CLOSE ACCESS

Introduction to BADDECISION

December 15-16, 2010

[redacted]

Classification

The overall classification of this presentation is

TOP SECRET//COMINT//NOFORN

All slides and materiels contained in this presentation should be considered classified TS//SI//NF

(unless otherwise noted)

Section Overview

- BADDECISION Overview
- BADDECISION Components
- BADDECISION Prerequisites
- BADDECISION Operational Flow
- BADDECISION Step Through
- Instructor-led Demos and Labs
- BADDECISION Pros / Cons

At The End…

You should be able to….

- Understand BADDECISION Components
- Understand the BADDECISION Prereqs.
- Conduct a BADDECISION Operation.
- List the Pros / Cons of NIGHTSTAND.

BADDECISION Overview

- BADDECISION is an "802.11 CNE tool that uses a true man-in-the-middle attack and a frame injection technique to redirect a target client to a FOXACID server."
- Takes advantage of shared open medium and the HTTP protocol.
- Works for WPA / WPA2!

BADDECISION Prerequisites

- **Working BLINDDATE Survey!**

- **Client on the Target network**
- **Security Level: WPA / WPA2**
- **Ability to maintain a reliable connection to a target network.**

- **Don’t forget FOXACID Tag!**

BADDECISION Components

- HAPPYHOUR
- SECONDDATE
- Open Sources Tools
  - macchanger
  - wireshark
  - nmap
  - ettercap

BADDECISION
Preparation

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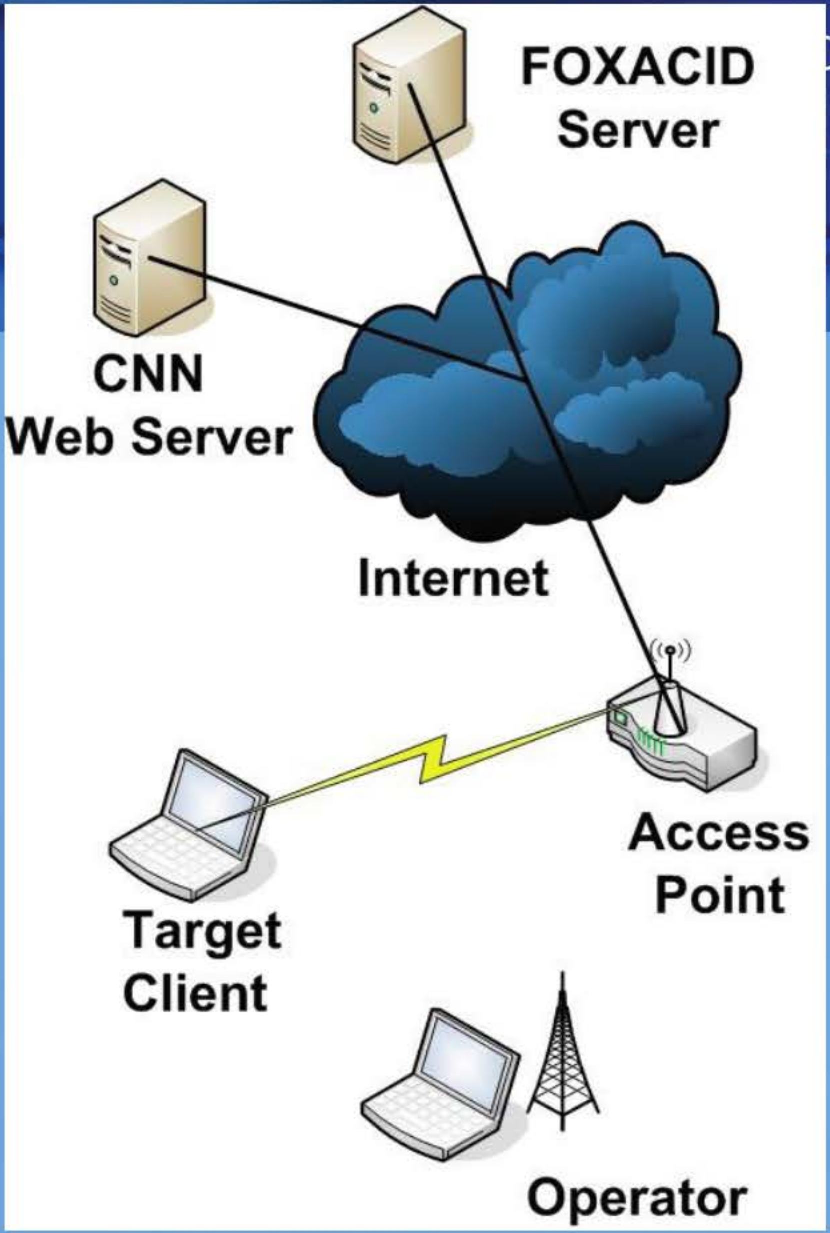

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BADDECISION
Preparation

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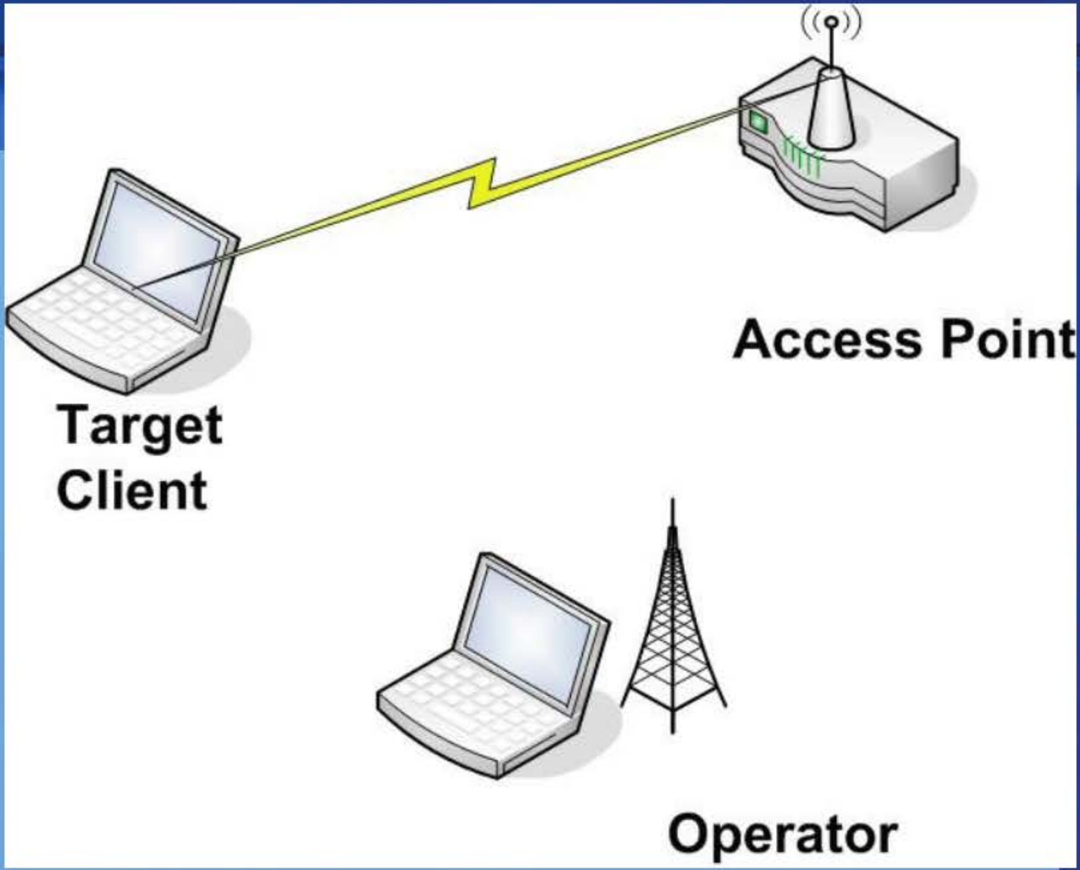

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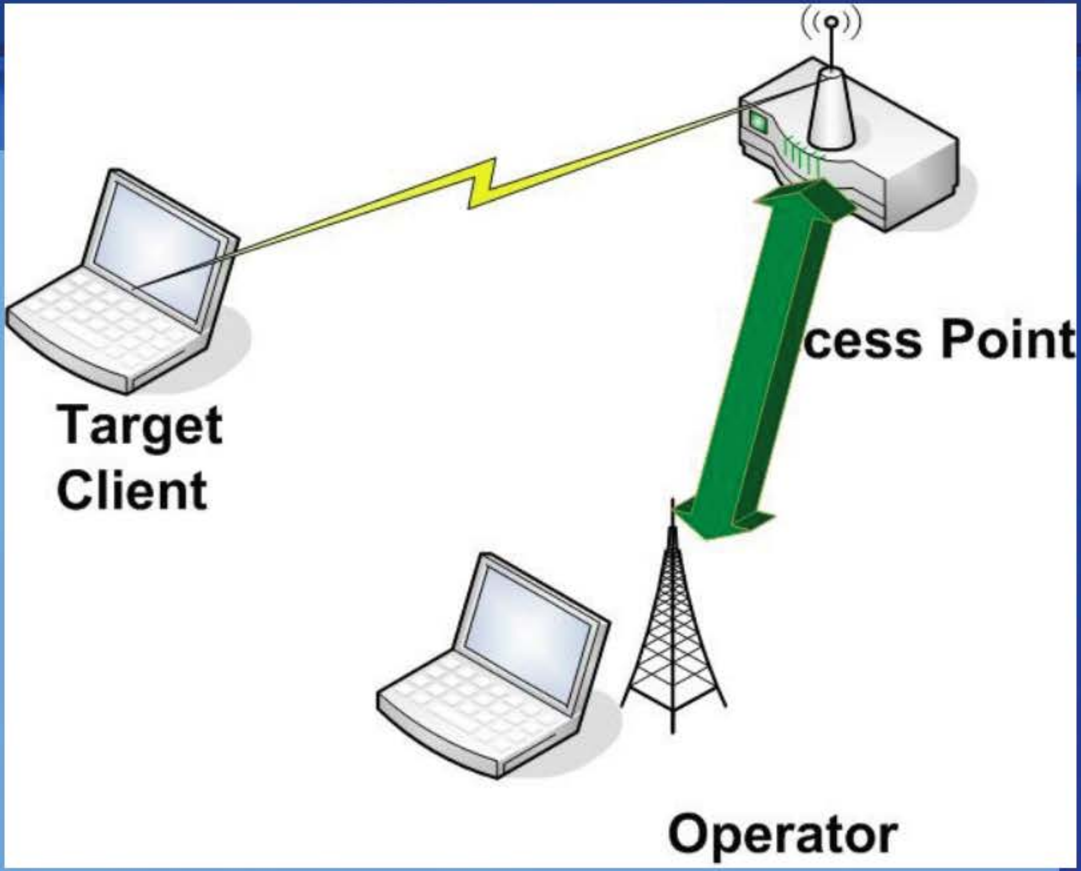

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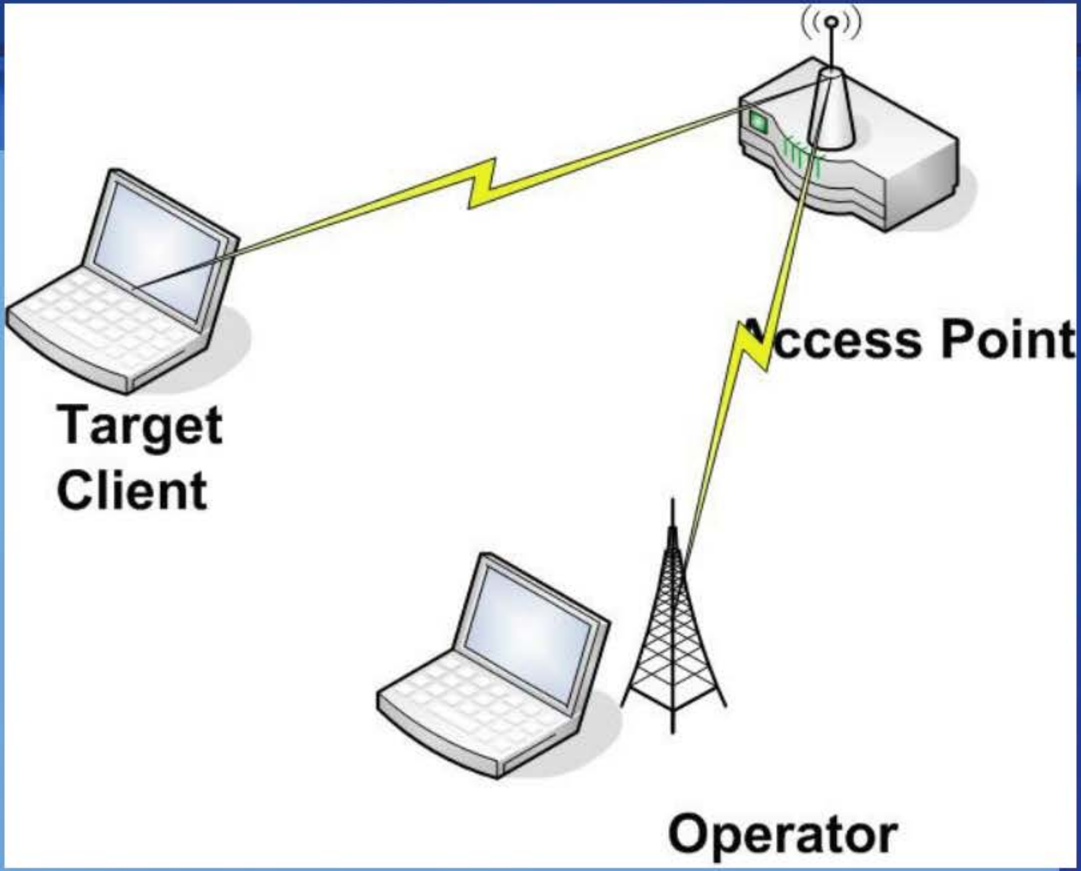

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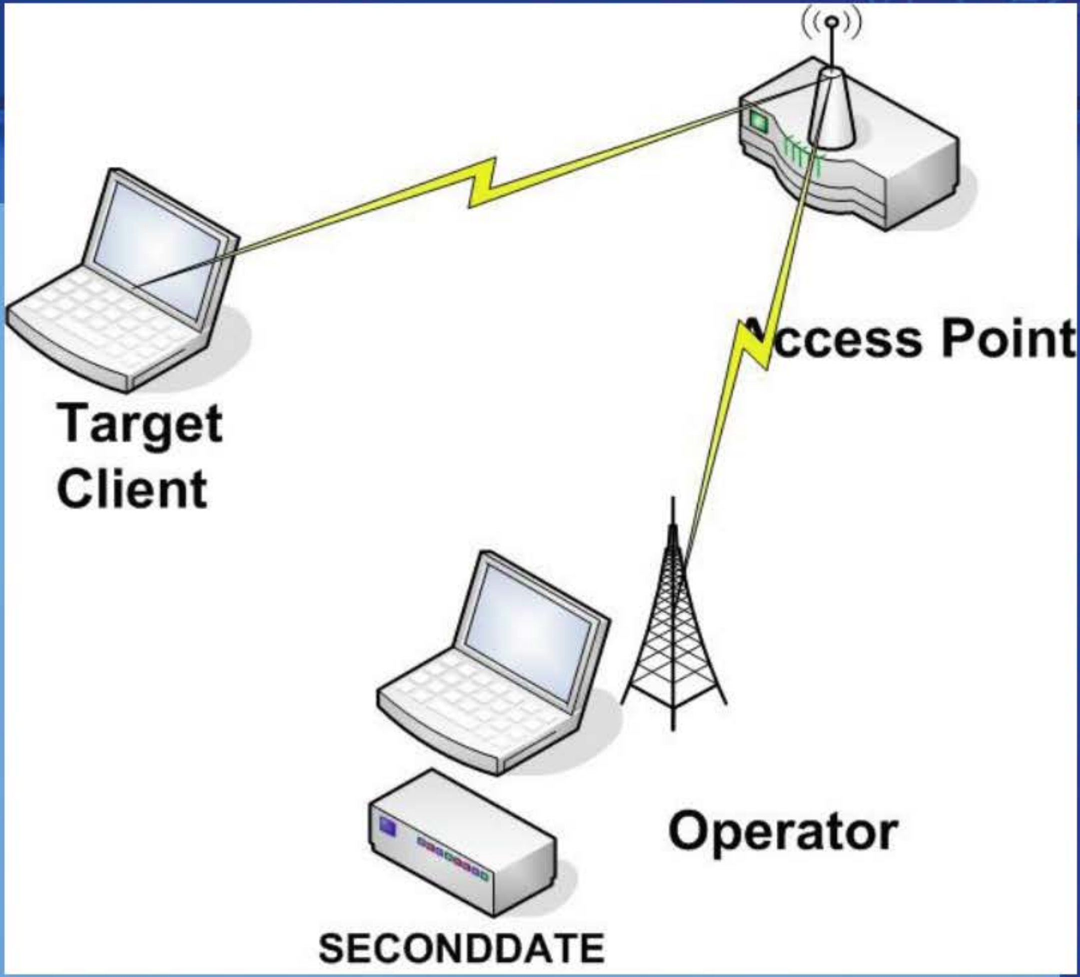

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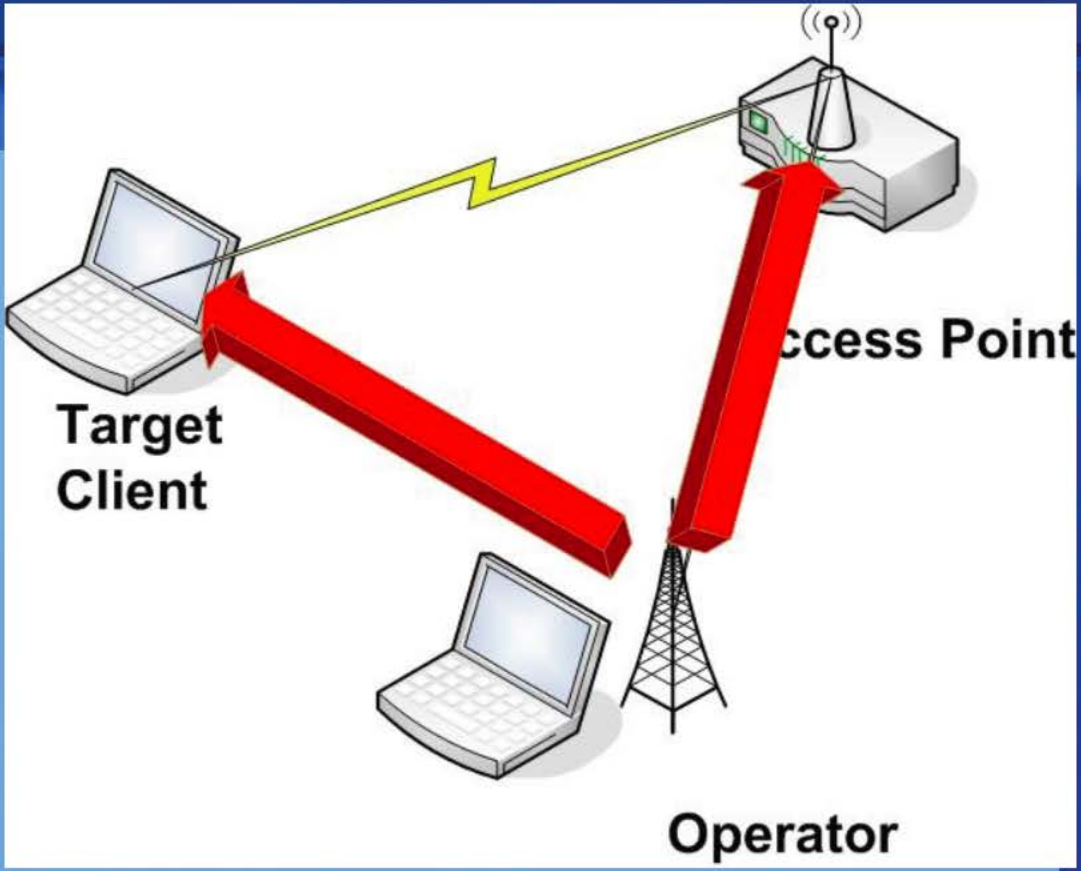

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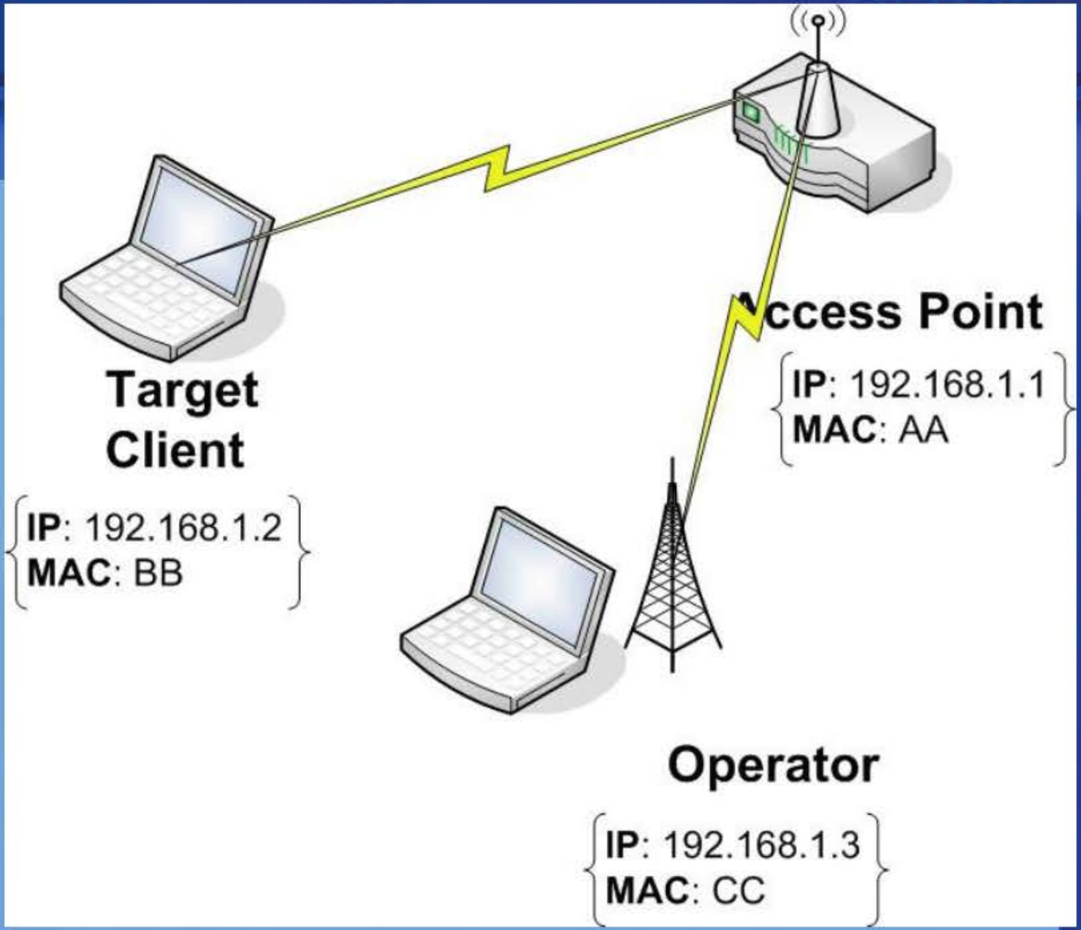

Access Point

IP: 192.168.1.1
MAC: AA

Target Client

IP: 192.168.1.2
MAC: BB

Operator

IP: 192.168.1.3
MAC: CC

BADDECISION
Preparation

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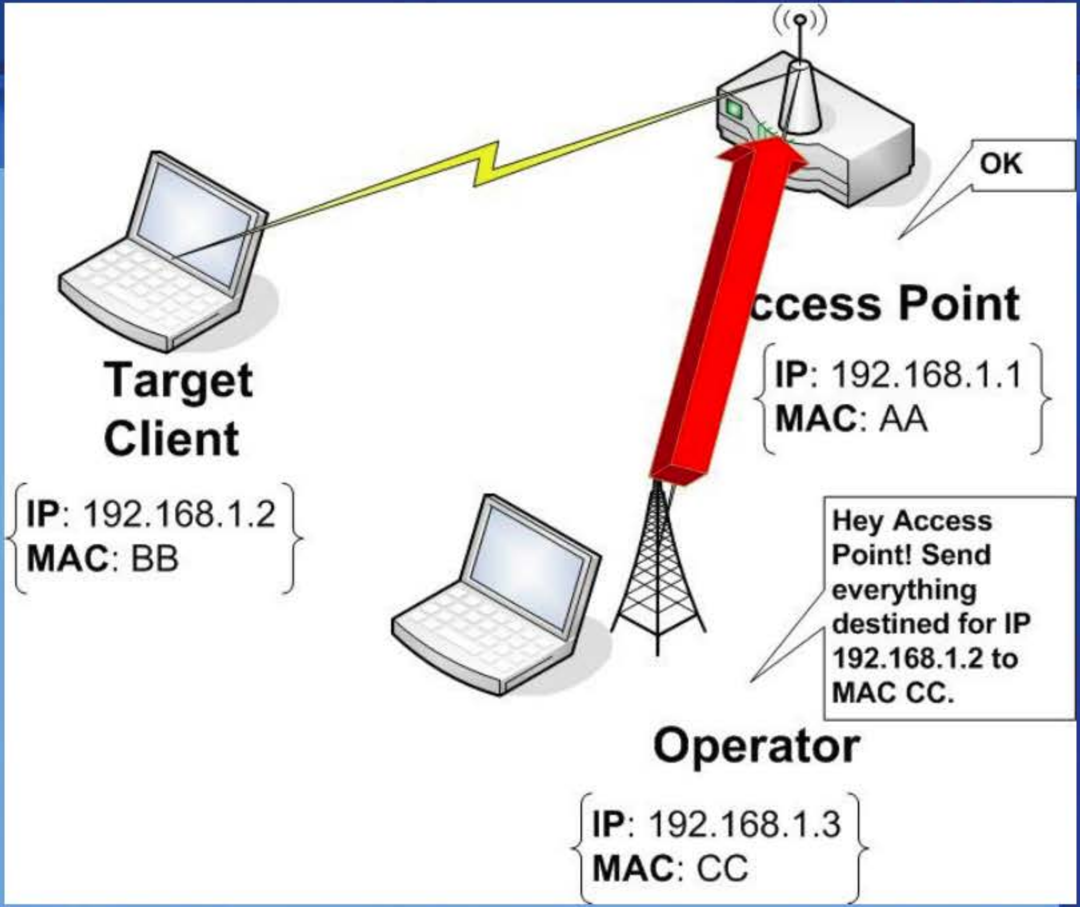

OK

ccess Point

IP: 192.168.1.1
MAC: AA

Target Client

IP: 192.168.1.2
MAC: BB

Hey Access Point! Send everything destined for IP 192.168.1.2 to MAC CC.

Operator

IP: 192.168.1.3
MAC: CC

BADDECISION
Preparation

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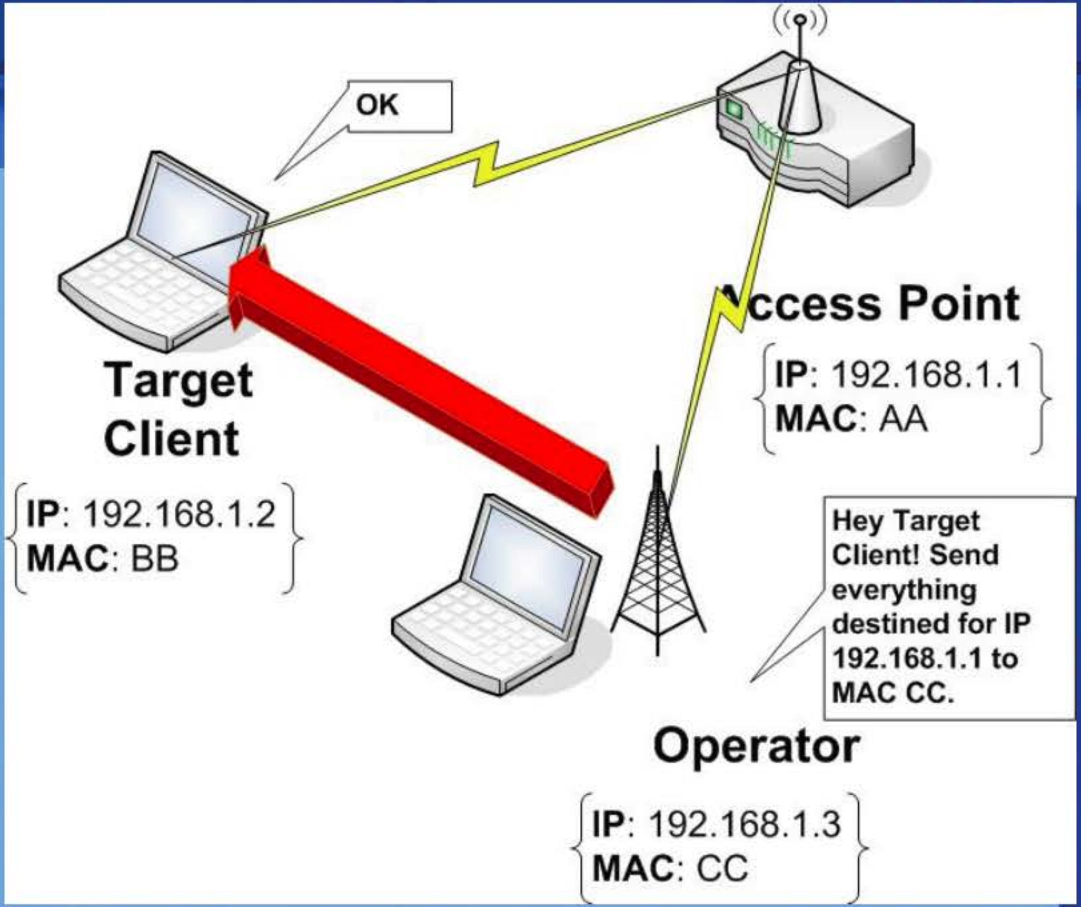

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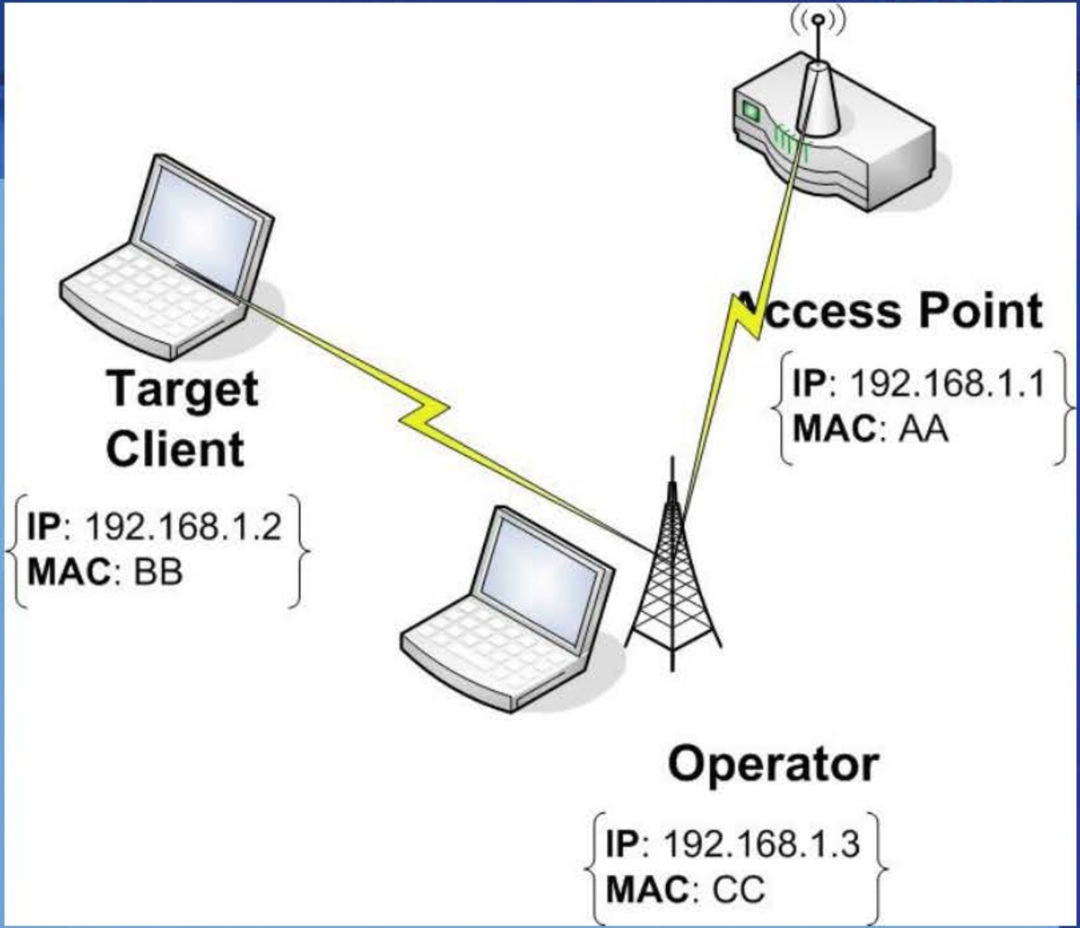

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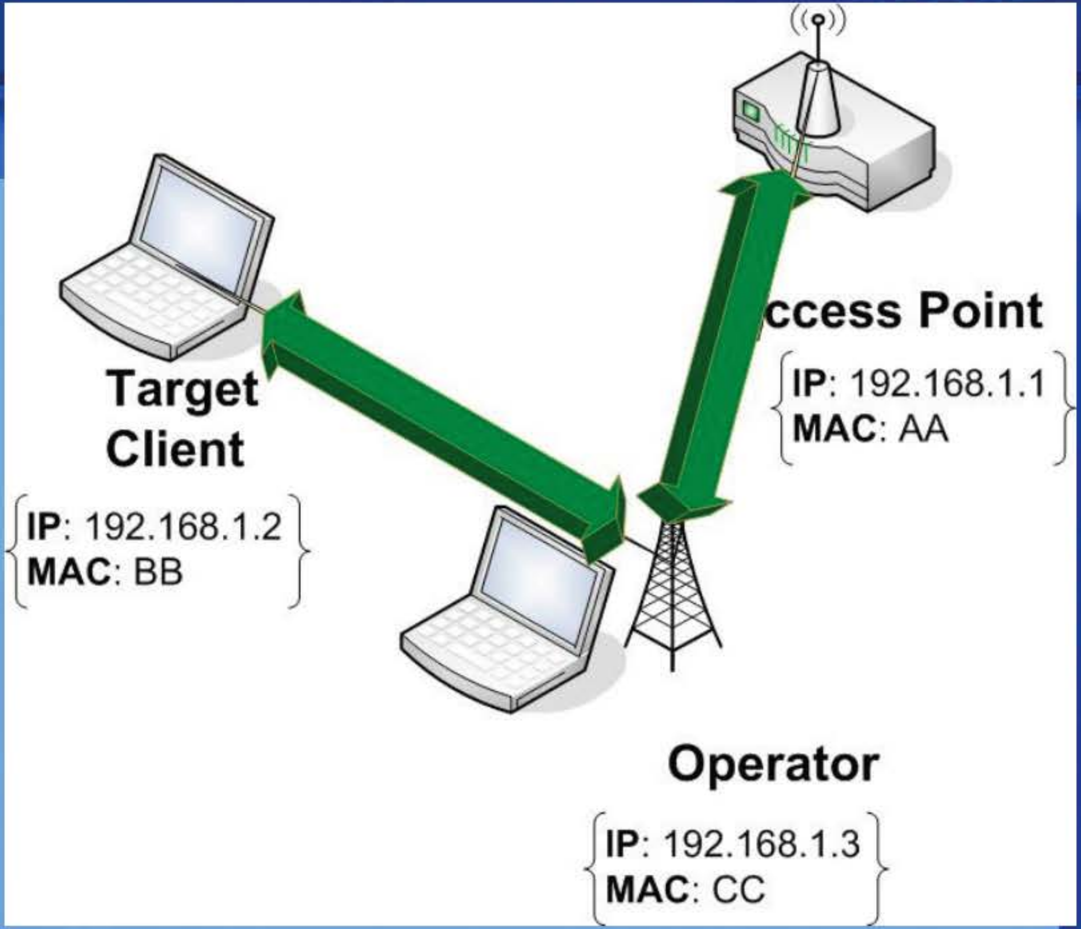
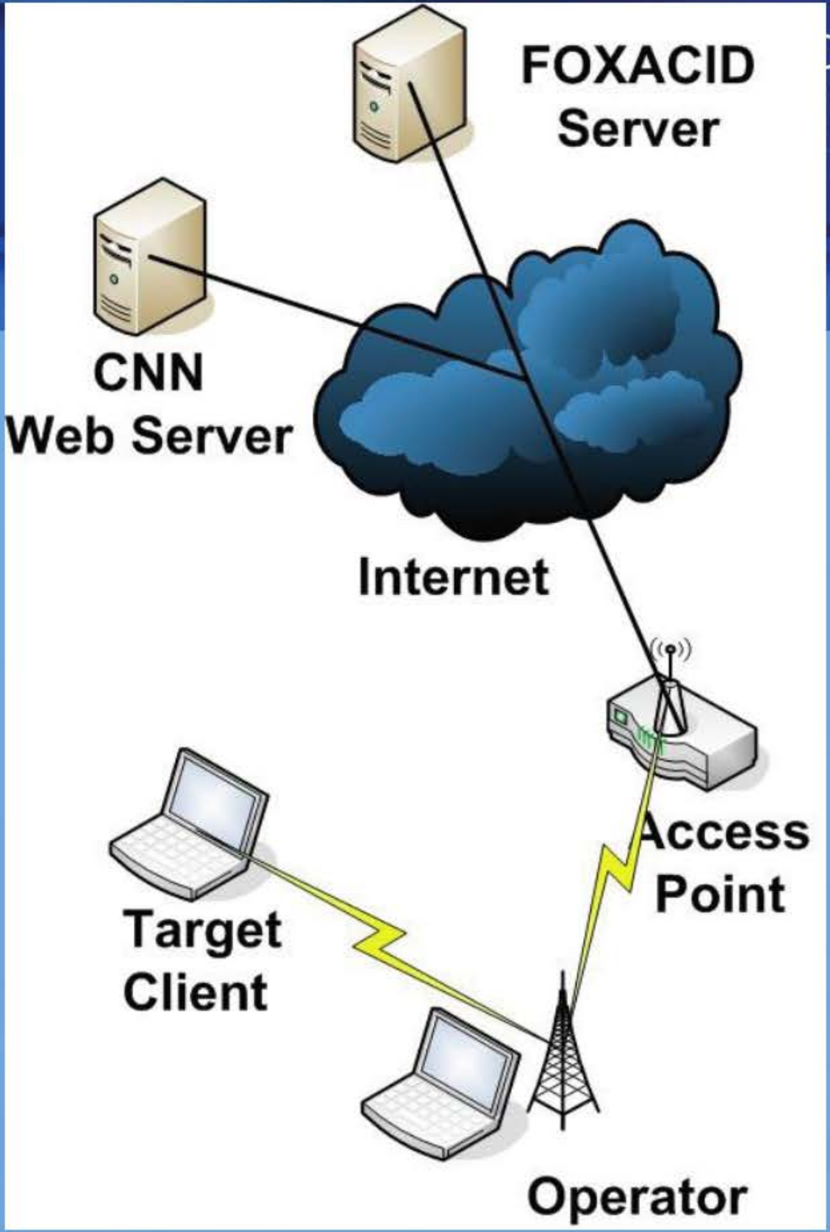


Overview of Operational Scenario

➢ Operator with BLINDDATE System.

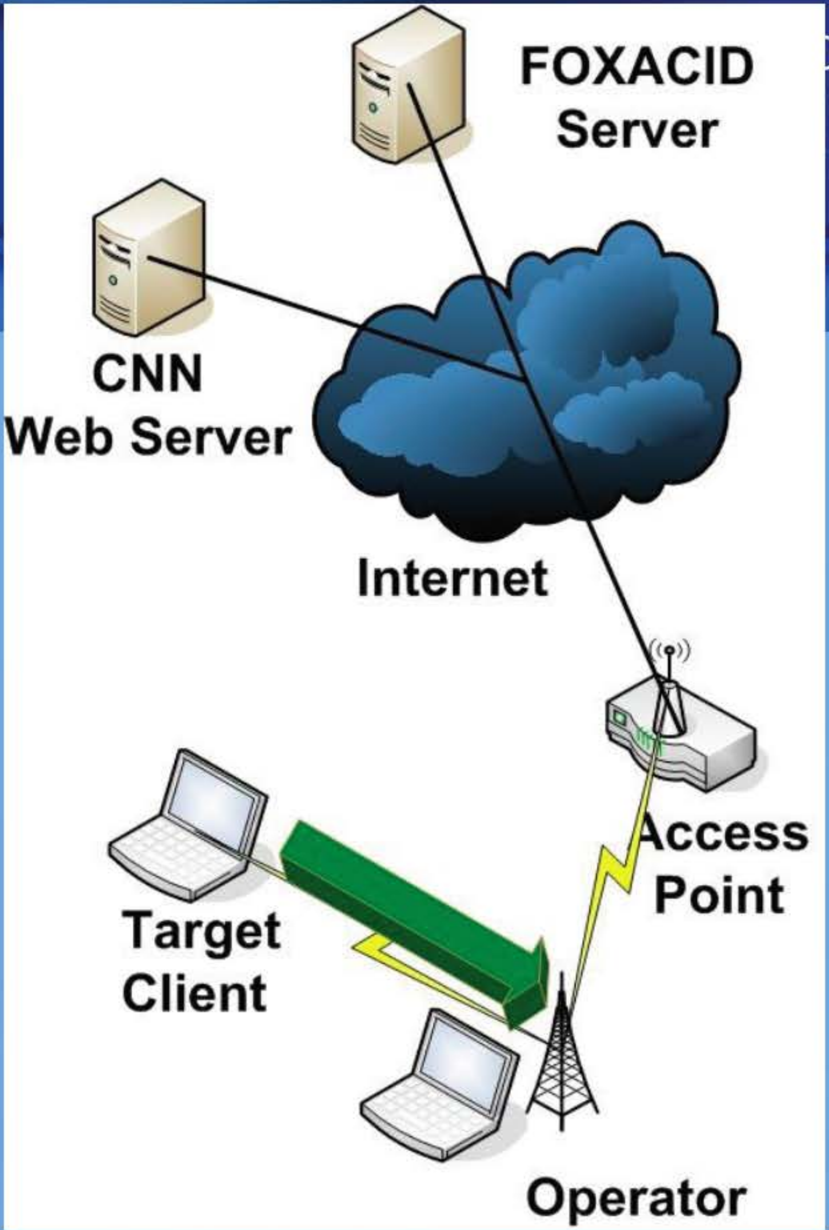
➢ FOXACID Tag issued for Target.

➢ Target Client browsing the Internet via web browser ☺



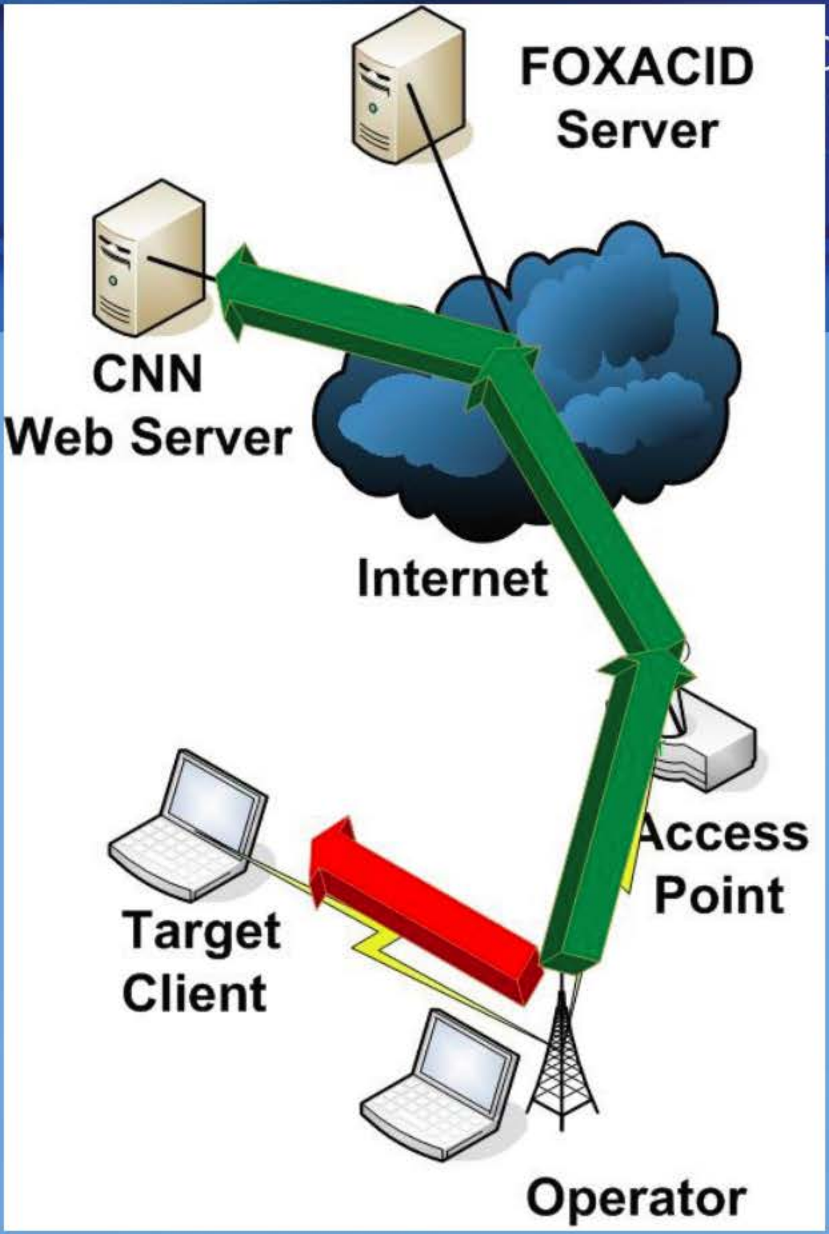
Webpage Request

- Target issues HTTP GET Request to webpage of interest (cnn.com)



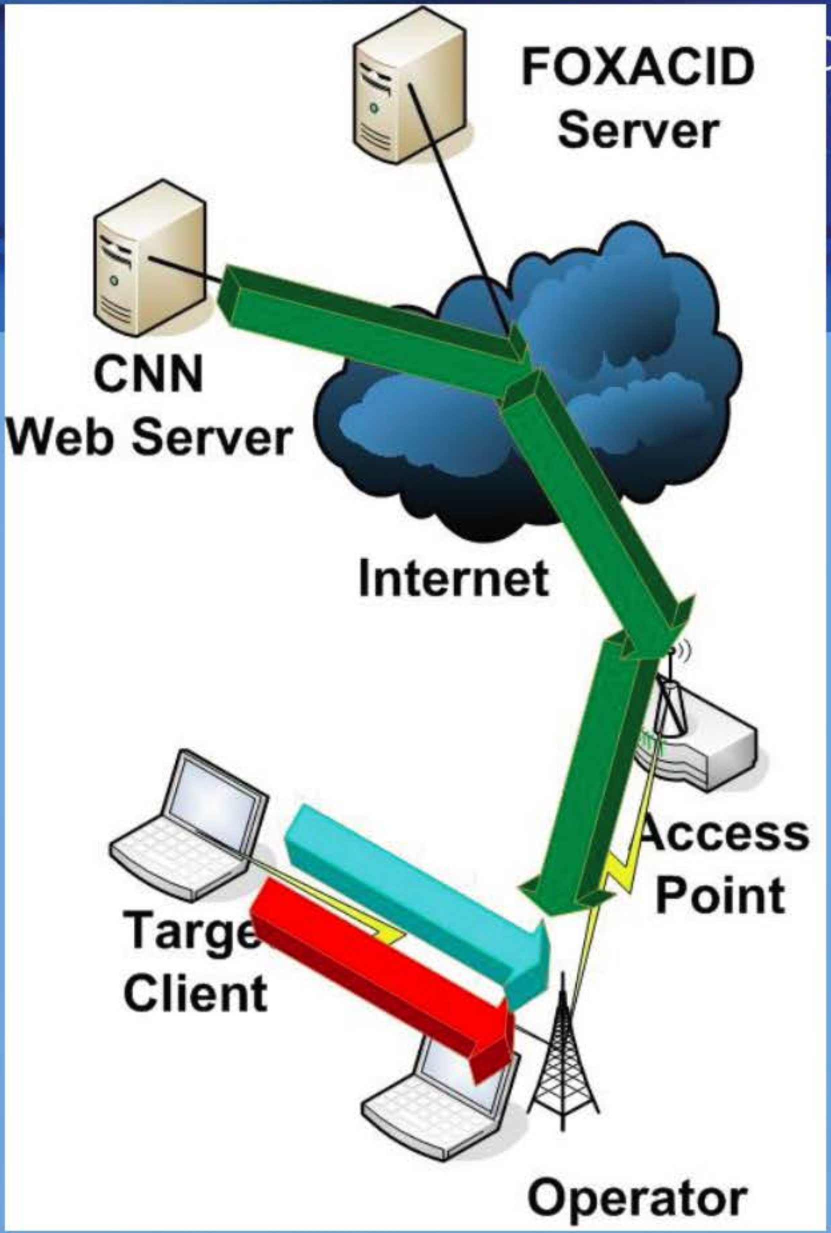
Injection

- ➢ Operate uses SECONDDATE to inject a redirection payload at Target Client.
- ➢ Target Client's original HTTP GET Request continues on it's normal path.



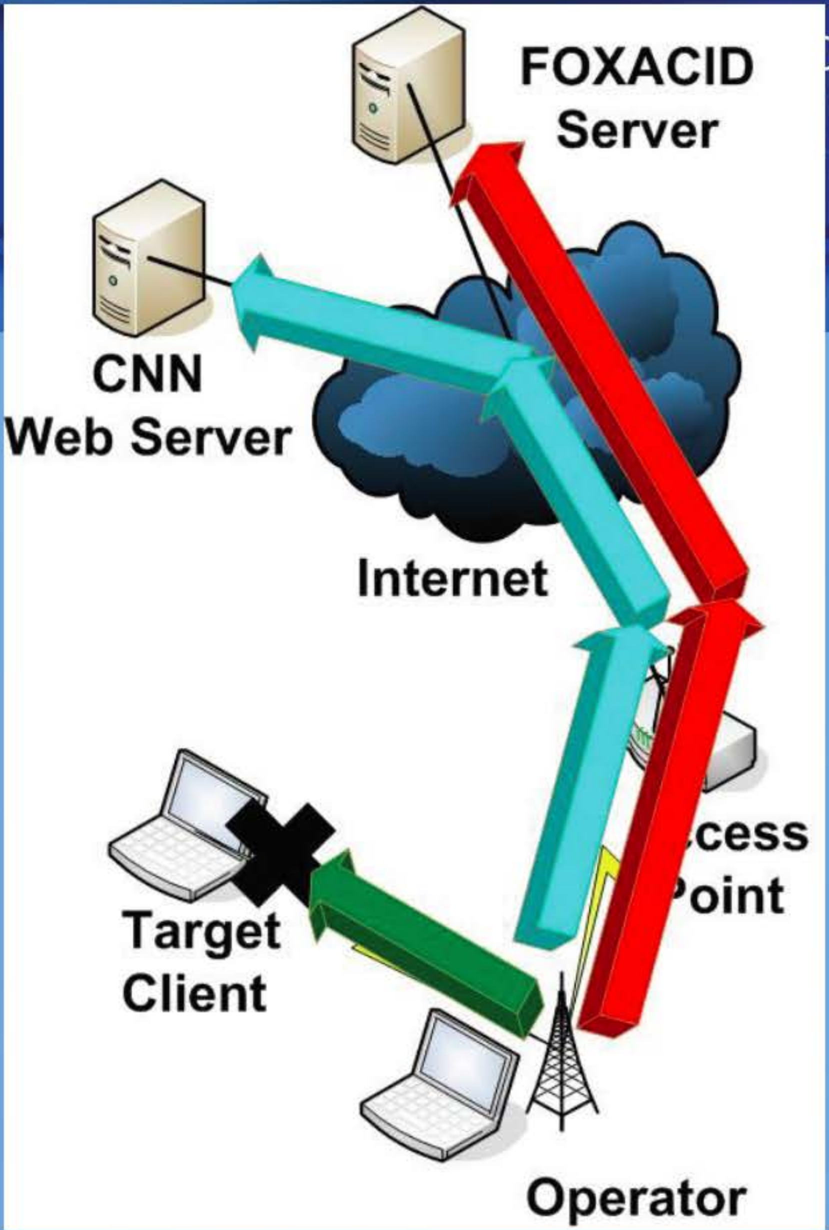
Refresh and Covert Request

- ➢ Injected payload forces Target Client to refresh and send another HTTP GET Request to desired webpage.
- ➢ Covert Request is issued by Target Client to FOXACID Server.



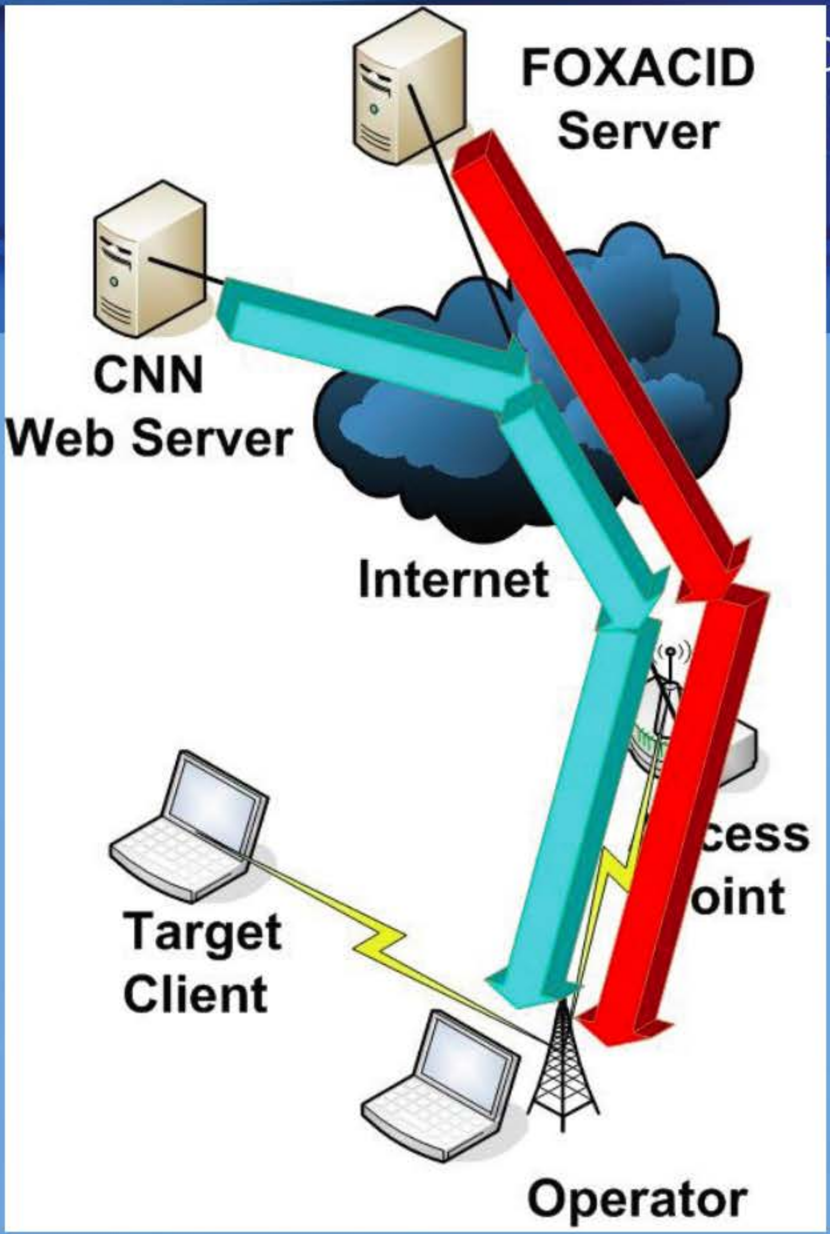
FOXACID Request Received

- FOXACID receives request from entity.
- Entity is validated as Target Client by FOXACID Tag.
- Response to original HTTP GET Request is dropped (but don't worry, that's good)



FOXACID Browser Survey

- ➢ **FOXACID Server instantiates browser survey on Target Client to detect vulnerabilities.**



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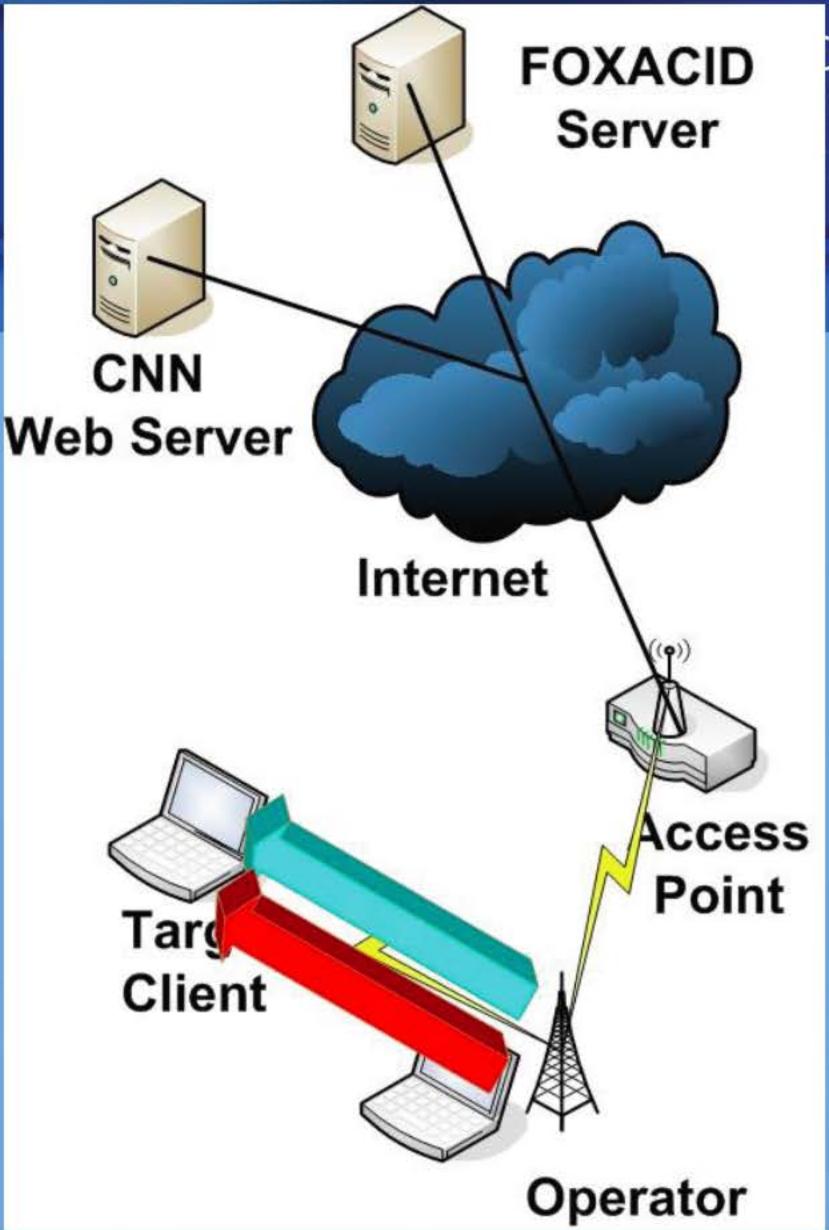
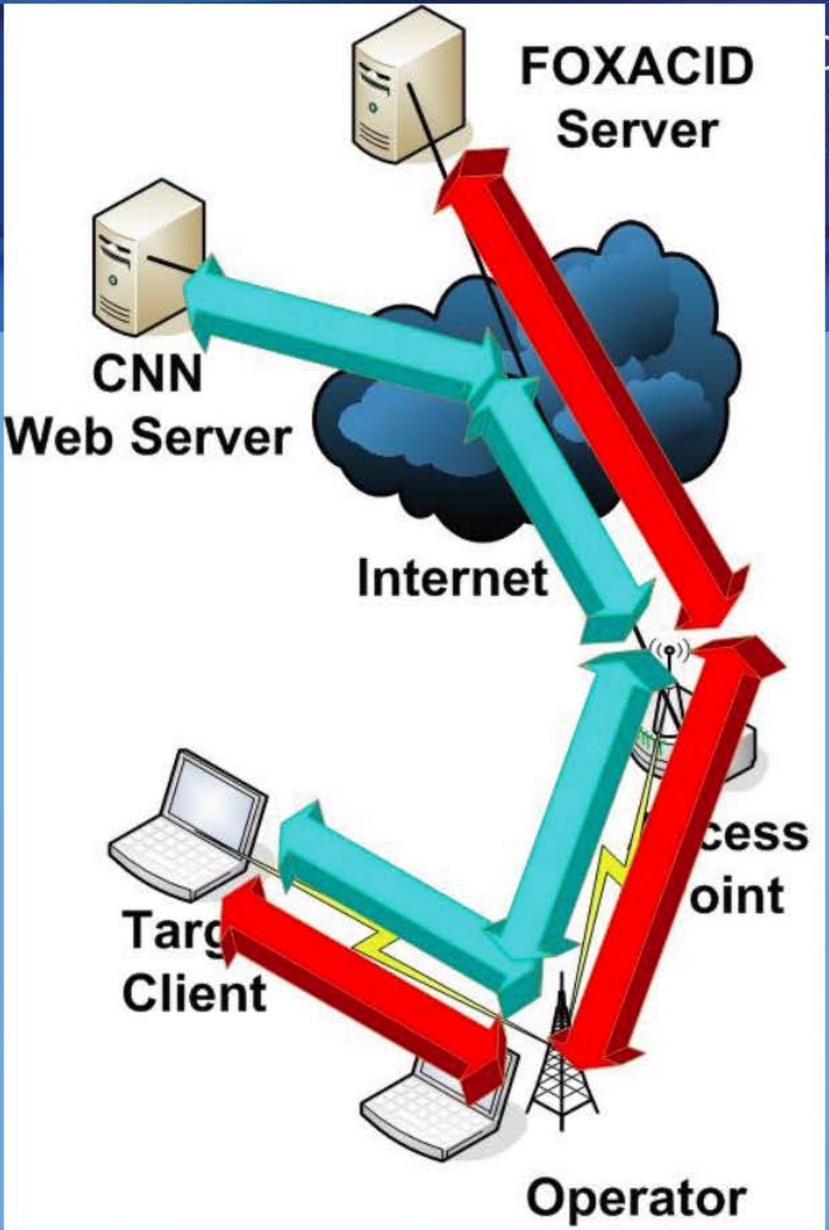


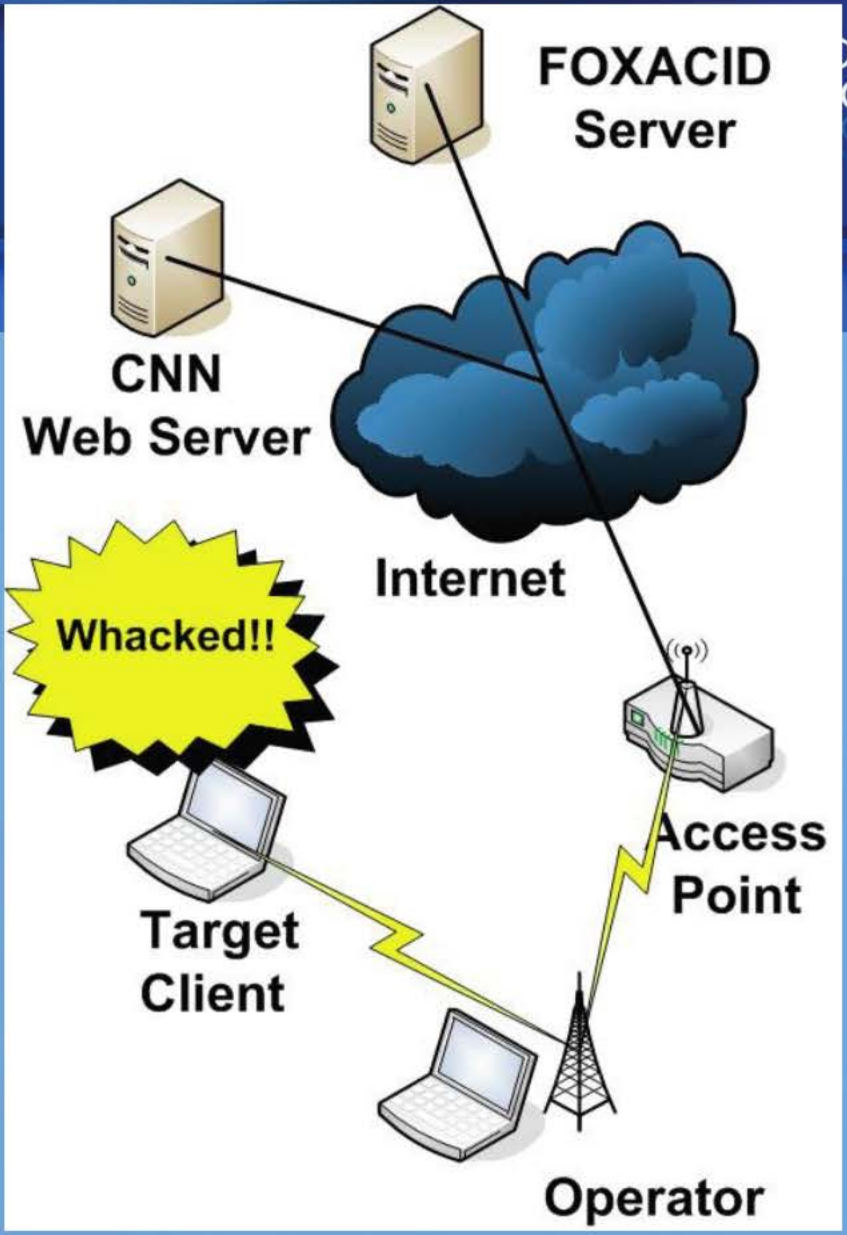
Survey, Payload, Exploitation

- ➢Covert communicates continue between FOXACID and Target until found not vulnerabilities or exploited.
- ➢ Target Client continues normal webpage browsing, completely unaware ☺



WHACKED!

- That's the ultimate goal.



BADDECISION Step Through

- Let’s go through this together…
- … because there are many more pieces!

BADDECISION Demos and Labs

- Grab a partner!
- One Target Client, one Operator.
- Have fun getting whacked!

BADDECISION Pros / Cons

- Pros
  - Works for WPA / WPA2 networks.
  - Can reliability see all communications between target and FOXACID.
- Cons
  - Larger signature than NIGHTSTAND.
  - Requires higher SNR to maintain reliable communications between target and FOXACID.

The End.

Questions?

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