outputs: Architectural blueprints, Design patterns, required new Breadcrumbs, and test/Quality Assurance criteria

Deploy

This stage is driven by your business context and is naturally based on the CounterCraft Cyber Deception Director™. Any dependencies due to the existing Defence in Depth architectural components. SIEM, SOC and Threat Intelligence integration and inter-operability are taken into consideration. The Cyber Deception Platform has designed in extensibility interfaces with a fully featured API suite to enable compatibility with a broad range of systems. Industry standards such as JSON, STIX and CSV are shipped as standard.

Define



Design



Develop



Deploy



Examples

The range of Deception Assets is continually being evolved but we currently have asset profiles that encompass the following categories:

Breadcrumbs

- ✓ SSL Certificates, Fake browser cookies, HTTP headers and SSL certificates
- ✓ Honey tokens
- ✓ Documents with embedded Web bugs (e.g Office, GoogleDocs)
- ✓ Custom Mobile Apps
- ✓ Custom Web Portal Applications
- ✓ QR Codes

Deception Hosts

- ✓ Fully functioning complete Operating Systems (Windows and Linux)
- ✓ Fully functioning Virtual Machines
- ✓ Routers
- ✓ WiFi Access Points as full depth deception environments
- ✓ Mobile Phones

Deception Services

SSH, RDP, FTP/SFTP, HTTP/HTTPS Proxy, MySQL, Apache, Active Directory, Email, Office 365, Google Docs, WordPress, Shared File Servers, Custom Web sites.

Deception Personas

These are normally developed with our customer organisations as part of our co-creation workshops. They are a key attribute in developing an authentic deception campaign where a complete range of interlinked attributes need to be created and maintained.



End Client

The Deception Asset Studio team engages directly with End Clients ensuring that quality deception is delivered from day one. We provide guidance for choosing appropriate focus for deception operations & developing campaign structure. We handle initial deployments. We inform analysts about Deception Operations and potential benefits from Deception based strategies. We co-develop custom breadcrumbs with the End Client. We provide an end to end service to aid clients adopting Deception, whatever their previous experience in this area.

MSSP

CounterCraft works with select MSSP providers, globally. We provide the initial services and guidance for MSSP partners to launch and run managed Deception Services for their clients. We provide Solution Training, including requirements gathering and client diagnosis workshops. We give Deployment Guidance to cover the most complex ICT Estates that are present in demanding corporate MSSP clients. CounterCraft provides Support for ongoing operations and product updates and bespoke development for MSSP integrations with client systems and MSSP workflows.

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