

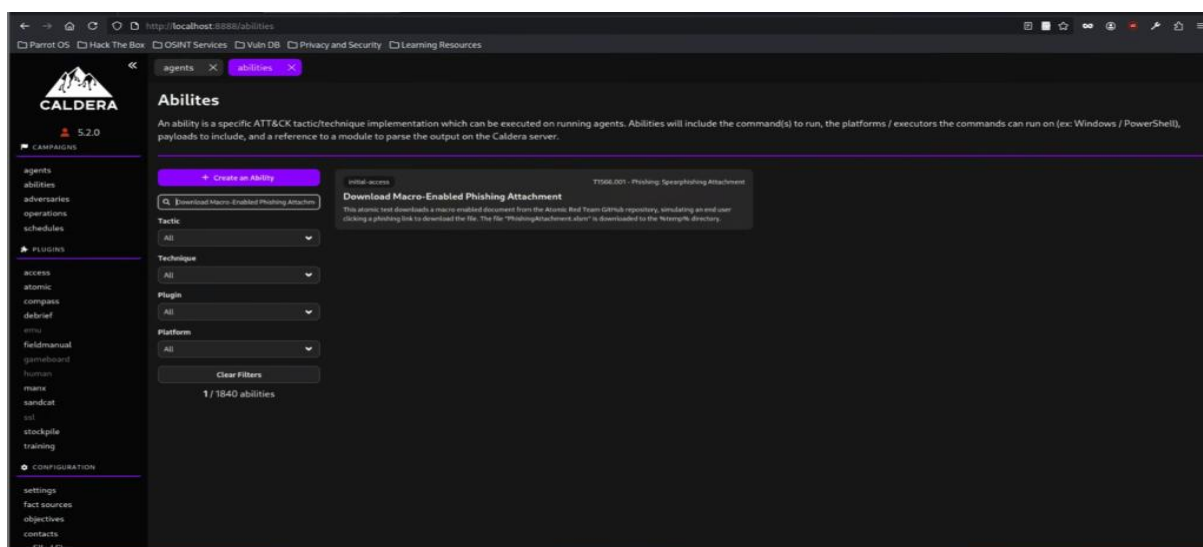
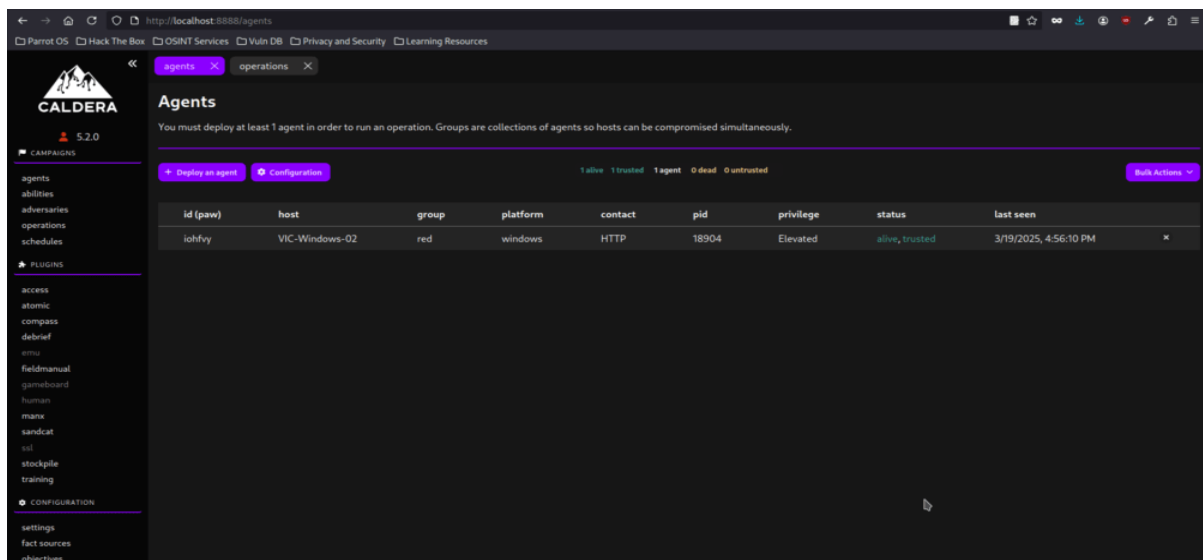


## 6. Automated Attack Orchestration

### Activities:

- **Tools:** Caldera, Red Team Automation (RTA).
- **Tasks:** Automate a multi-phase attack scenario.
- **Brief:**
- **Orchestration:** Use Caldera to automate a phishing-to-exploitation chain. Log:

Phase	TTP	Tool Used	Notes
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Exploitation	T1190	Caldera	Automated RCE







A screenshot of the Caldera web interface. The browser address bar shows 'http://localhost:8888/adversaries'. The top navigation bar includes links for 'Parrot OS', 'Hack The Box', 'OSINT Services', 'Vuln DB', 'Privacy and Security', and 'Learning Resources'. The main header features the Caldera logo (a mountain peak) and the version number '5.2.0'. Below the header, there are tabs for 'agents', 'abilities', and 'adversaries', with 'adversaries' being the active tab. The main content area is titled 'Adversaries' and contains a description: 'Adversary Profiles are collections of ATT&CK TTPs, designed to create specific effects on a host or network. Profiles can be used for offensive or defensive use cases.' At the bottom, there is a search bar labeled 'Select an adversary' and two buttons: '+ New Profile' and 'Import'.

### Emulation of an Attack Chain

This profile executes six abilities from different tactics, emulating a complete attack chain.

+ Add Ability
+ Add Advisory
🔒 Fact Breakdown
Objective: default
📄 Export
💾 Save
🗑️ Delete

collection 16.67%
discovery 16.67%
execution 16.67%
exfiltration 16.67%
initial-access 16.67%
multiple 16.67%

Ordering	Name	Tactic	Technique	Executors	Requires	Unlocks	Payload	Cleanup
1	Download Macro-Enabled Phishing Attachment	<a href="#">initial-access</a>	Phishing: Spearphishing Attachment	mshta				🗑️ ✖
2	Create a Process using WMI Query and an Encoded Command	execution	Windows Management Instrumentation	cmd				✖
3	Winlogon HKLM Shell Key Persistence - PowerShell	<a href="#">multiple</a>	Boot or Logon Autostart Execution: Winlogon Helper DLL	cmd				🗑️ ✖
4	Identify local users	<a href="#">discovery</a>	Account Discovery: Local Account	cmd	net user			✖
5	Zip a Folder with PowerShell for Staging in Temp	<a href="#">collection</a>	Data Staged: Local Data Staging	cmd			🔔	🗑️ ✖
6	Exfiltrating Hex-Encoded Data Chunks over HTTP	<a href="#">exfiltration</a>	Exfiltration Over Unencrypted Non-C2 Protocol	cmd				✖



### Start New Operation

**Operation Name**

**Adversary**

**Fact Source**

**Group**

**Planner**

**Obfuscators**

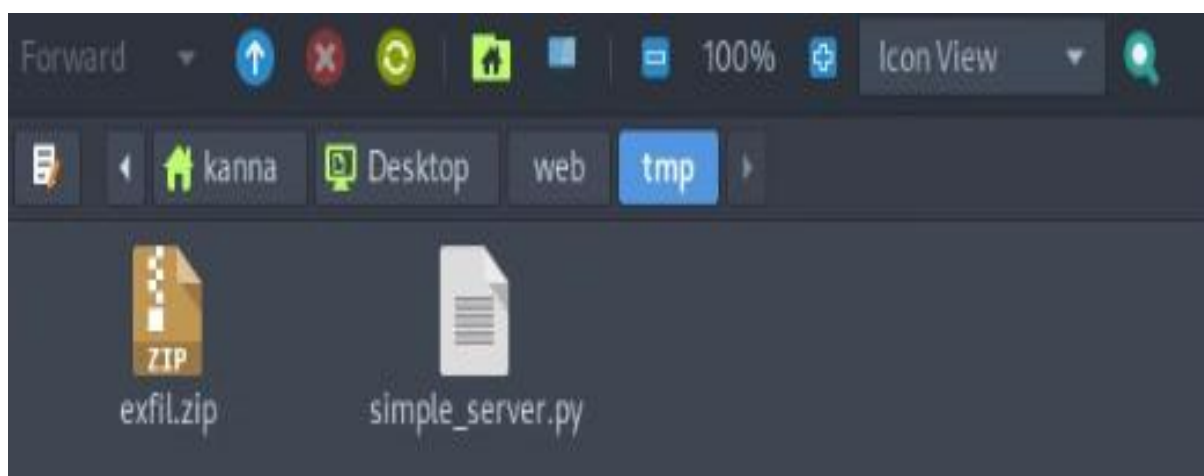
**Autonomous** ☒ Run autonomously ☐ Require manual approval

**Parser** ☒ Use Default Parser ☐ Don't use default learning parsers

**Auto Close** ☒ Keep open forever ☐ Auto close operation

**Run State** ☒ Run immediately ☐ Pause on start

**Jitter (sec/sec)**  /





- **Summary:** Write a 50-word orchestration summary.

We are utilizing the caldera framework to simulate an attack chain that runs from Initial Access to Achieving the Objective. For this test, we will follow the flow diagram provided below.  
Initial access -> Execution -> Persistence---->Discovery---->Collection---->Exfiltration.