
# IT SECURITY SEMINAR "STALLION 141113"

**Security, NGFW fallacy & going Beyond IP?**

Juniper Networks - Jaro Pietikäinen

# JUNIPER TODAY

2012 Revenue: $4.4 Billion

Global Presence: Offices In 47 Countries

+9000 Employees

**#4** In Ethernet Switching
**#3** In Edge Routing

**#2** In Core Routing, SP Routing, Network Security

**#1** In High-end Firewall

Doing Business With 100% Of Fortune 100

Powering 6 Of The World's 7 Largest Stock Exchanges

Mission: Build the BEST

 www.juniper.net



JUNIPER NETWORKS

# COMMITTED TO INNOVATION AND INVESTMENT

## Security is core to our business at Juniper

**$1B** global revenue

### Market Leader


Remote Access SSL VPN


High-End Firewalls


Network Security

### Global Powerhouse

Serving customers in **47 countries**, with a worldwide community of **over 1000 Reseller Partners**

### Dedicated Innovator

**Juniper R&D** is **23% of revenues** – a figure no one else in the industry comes close to on a percentage basis

**New in 2012:** WebApp Secure - A differentiated approach to security with our Intrusion Deception capabilities

**New in 2013:** Juniper DDoS Secure to prevent volumetric and “low and slow” DDoS attacks

Infonetics Research 2012





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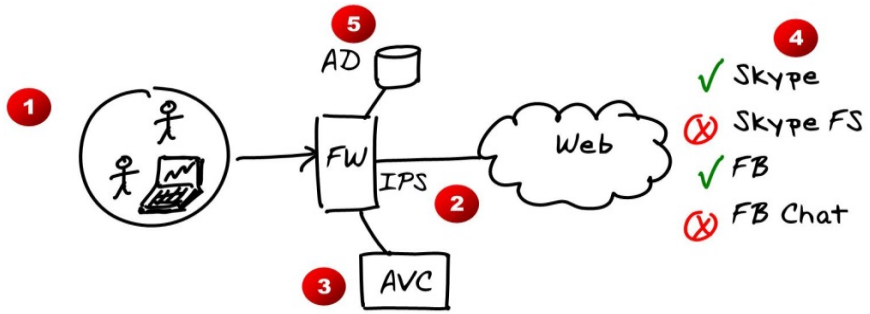
# 1 Introduction

# 2 NGFW Use Cases

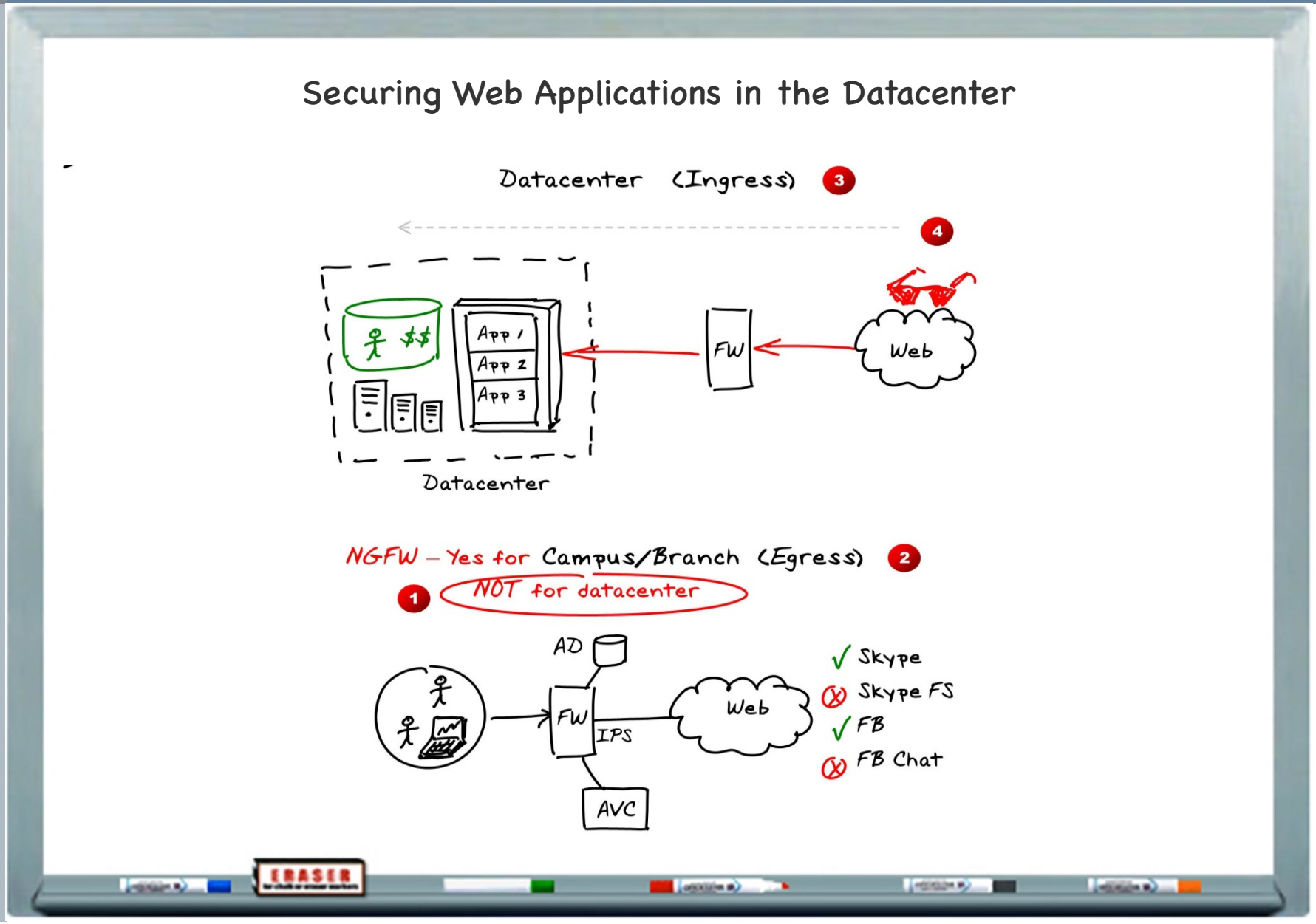
## Securing Web Applications in the Datacenter

Datacenter

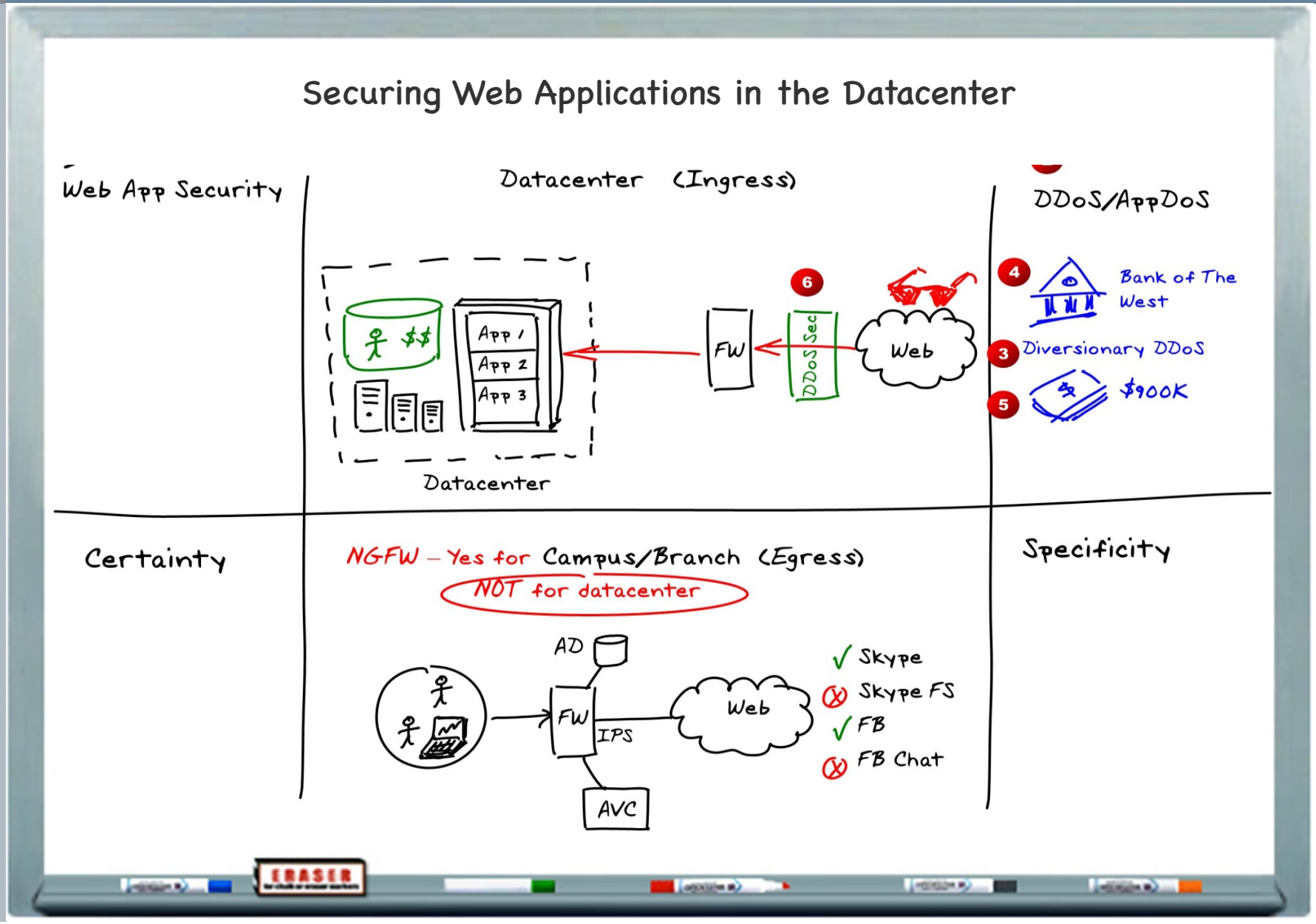
Campus/Branch



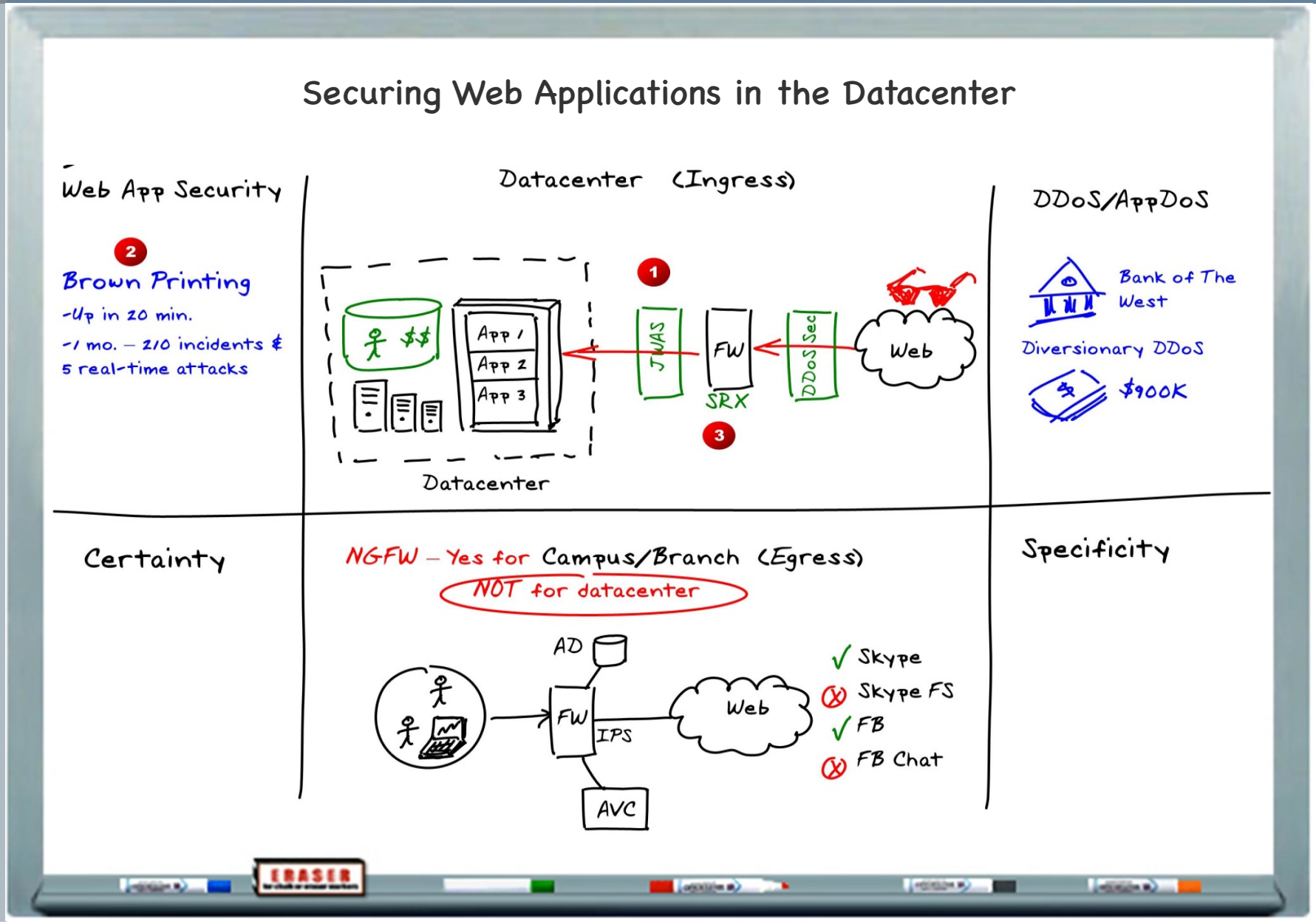
# Egress vs. Ingress



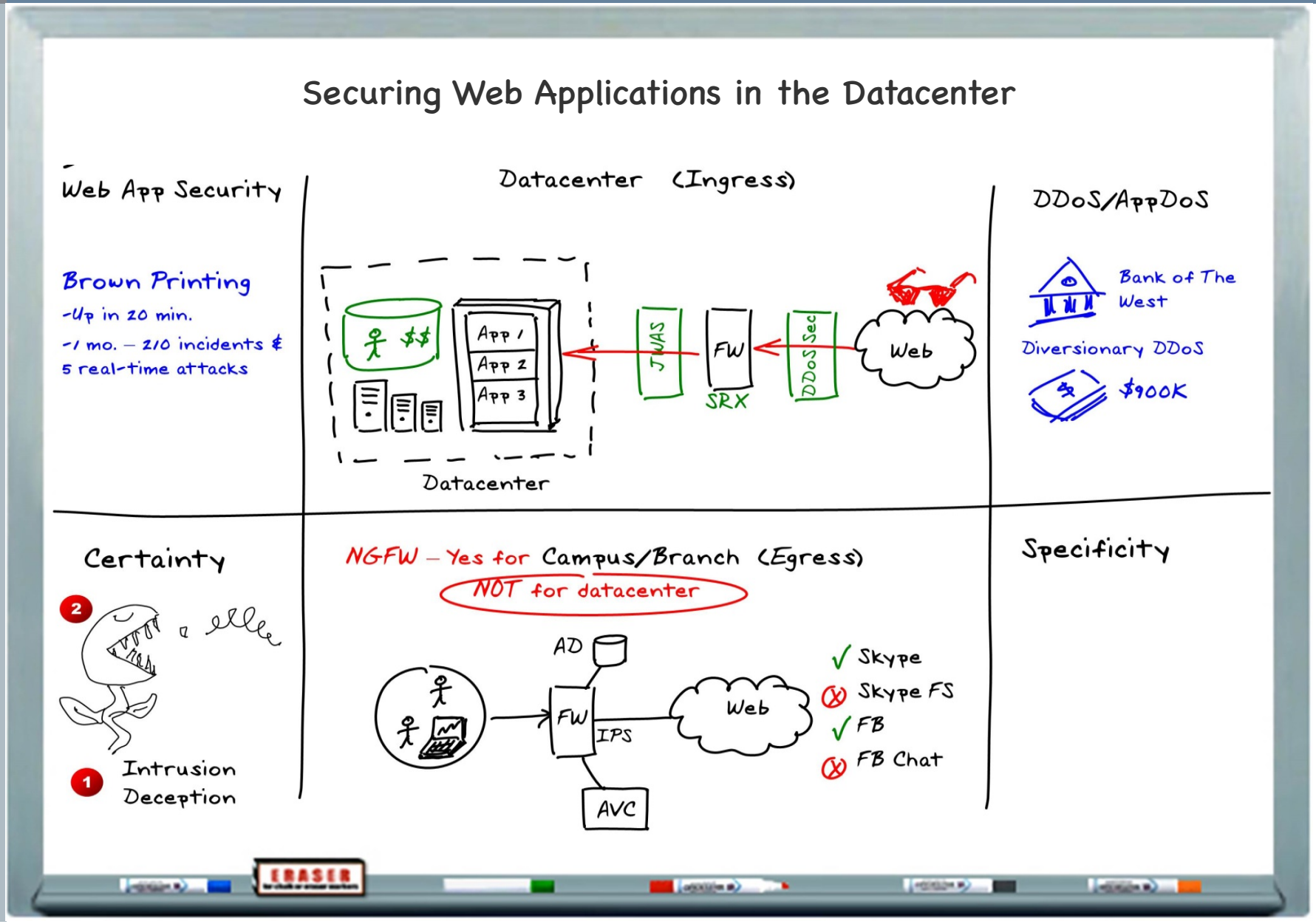
# 5 DDoS & AppDoS



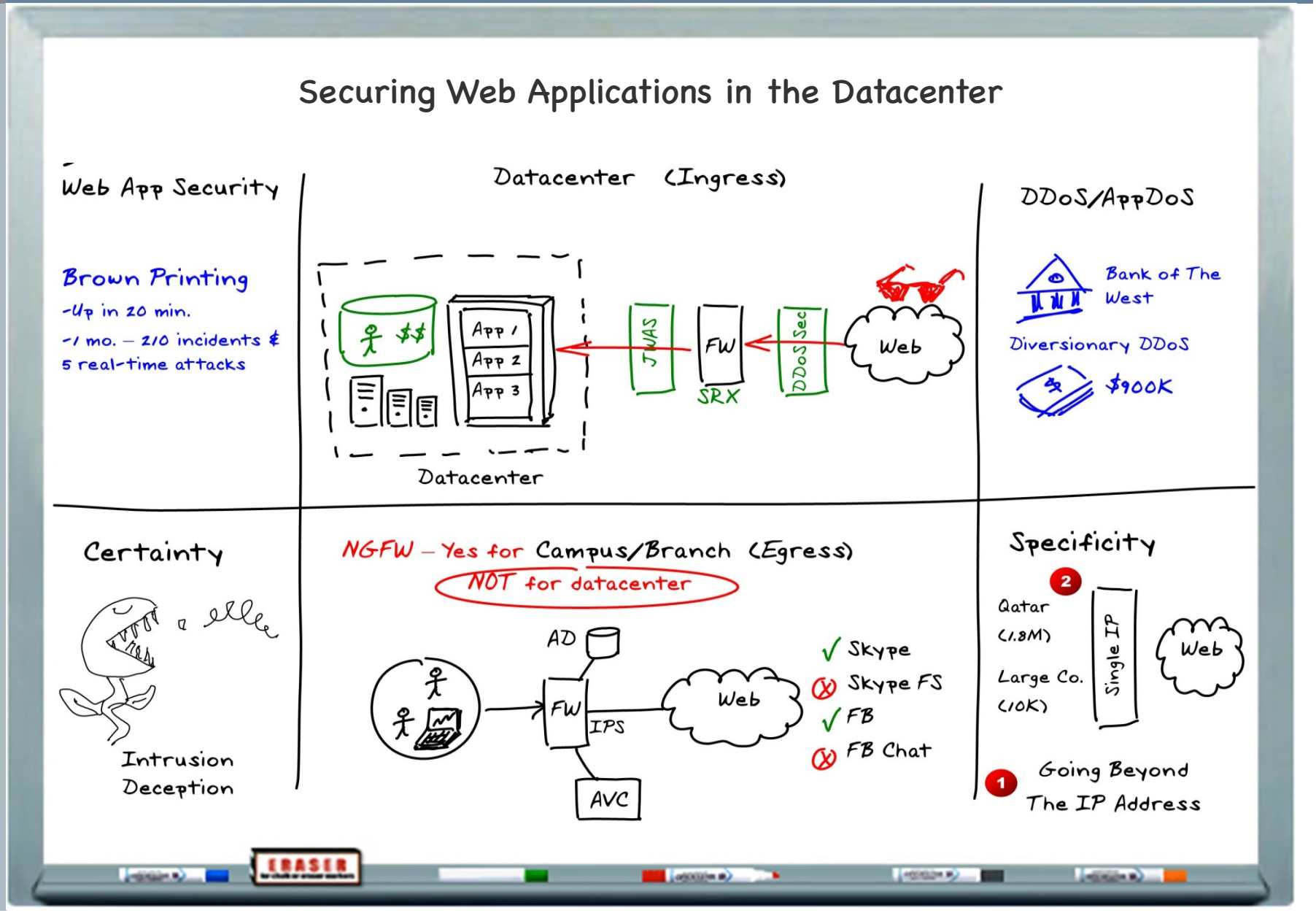
# Web App Security



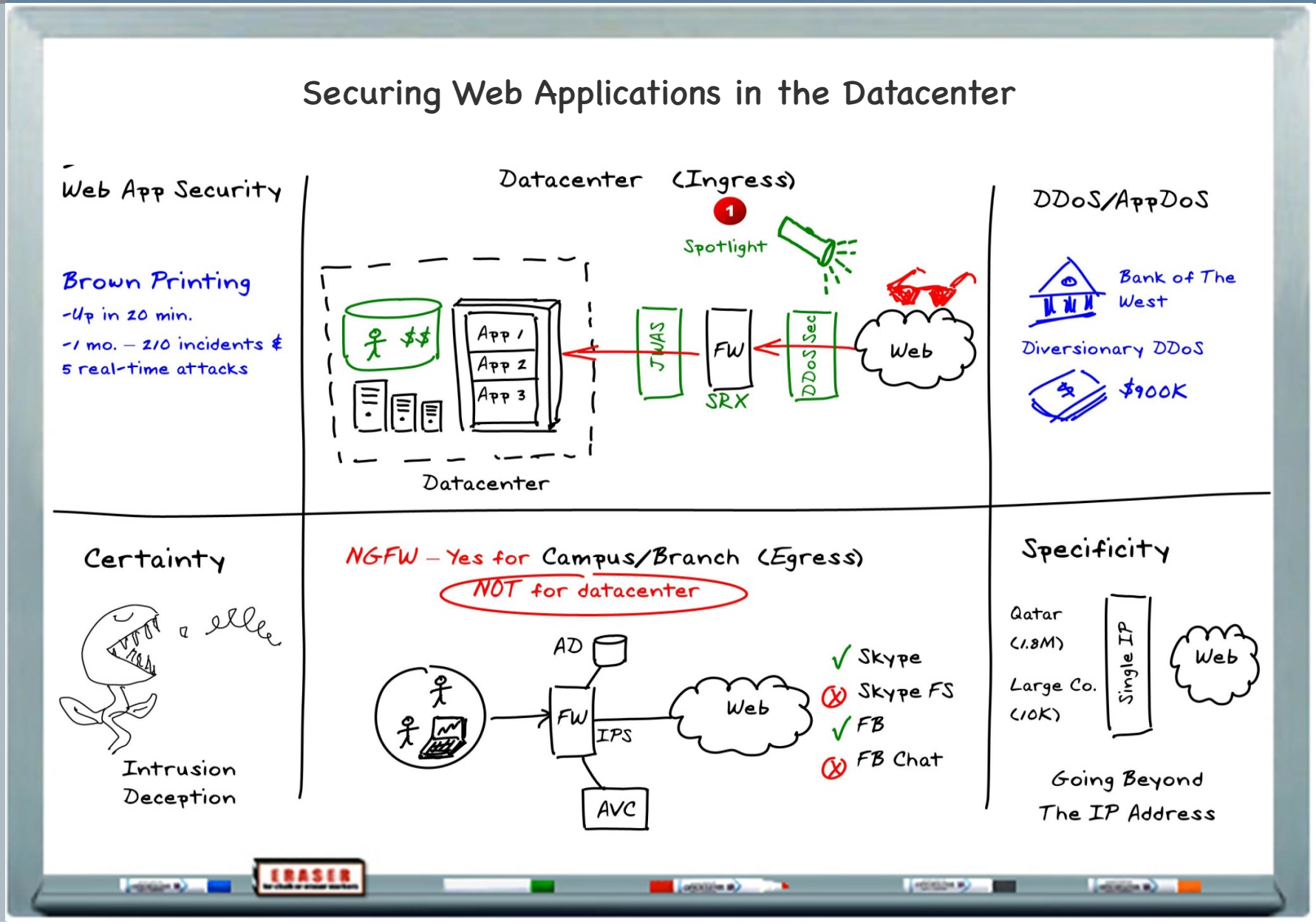
# 7 Certainty



# Specificity



# Spotlight & Next Steps



# THE SMARTEST WAY TO PROTECT WEBSITES AND WEB APPS FROM ATTACKS

Junos WebApp Secure

Junos Spotlight Secure

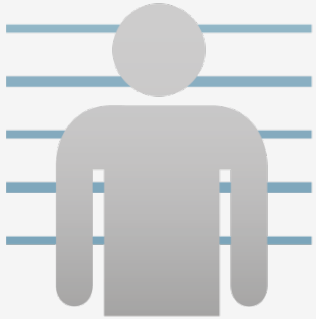
# THE JUNOS WEBAPP SECURE ADVANTAGE DECEPTION-BASED SECURITY

## Detect

"Tar Traps" detect threats without false positives.

## Track

Track IPs, browsers, software and scripts.



## Profile

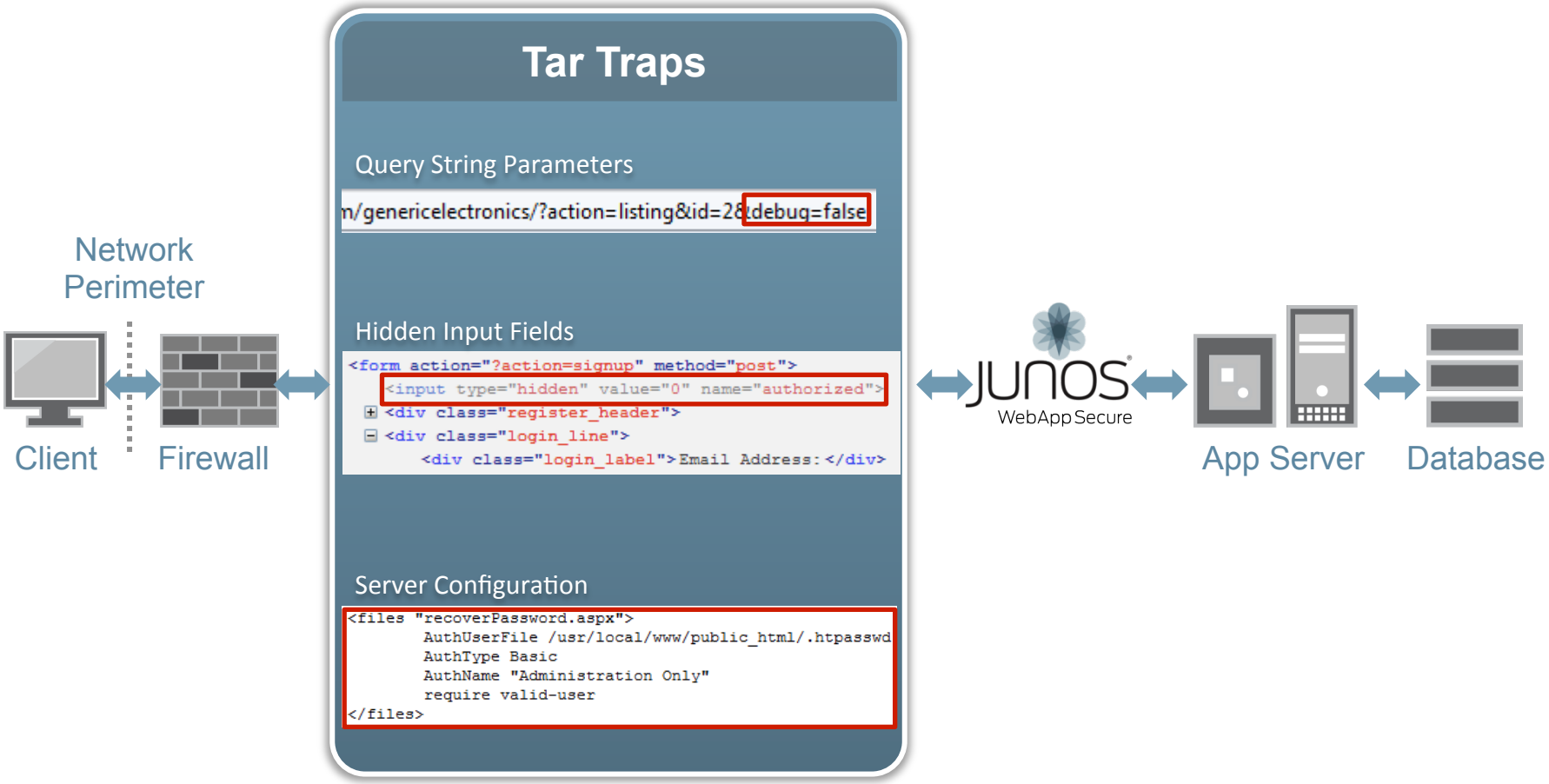
Understand attacker's capabilities and intents.

## Respond

Adaptive responses, including block, warn and deceive.

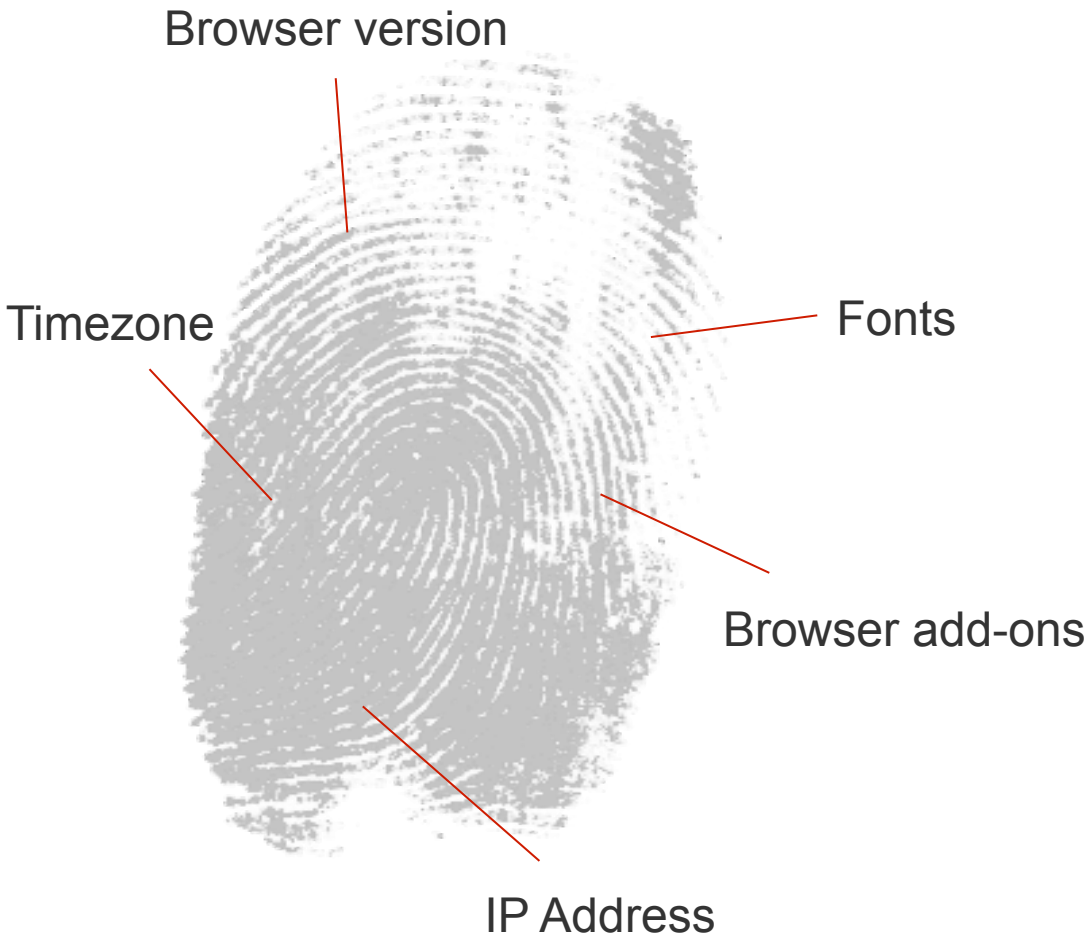
 

# DETECTION BY DECEPTION



# FINGERPRINT OF AN ATTACKER




**200+**

attributes used to create the fingerprint.

**~ Real Time**

availability of fingerprints

**False Positives**

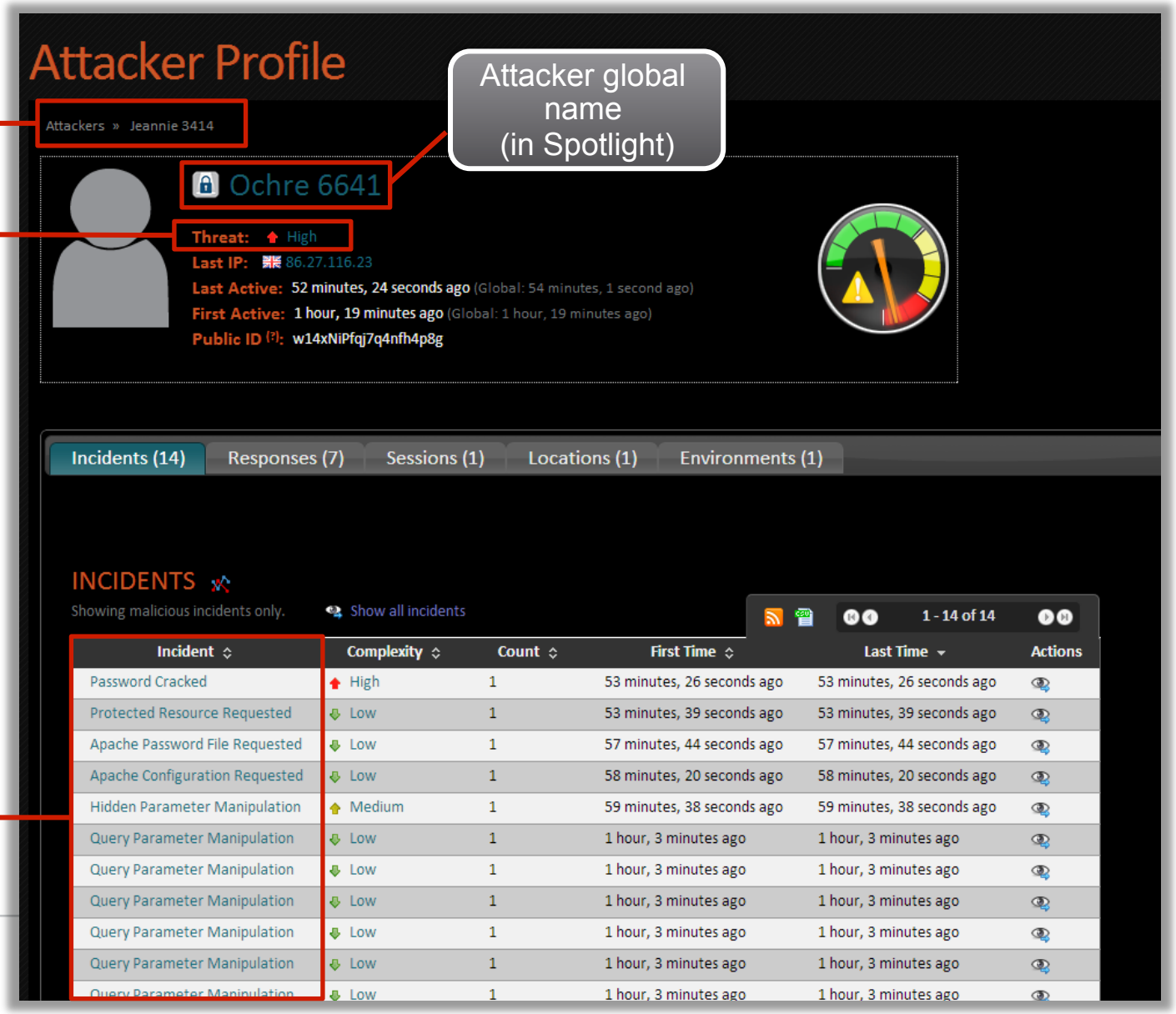
nearly zero

# SMART PROFILE OF ATTACKER

Attacker local name (on machine)

Attacker threat level

Incident history



# JUNOS SPOTLIGHT SECURE


## Detect Anywhere, Stop Everywhere

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# RESPOND AND DECEIVE

JUNOS WebApp Secure

| Junos WebApp Secure Responses | Human Hacker | Botnet | Targeted Scan | IP Scan | Scripts &Tools Exploits |
|---|---|---|---|---|---|
| Warn attacker | ● | | | | |
| Block user | ● | ● | ● | ● | ● |
| Force CAPTCHA | ● | ● | ● | ● | ● |
| Slow connection | ● | ● | ● | ● | ● |
| Simulate broken application | ● | ● | ● | ● | ● |
| Force log-out | ● | ● | | | ● |

All responses are available for any type of threat. Highlighted responses are most appropriate for each type of threat.

 

# UNIFIED PROTECTION ACROSS PLATFORMS

**Internal**


**Virtualized**


**Cloud**


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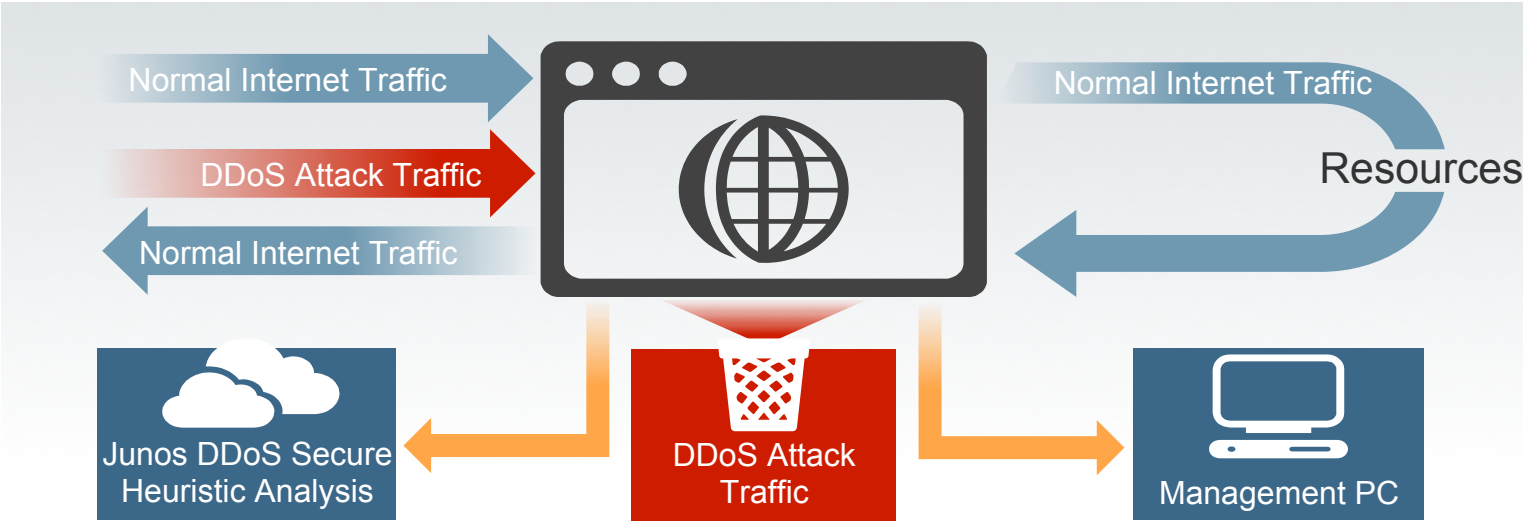
# INTRODUCTION TO JUNOS DDOS SECURE

Advanced DDoS Mitigation Technology

# DDOS SECURE

## Prevents volumetric and “low and slow” DDoS attacks




**Comprehensive DDoS prevention**

- Identifies and deters DDoS attacks, including those targeting specific apps
- Ensures availability for legitimate users while blocking malicious traffic, even under the most extreme attack conditions

**What’s unique?**

- 80% effective 10 minutes after installation
- 99.999% effective after 6-12 hours
- Dynamic Heuristic Technology
- Delivered in 1Gb to 40Gb HA appliances
- Multi tenanted and fully IPv6 compliant

# JUNOS DDoS SECURE VARIANTS

## Variants

- 1U 100M/1G/3G/10G
- 10U 40G
- Standalone
- Fail-safe Card
  - Fiber (1G SX/LX 10G SR/LR)
  - Copper (10M/100M/1G)
- Active – Standby
- Active – Active (Asymmetric Routing)
- VMware Instance


everywhere