

Motivation and Study Techniques to help you learn, remember, and pass your technical exams!

**MindCert**  
UTILISE THE POWER OF YOUR MIND

Visit us [www.mindcert.com](http://www.mindcert.com)

Cisco  
CISSP  
CEH  
More coming soon...

# Jasager Karma on the fon Jasager with BackTrack 4

**fon** Jasager

**?** Introduction

**Step 1 - Providing Internet Access**

**Step 2 - Fon/Jasager Configuration**

**Step 3 - Laptop Configuration**

**😊 Cool things to do**

**Karma on the Fon**  
Allows Man in the Middle attacks for WiFi  
Responds to all wireless probes

MAC Address  
Web interface  
IP Address  
Connected SSID

Auto Run Scripts  
Full logging

This Mind Map takes you through connecting a Fon to a BackTrack 4 laptop to perform Man In the Middle Attacks

We are using an EeePC 900 and a Three USB 3G Dongle. The EeePC is built with BackTrack 4 Final

We presume that your Fon is already built with Jasager

Jasager Build Documents

Connect the Computer port of your Fon to the Ethernet port of your Laptop

When you see this icon, a command is being shown

**Step 1**

1st Step is to ensure an Internet connection can be established from the laptop that the Fon is connected to

This connection will be used by the clients that connect to the Fon for transit internet access

This provides a seamless experience for connected clients

3G USB Dongle

wvdial Configuration

wvdial three

three is the name of the connection entry I use

This connects you to the 3G network using the 3G USB Dongle

3G MIFI

Connect to your Wifi in the usual manner

wpa\_supplicant -Dwext -i wlan0 -c /etc/wpa\_supplicant/wpa\_supplicant.conf

dhclient wlan0

**Step 2**

2nd Step is to configure the Fon to enable Bridging the Ethernet and Wifi networks

This enables connected clients to access services such as DHCPD from the laptop

Default IP Address of the Fon running Jasager 192.168.1.1

telnet 192.168.1.1

passwd

ssh 192.168.1.1 -l root

vim /etc/config/network

reboot

ssh 192.168.2.1 -l root

brctl show

brctl addif br-lan ath0

brctl show

You have now configured an excellent Man in the Middle tool for your lab

Connected clients are routed through your BackTrack laptop

You have to SSH back to the Fon and recreate the bridge

Start the DHCP Server

Enable IP Forwarding

Enable NAT

You have to Laptop

What happens on reboot?

You can always script these to autostart if you so wish

BackTrack has a great collection of tools to play with once you are in the middle

Capture all packets from the clients

See the MindCert Wireshark Mind Map

Tool that displays all images via HTTP that are seen from the clients

Driftnet

Etherape

Display the connections and protocols

Uses a Sniffer Pro like Eye view of the traffic

Can filter based on traffic

Helps identify the top talkers

3rd Step is to configure the Laptop to act as a DHCP server

IP Forwarding and NAT also have to be configured in order to route the connected clients through the correct outbound interface

You have to set the IP address of the Eth0 interface to be on the same subnet as the Fon

The Fon is 192.168.2.1

Set the Laptop IP Address

ifconfig eth0 192.168.2.2

So we will use 192.168.2.2

vim /etc/dhcp3/dhcpd.conf

option domain-name "wirelessaccess.org";

Set the domain name to be issued

Set the domain to wirelesssecurity.org

option domain-name-servers 192.168.1.10;

Set the Nameserver to be used

Uses 192.168.1.10 as the issued DNS server

Change to your DNS server of choice

Configure the range of addresses to be issued by the DHCP server

Set this in the same subnet as the Fon IP Address

subnet 192.168.2.0 netmask 255.255.255.0 {

range 192.168.2.10 192.168.2.50;

option routers 192.168.2.2;

Declare the subnet

This configures 192.168.2.10 to 192.168.2.50 as the DHCP Server range

The Ethernet IP address of the Laptop

The client default gateway will be set to 192.168.2.2

/etc/init.d/dhcp3-server start

Start the DHCP Server

IP forwarding enables the passing of packets from one interface to another based on the routing table

By default IP forwarding is disabled

Enable IP forwarding

echo 1 > /proc/sys/net/ipv4/ip\_forward

This enables IP Forwarding

Network Address Translation has to be used to enable the private address of the client be NAT'd to the public address of the 3G or WiFi connection

The 3G Connection uses the ppp0 interface as the outbound interface

3G Connection

iptables -t nat -A POSTROUTING -o ppp0 -j MASQUERADE

Enable NAT

The WiFi connection uses the wlan0 interface as the outbound interface

WiFi Connection

iptables -t nat -A POSTROUTING -o wlan0 -j MASQUERADE