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Cherry Blossom Mobile VPN Software (svn 9012)

Installation and User Guide

For use with CherryTree Server v5.0
(svn 9038)

Based on SRI document SLO-FF-2012-182, revision 1.0

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1.(U) Introduction

(S) Cherry Blossom includes a Mobile VPN capability, wherein the Mobile VPN software can be installed on a server with a publicly-accessible IP address. This server is typically an ICON workstation. *[The SRI-developed Mobile VPN software was developed to run on a workstation booted in Fedora Core 10; COG has requested that it be modified to run on a workstation booted into Ubuntu 10.04.]* This document explains how the SRI/Fedora version of the Mobile VPN server software is installed and operated.

(S) Knowing the IP address of the Mobile VPN server, by interacting with the CherryTree database via a different ICON workstation, a Cherry Blossom operator can task a Flytrap to open a VPN link between the Flytrap and the Mobile VPN server. Through this link, the operator can then access client workstations on the (private) LAN or WLAN side of the Flytrap and perform exploits against the client devices. Additionally, the mission tasked to the Flytrap can instruct the Flytrap to use the Mobile VPN server to proxy all network traffic.

2.(U) Mobile VPN Server Installation

(S) To install the Mobile VPN server software onto an ICON workstation:

- a) Follow standard ICON procedures to boot to the “Fedora Core 10” OS.
- b) Follow standard ICON procedures to connect to the public/outward-facing Snowball/Fireball of choice. Use the “tun” interface option.
- c) Test Internet connectivity
- d) Insert the Mobile VPN Software (svn 9012) CD.
- e) Run the Mobile VPN software installer as root:


```
su -
cd /media/<CDROM> && ./install.sh
```

3.(U) Usage

(S) Typical usage of the Mobile VPN capability is to task a Flytrap with a mission that will perform VPN Link/Prosy actions where the VPN server is the “Mobile” server. This section gives a brief overview on how to plan missions with VPN actions. See the Cherry Blossom User’s Manual for more details.

a. (S) Add the Mobile VPN Server to CherryTree/CherryWeb

(S) Once the Mobile VPN software has been installed on an ICON workstation, determine the public IP address of the workstation (From a command terminal,

issue the command 'ifconfig' and examine the IP address of the 'tun' interface). On your CherryWeb workstation, configure a VPN server address for the Mobile VPN server:

- From the CherryWeb menu pane, click [Plan](#) ->[Exploits](#) ->[VPN Link/Proxy](#)
- On the "Add a VPN Server for 'VPN Link' or 'VPN Proxy All' action" page, enter a name for the Mobile VPN server in the 'Proxy Name' text box, enter the public IP address of the Mobile VPN server in the 'Proxy Address' text box, leave the value '80' in the 'Port' field, and click 'Create'.

b) (S) Plan a Mission with VPN Link/Proxy actions

(S) Now plan a Mission with appropriate VPN Link/Proxy actions and assign it to the Flytrap:

- On the CherryWeb menu pane, click [Plan](#) ->[Missions](#)
- If using a 'Global' VPN action (Global VPN Link or VPN Proxy All), select this action in the 'Global Action' combo box of the 'Support Parameters' step of the Mission workflow. In the 'VPN Server IP' combo box, select the newly added Mobile VPN server. Select a 'VPN Action Timer' if appropriate. Click 'Next' when done.
- If using 'Target' VPN actions (i.e., the VPN action is to be triggered by the detection of a target), select the appropriate VPN action and timeout for the target(s) of interest on the 'Target Exploit/Action(s)' page of the Mission workflow.
- When you are finished planning the Mission, click 'Assign ->Mission to Flytraps' link on the CherryWeb menu pane. Select the Mission just planned, check the desired Flytrap(s), and click 'Assign'.

(S) New for Cherry Blossom v5.0 is the ability to add/edit Target actions directly to Target Decks. In this case:

- On the CherryWeb menu pane, click [Plan](#) ->[Target Decks](#)
- Under 'Edit a Target Deck', select the Target Deck of interest
- On the 'Target Action/Exploit Assignment' step of the workflow, select the appropriate VPN action and timeout for the Target(s) of interest. Then, at the bottom of the Target list, select the newly added Mobile VPN server.
- Click the 'Apply Actions' button.

Note that when a Target Deck is edited, any Missions containing the Target Deck are automatically revised and the new revision is automatically assigned to any Flytraps currently executing that Mission.

4.(U) Caveats

(S) If the network interface of the Mobile VPN ICON workstation is modified after the Mobile VPN server software is installed, or if the Mobile VPN software is installed before the network interface has been configured, the workstation will need to be rebooted and the server software reinstalled.