

# Command and Control with Empire

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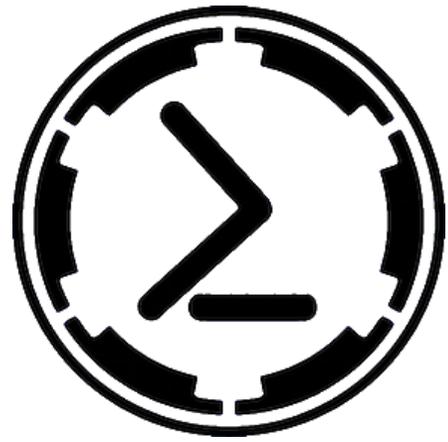


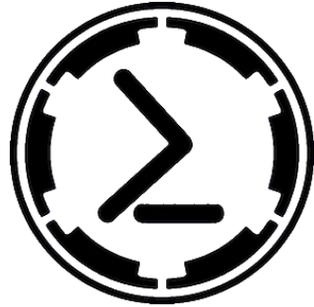
**Rishalin Pillay**

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

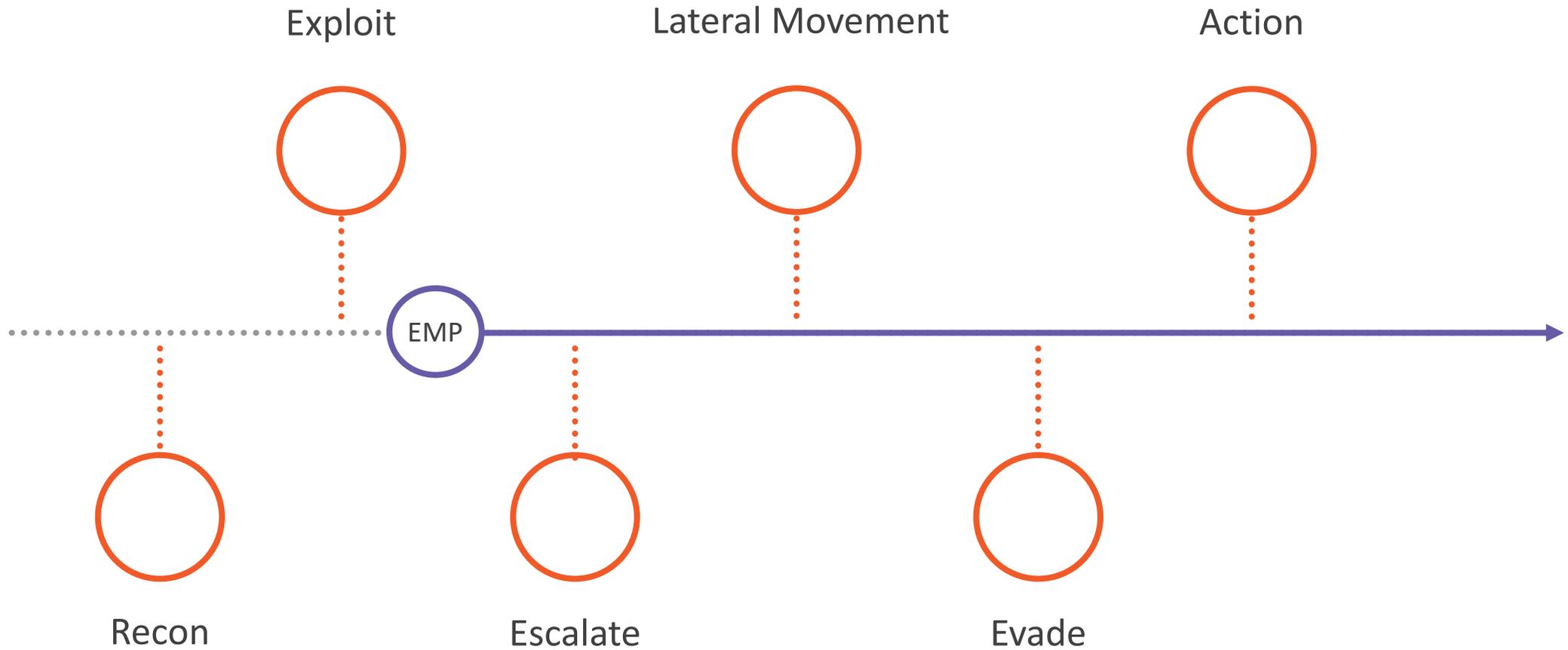
<https://github.com/BC-SECURITY/Starkiller/>



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

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**Command & Control**

Exfiltration

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

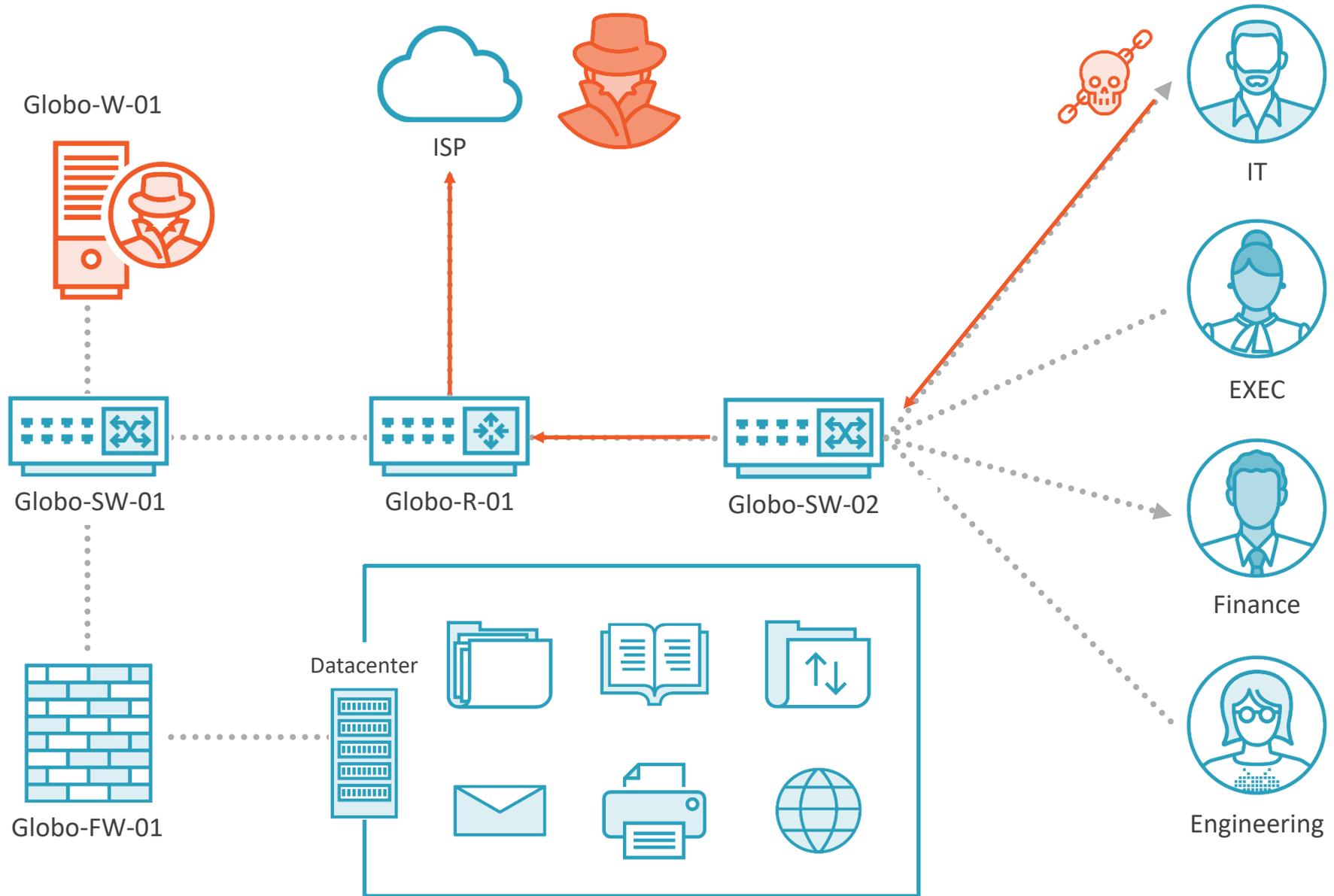
Listeners

Stagers

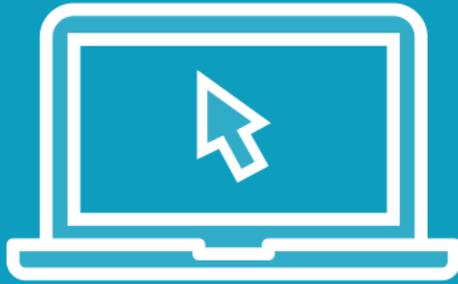
Agents

Modules



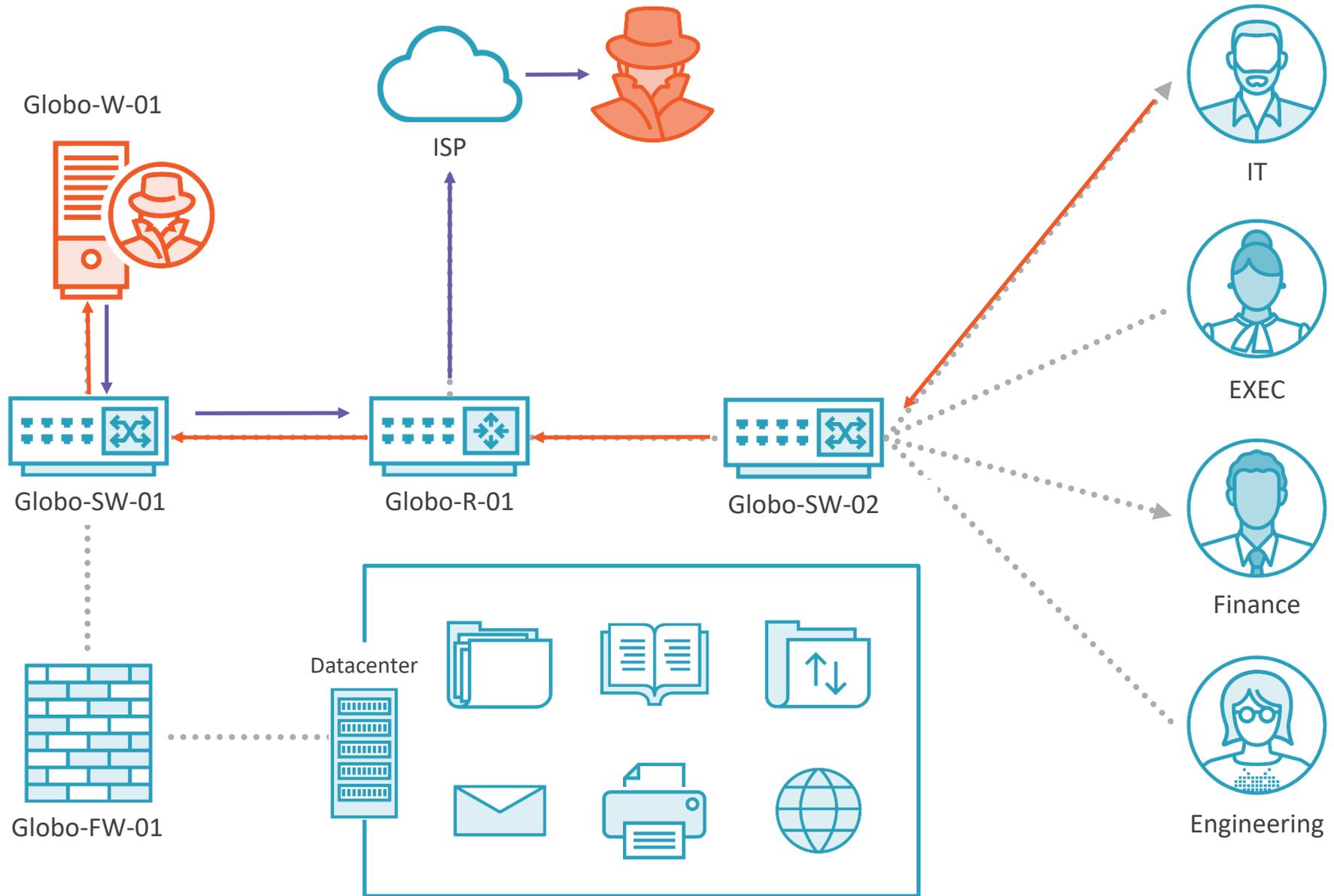


# Demo

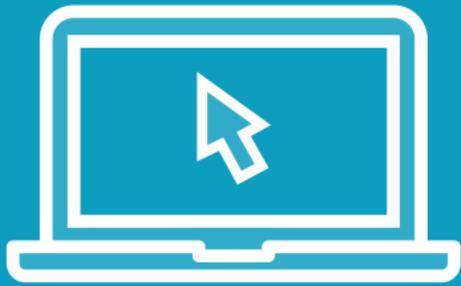


Proxying traffic using `http_hop`



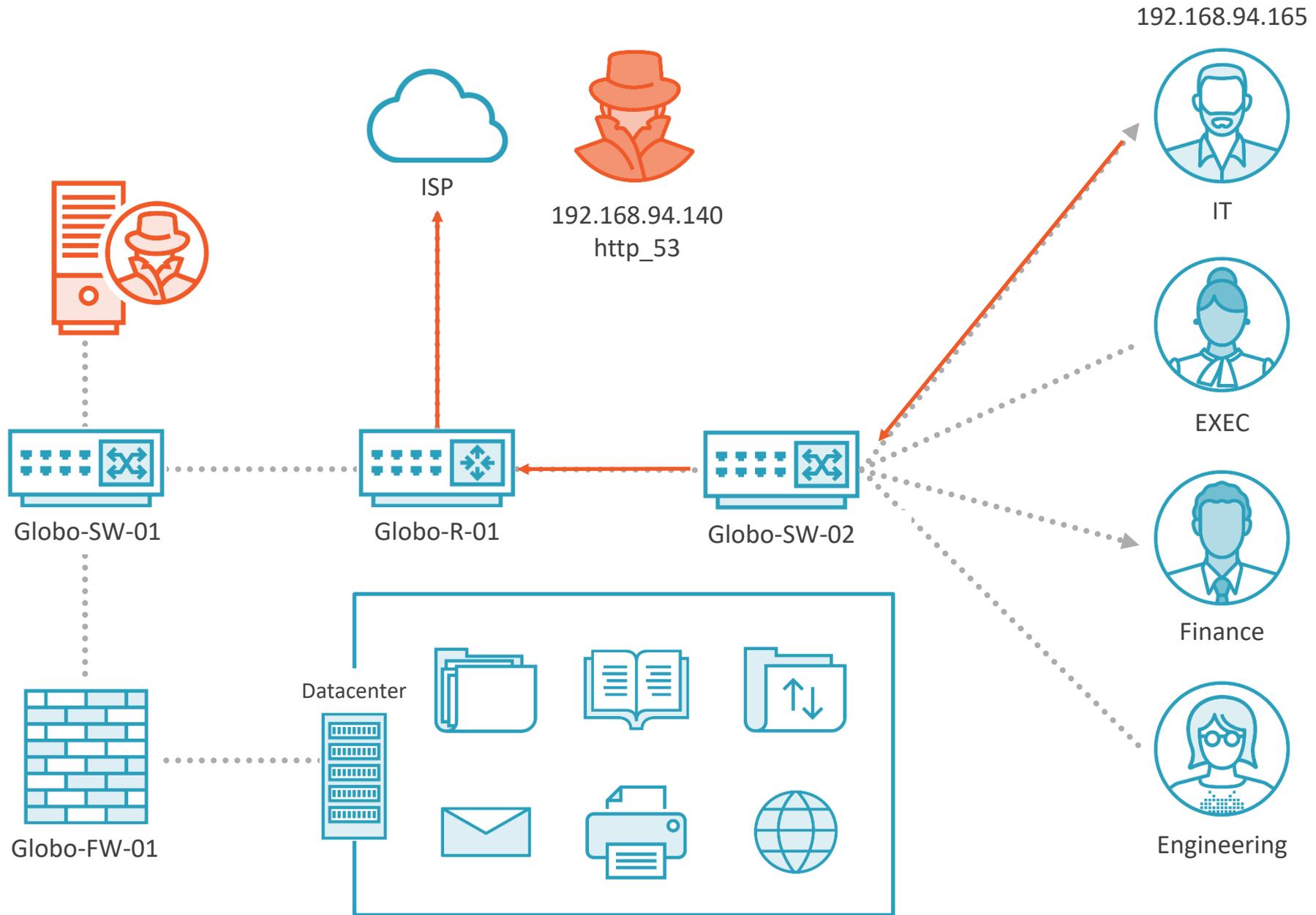


# Demo

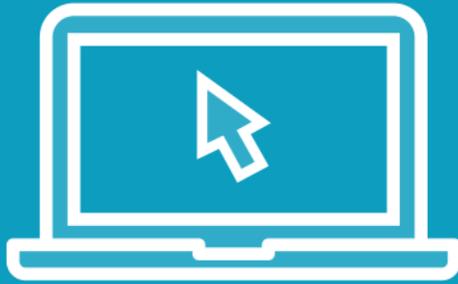


Non-standard port





# 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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