

Command and Control with Empire



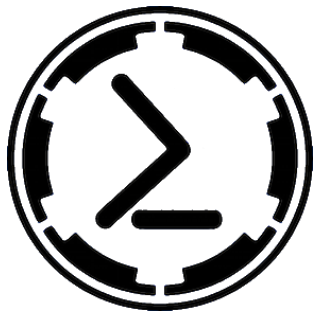
Rishalin Pillay

OFFENSIVE CYBER SECURITY AUTHOR & SPECIALIST

@r1shal1n







PowerShell Empire (PSEmpire) Creator: @harmjoy, @sixdub, @enigma0x3, rvrsh3ll, @killswitch_gui & @xorrior.

<https://github.com/EmpireProject/Empire/>

Empire : Maintained by BC-Security

<https://github.com/BC-SECURITY/Empire/>

Empire 3 is a pure PowerShell post exploitation framework. It merged the previous PowerShell Empire and Python EmPyre projects.



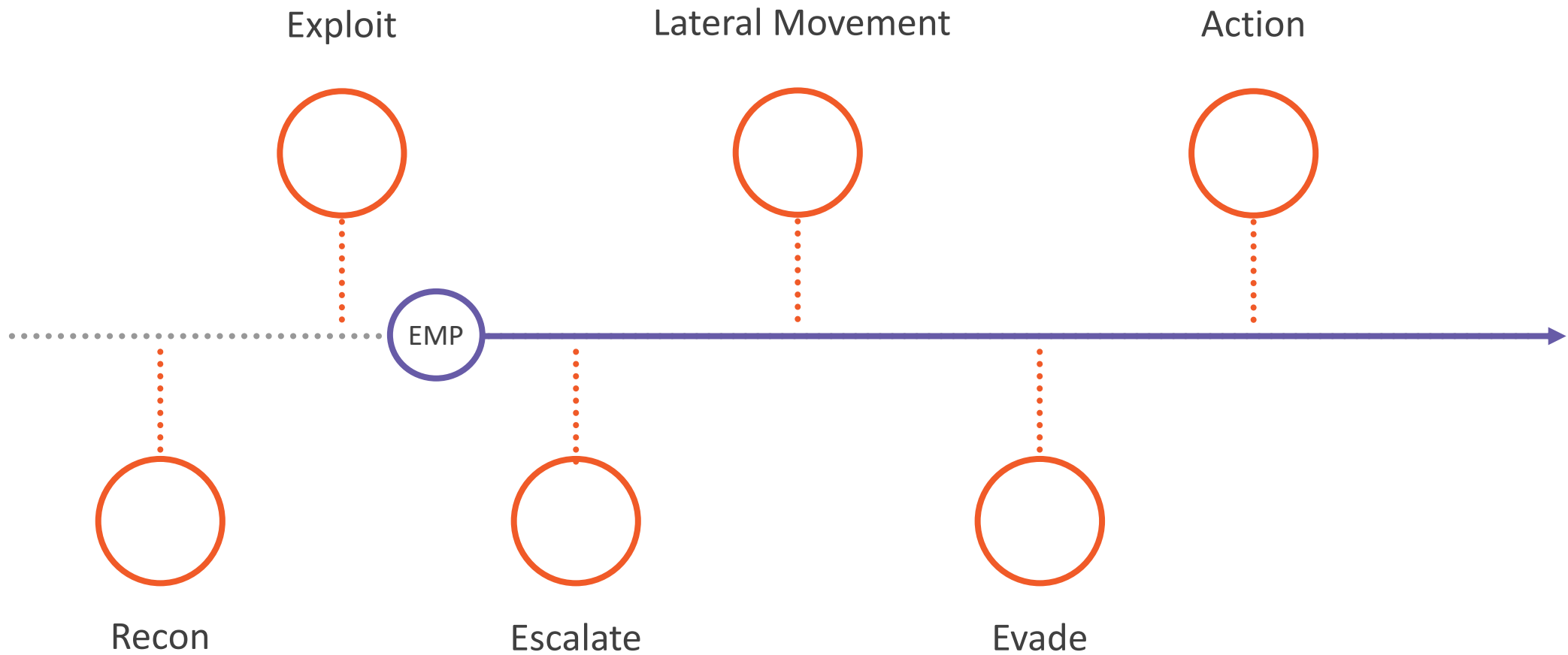


Starkiller Creator: BC-Security
<https://github.com/BC-SECURITY/Starkiller/>

Multi-user GUI for interfacing with the Empire server.



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

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Impact

T1105:

Ingress Tool Transfer

T1219:

Remote Access Software

T1571:

Non-Standard Port

T1090.003:

Proxy: Multi Hop Proxy



Kali Linux 2020.3

Up to date:

`apt-get update`

`apt-get upgrade`



Empire Workflow

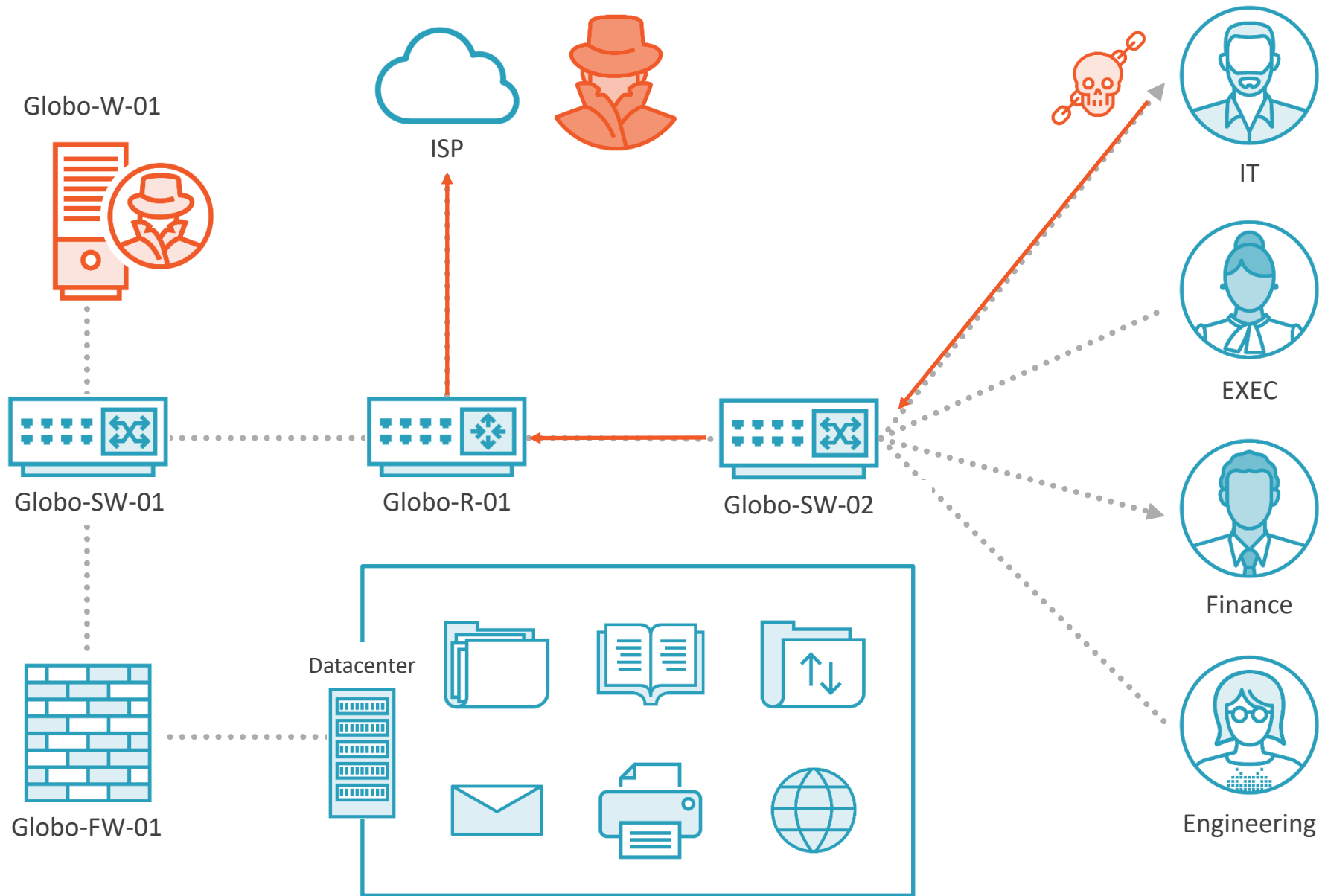
Listeners

Stagers

Agents

Modules



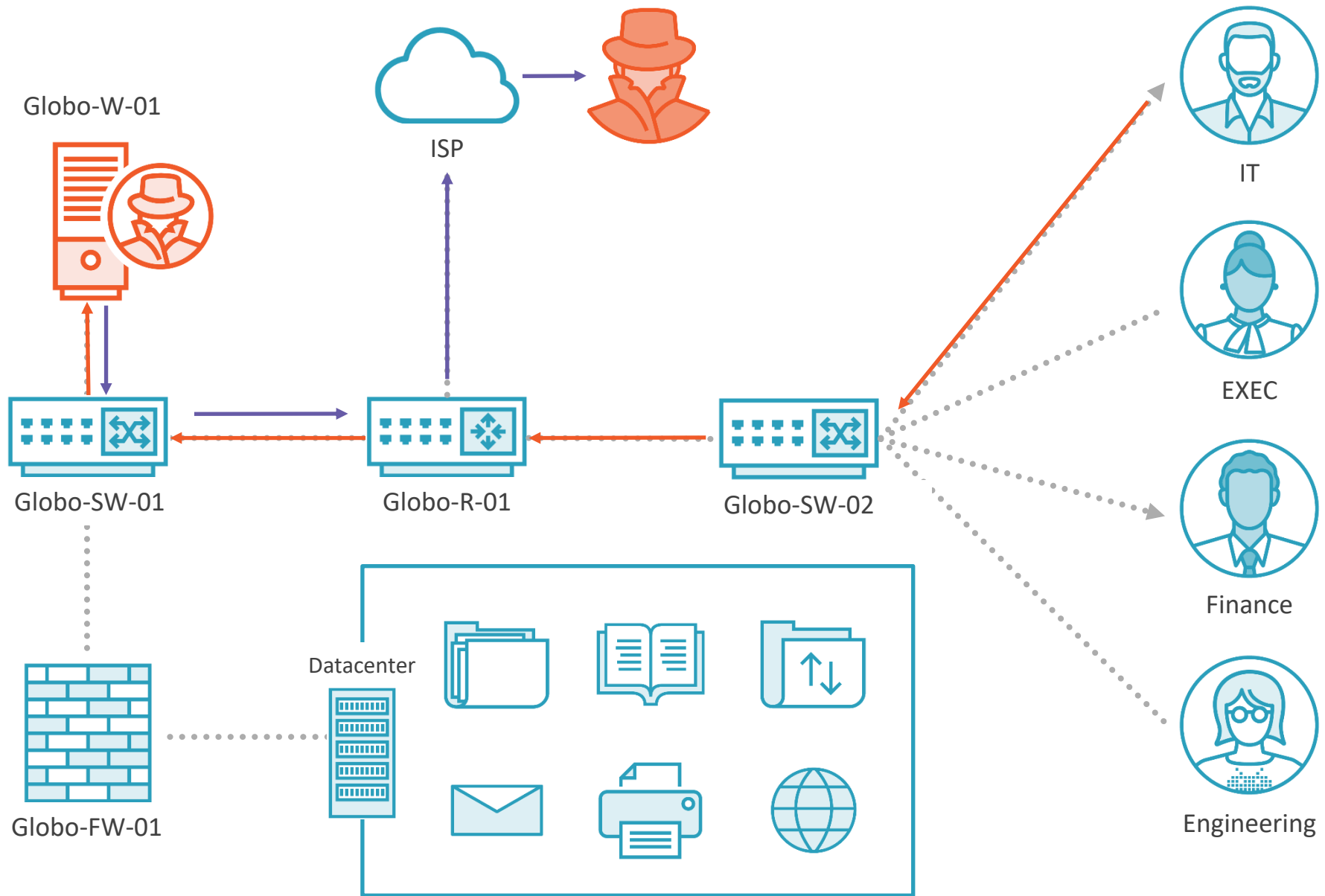


Demo

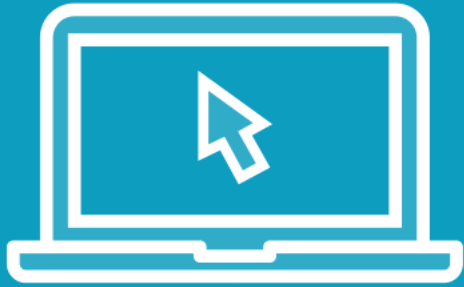


Proxying traffic using `http_hop`



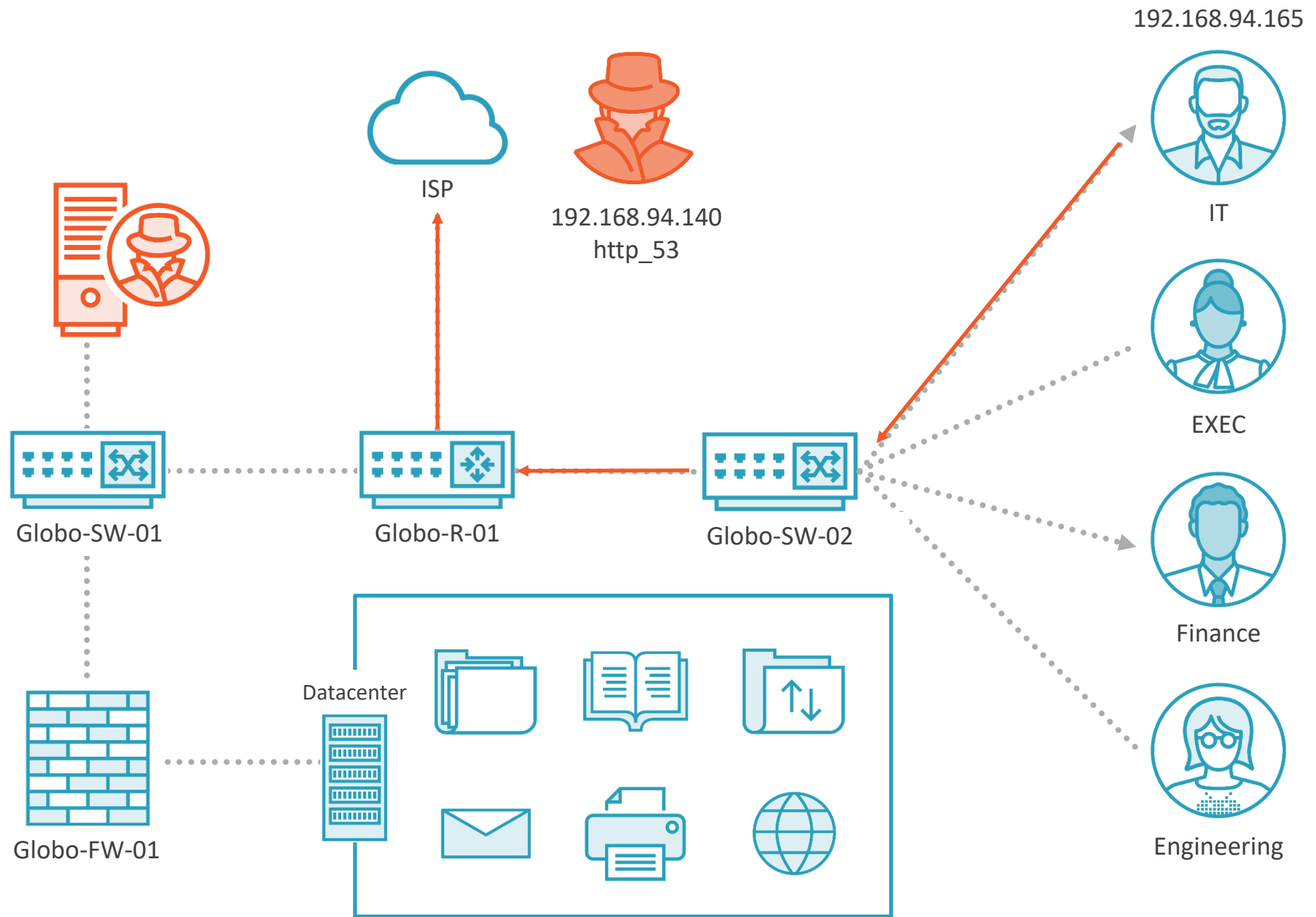


Demo



Non-standard port





Demo



Enable RDP for C2

Upload files



More Information

Documentation

Empire Documentation

<https://www.powershellempire.com/>

Related Information

Persistence with Empire – Pluralsight

MITRE ATT&CK Software Page

- <https://attack.mitre.org/software/S0363/>



Thank you!



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