

# Impact: Low Orbit Ion Cannon (LOIC)

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# LOIC



# LOIC

Creator: Praetox Technologies



**Low Orbit Ion Cannon (LOIC) is an open-source network stress tool. The open-source tool available on GitHub is based on Praetox's LOIC project and now managed by multiple contributors.**





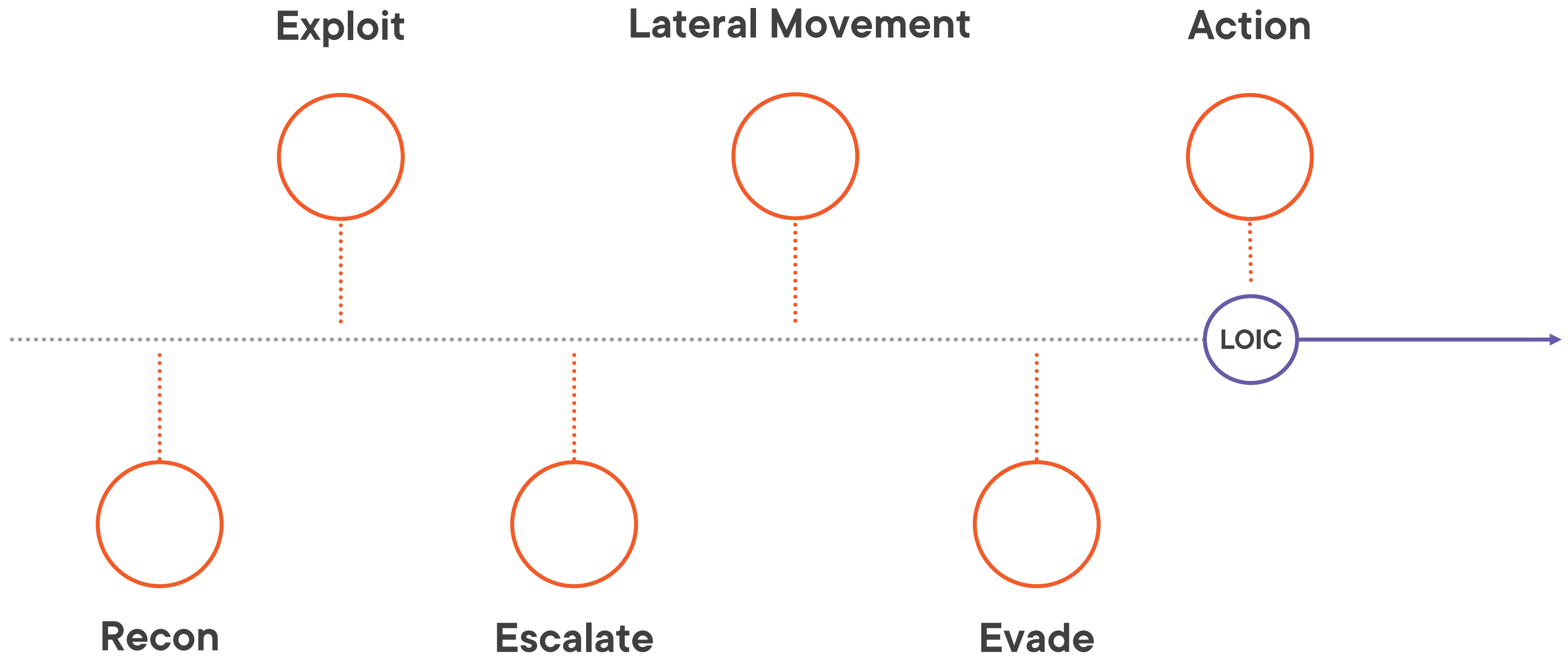
**LOIC is a network stress tool.**

**LOIC is available on GitHub.**

**LOIC is very easy to operate. You can control multiple instances using an IRC channel and hivemind mode.**



# Kill Chain



# MITRE ATT&CK

## Tactics

**Initial Access**

**Execution**

**Persistence**

**Privilege Escalation**

**Defense Evasion**

**Credential Access**

**Discovery**

**Lateral Movement**

**Collection**

**Command & Control**

**Exfiltration**

**Impact**



# MITRE ATT&CK

## Tactics

Initial Access

Execution

Persistence

Privilege Escalation

Defense Evasion

Credential Access

Discovery

Lateral Movement

Collection

Command & Control

Exfiltration

**Impact**

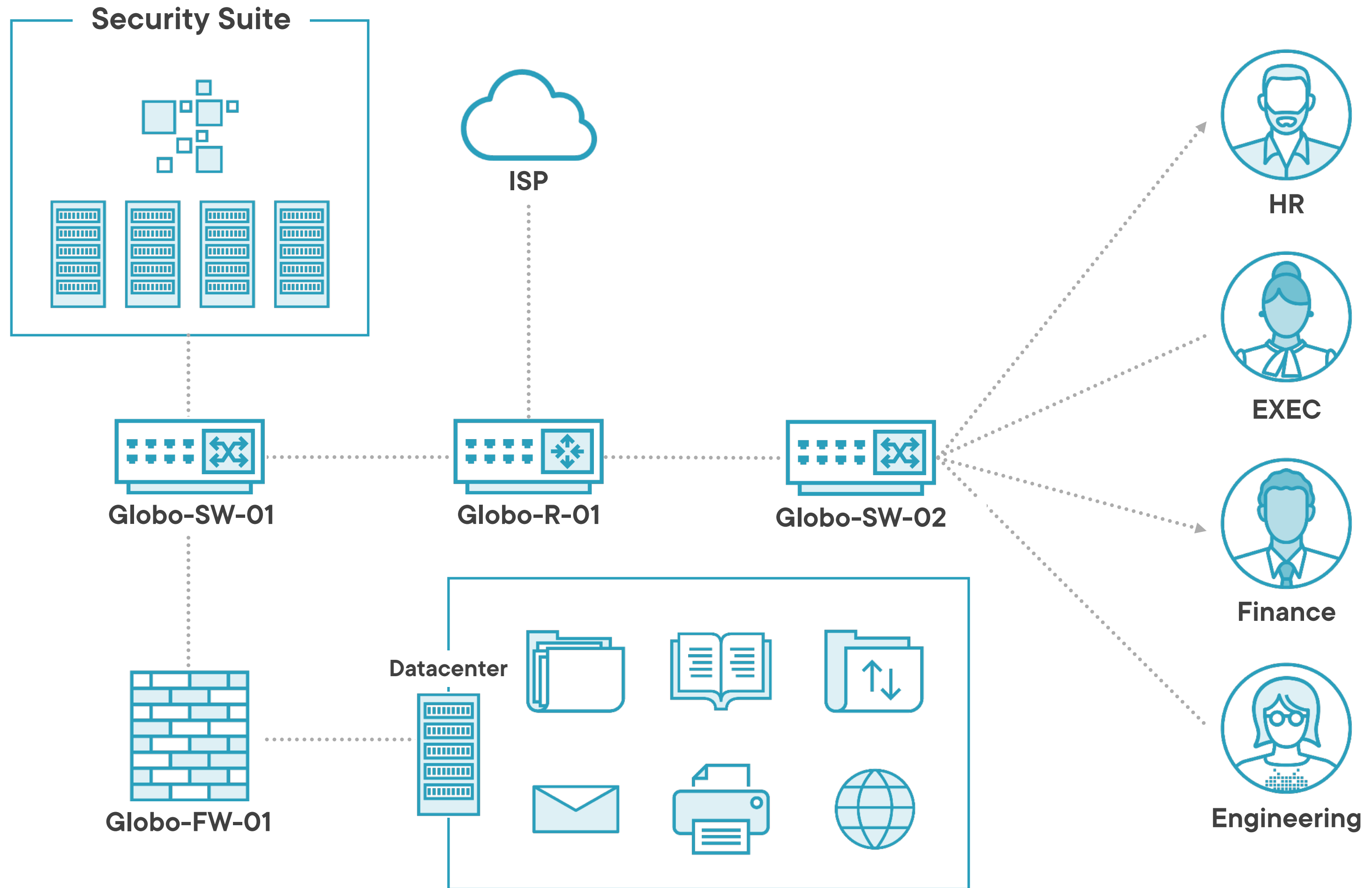
**T1498.001:**

**Service Direct Network  
Flood**

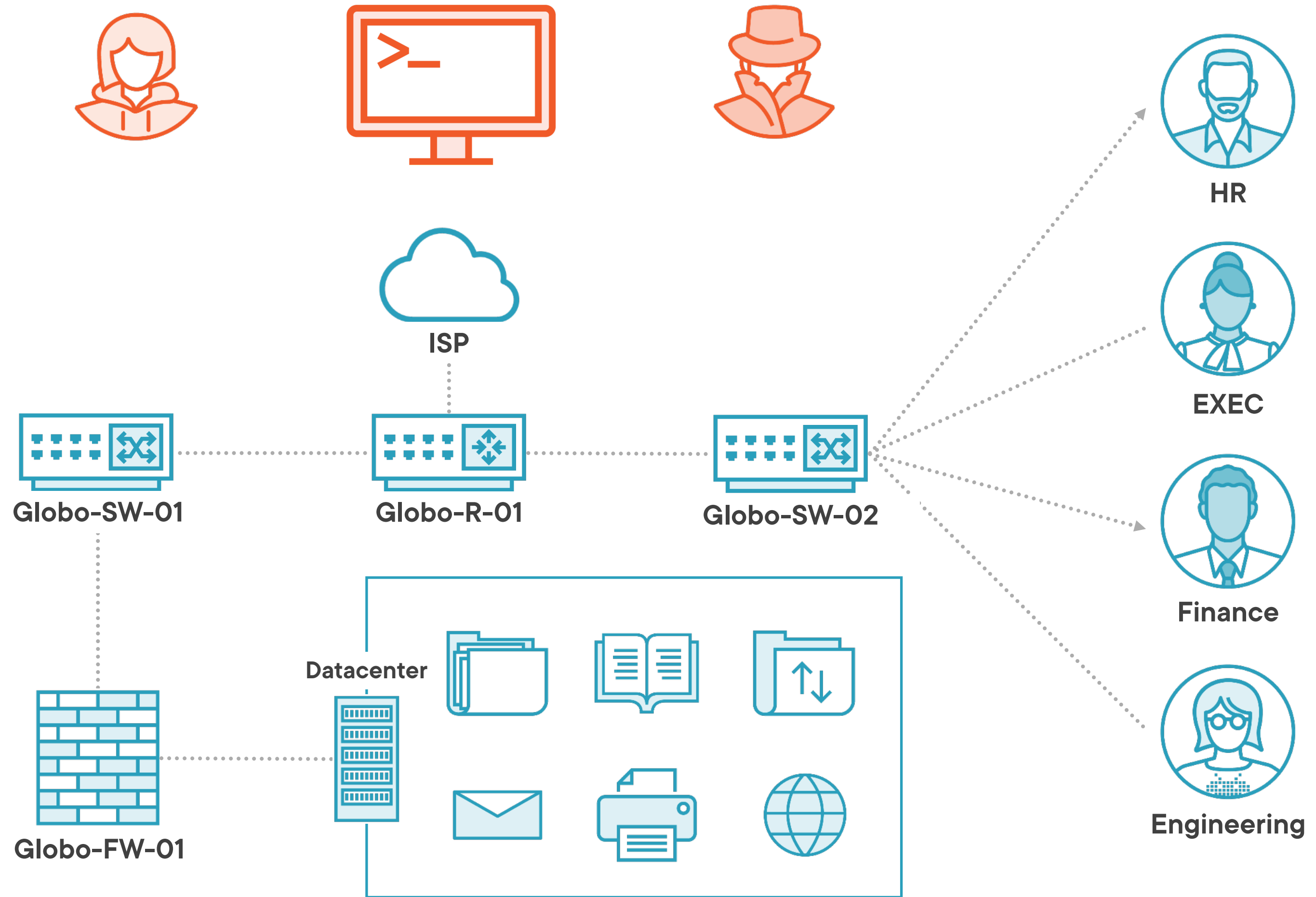
**T1499.002:**

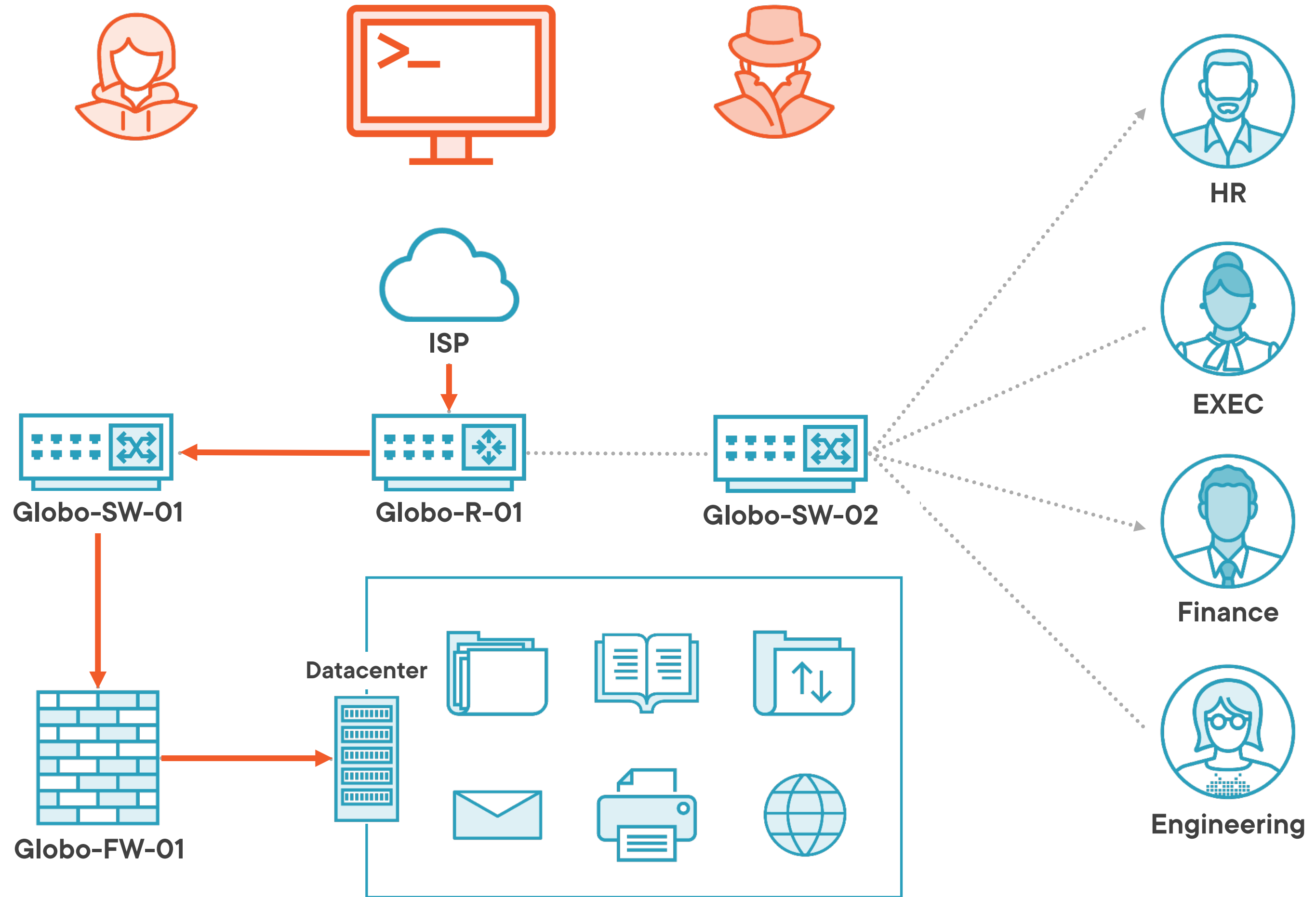
**Service  
Exhaustion Flood**

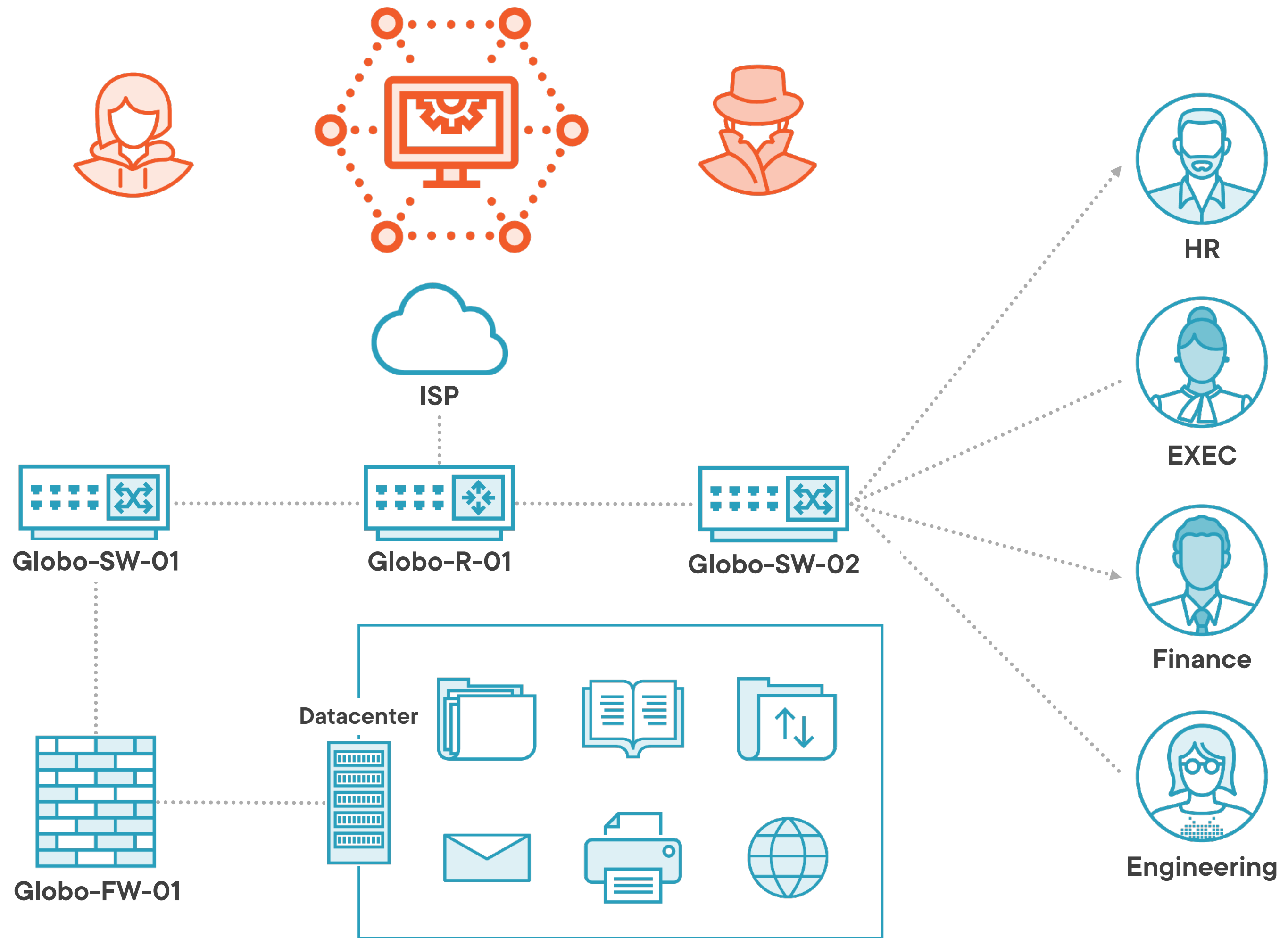


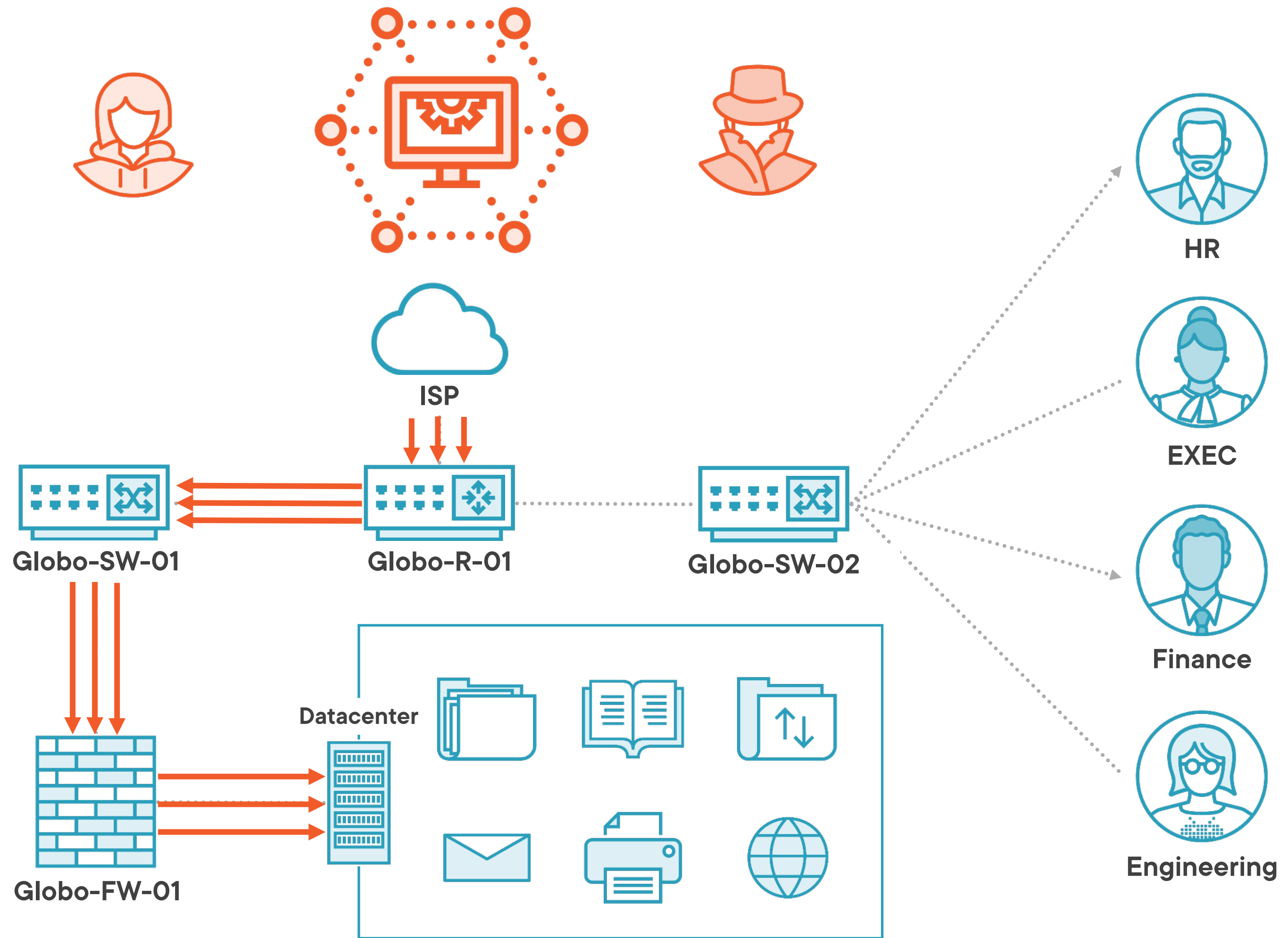












# Demo

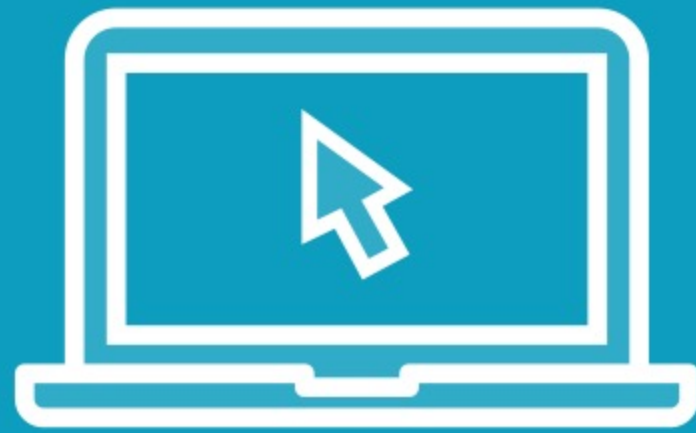


## Getting started with LOIC

- Lab environment
- Exploring the LOIC GUI



# Demo



## Use LOIC to exhaust a service

- Target a single web server using LOIC
- Observe the network traffic on the target

Using these features allows you to simulate an attempted Denial of Service (DoS) attack from a single host



# Demo

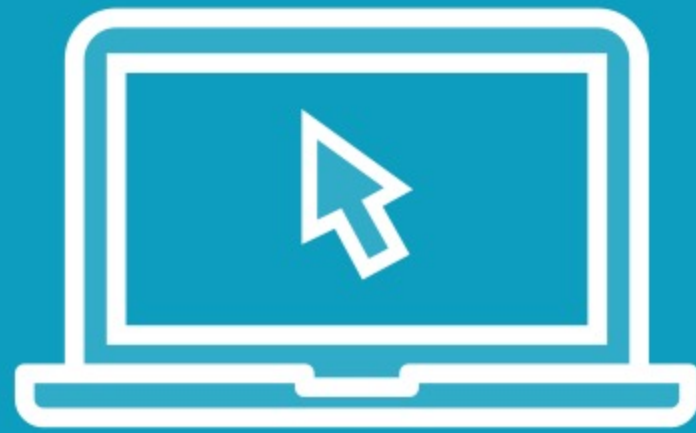


## Exploring the hivemind feature

- Set up an IRC server to control LOIC
- Hivemind feature overview
- Connect multiple LOIC instances to IRC



# Demo



**Use LOIC to flood a network with a distributed attack**

- Use hivemind to execute a network flood
- Execute a simulated Distributed Denial of Service (DDoS) attack using LOIC

**Using these features allows you to simulate an attempted Distributed Denial of Service (DDoS) attack from multiple hosts**





# More Information

Know thy self, know thy enemy. ~ Sun Tzu

## LOIC Capabilities

Running on other operating systems

<https://github.com/NewEraCracker/LOIC/wiki>

## Impact

MITRE ATT&CK Impact TA0040

<https://attack.mitre.org/tactics/TA0040/>

### Types of impact attacks

- Data destruction
- Data encryption
- Data manipulation
- Defacement
- Disk wiping
- Resource hijacking

