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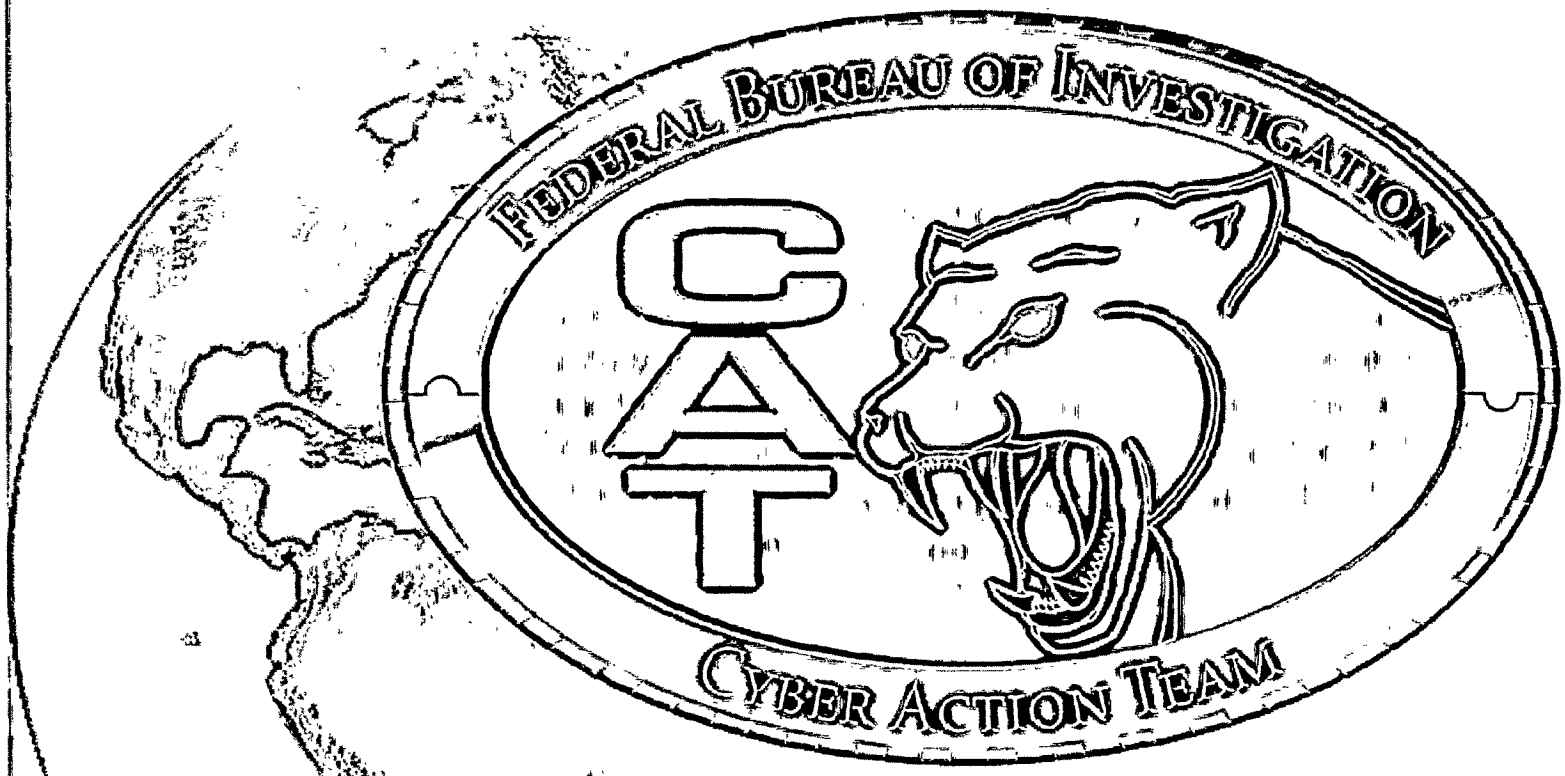
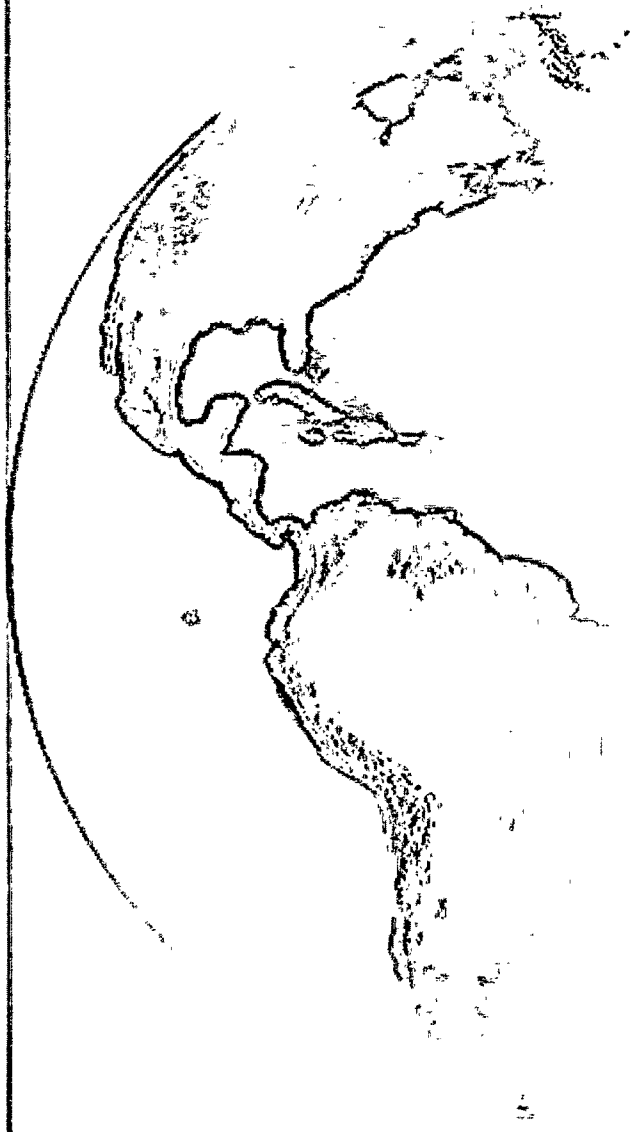


FBI Cyber Division
Operation BOT ROAST



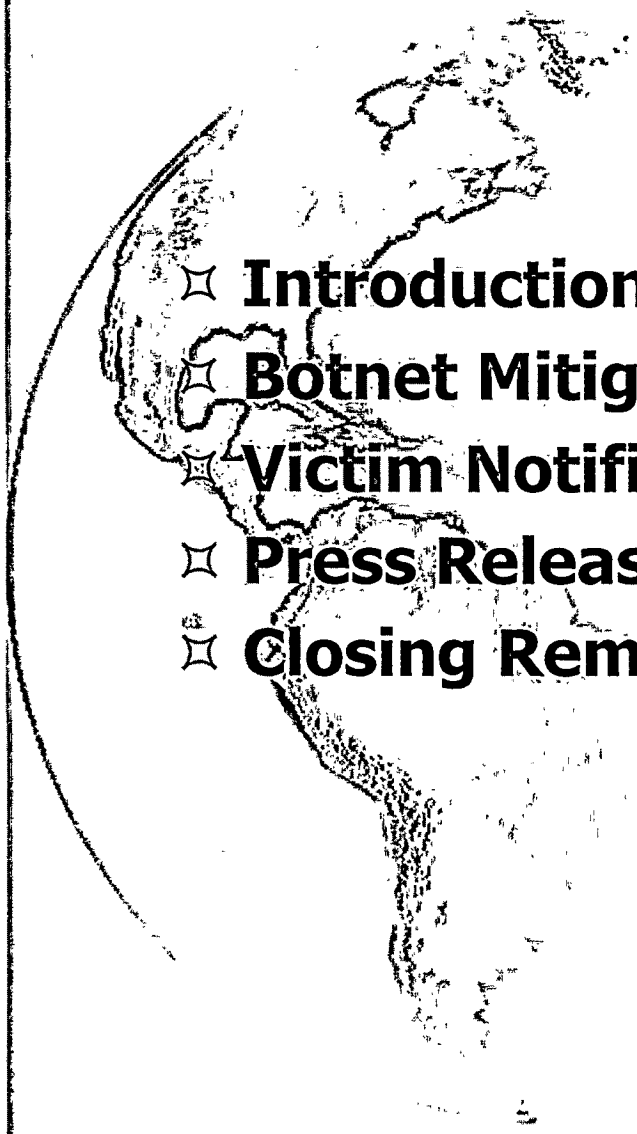
Operation BOT ROAST

Botnet Initiative National Takedown

July 12, 2007

BOTCON 6

Sydney, Australia



Agenda

- **Introductions**
- **Botnet Mitigation Strategy**
- **Victim Notification Strategy**
- **Press Release/Media Strategy**
- **Closing Remarks**

Introduction-

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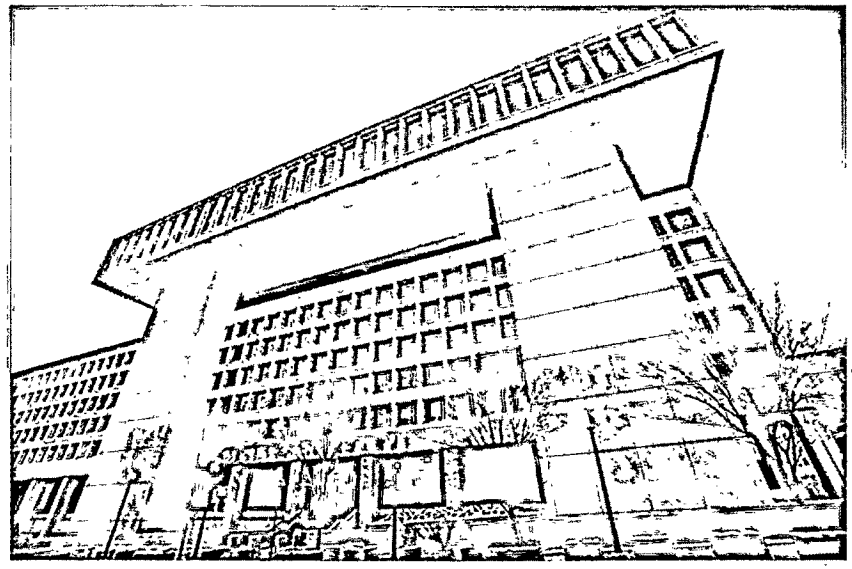
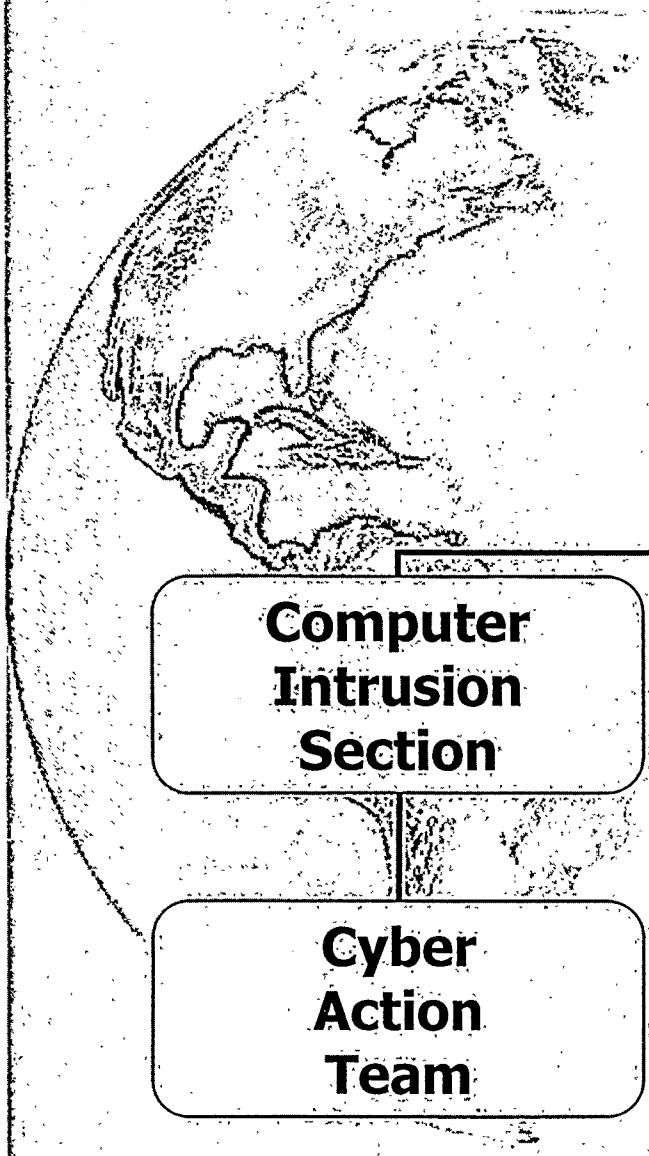
- Supervisor at FBIHQ Cyber Division
- Philadelphia Div
  - 8 Years
- FBI National Botnet Coordinator



FBI Cyber Division



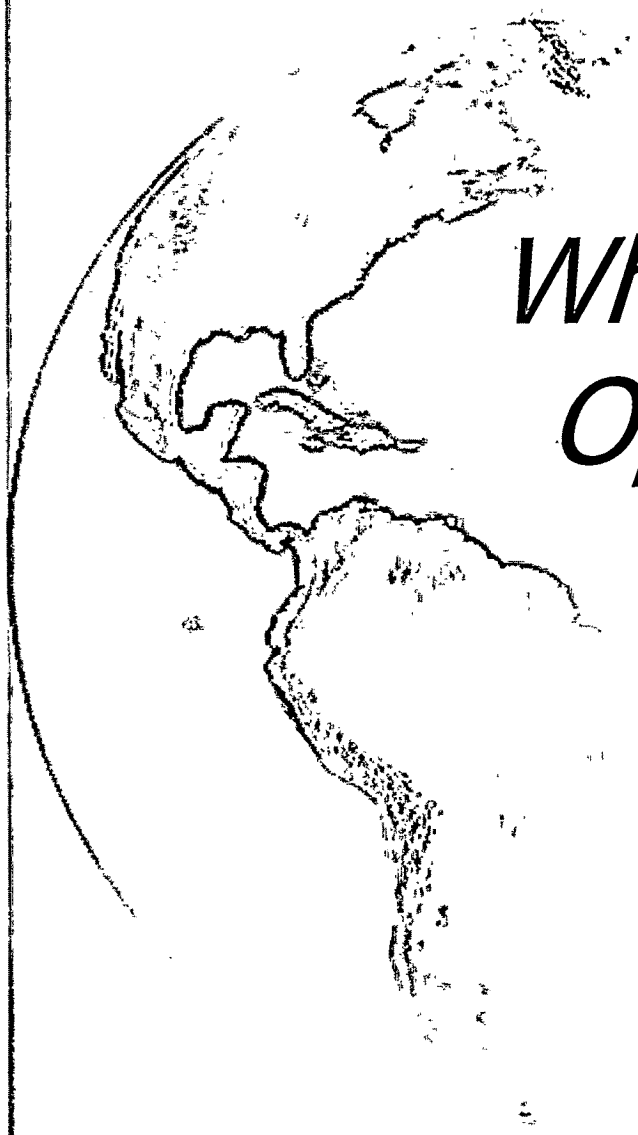
Cyber Division

Computer Intrusion Section

Cyber Crime Section

Information Sharing & Analysis Section

Cyber Action Team

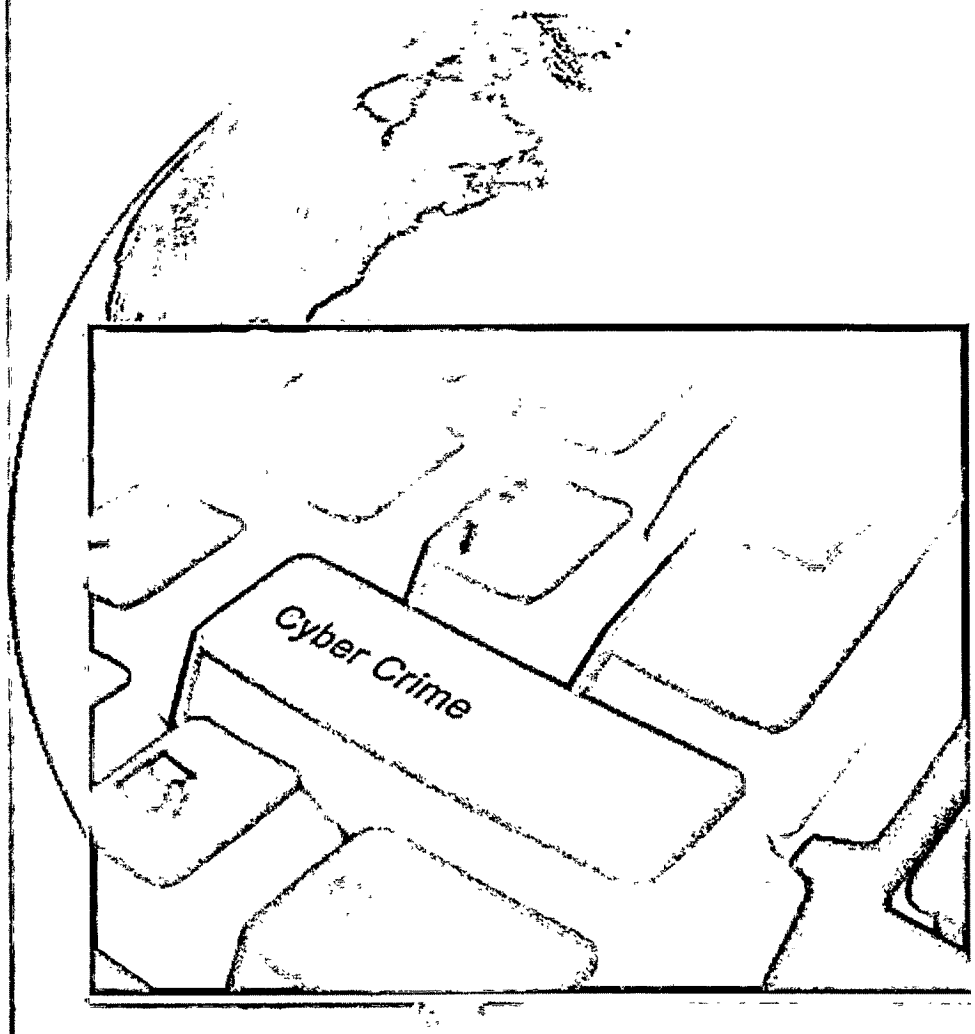


What was the genesis of Operation BOT ROAST?

Answer: Botnet Task Force

October 2006

- **Botnet Task Force discusses plans for a coordinated takedown**
- **Multi-National takedown**
- **Extremely difficult**

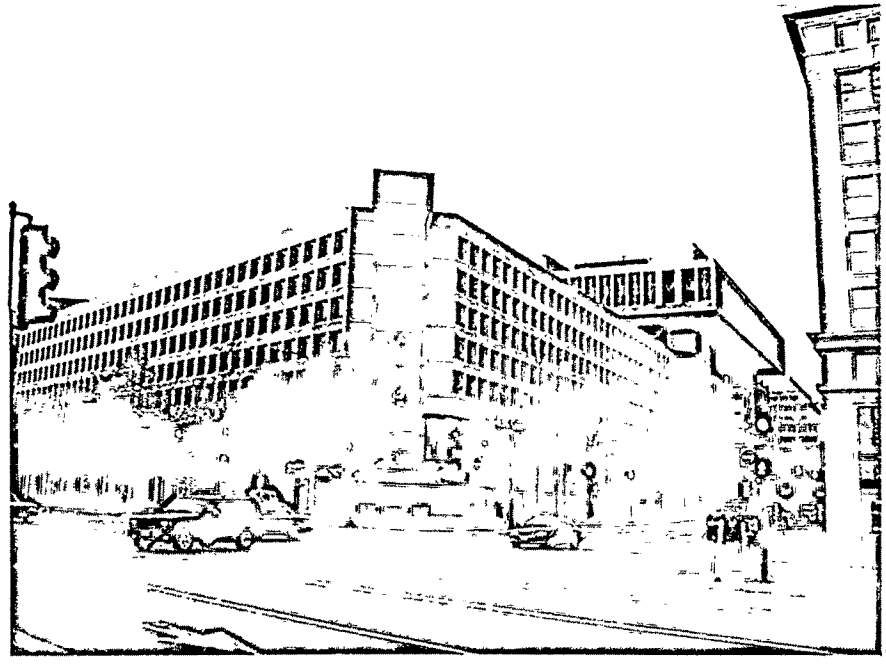


March 2007

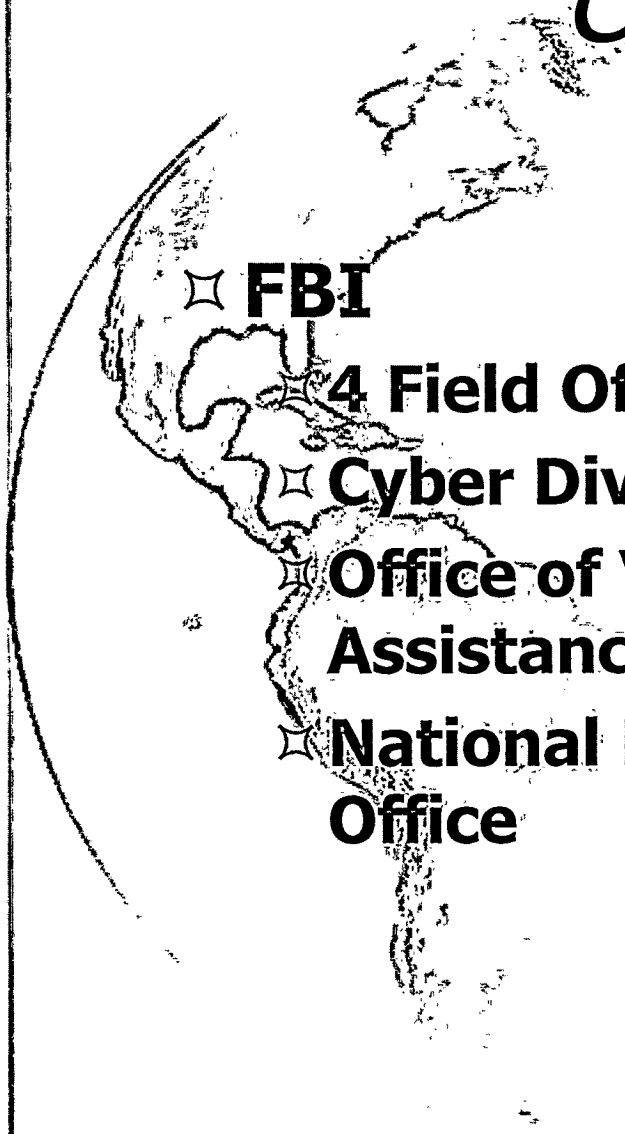
- **FBI Cyber Division initiates National Botnet Takedown Operation**
- **Operation BOT ROAST**
- **Operation is small in nature, approximately four (4) field offices**

Operation BOT ROAST : Goals

- **Botnet Mitigation Campaign**
- **Public Awareness Campaign**
- **Victim Notification Campaign**
- **Media and Press Campaign**

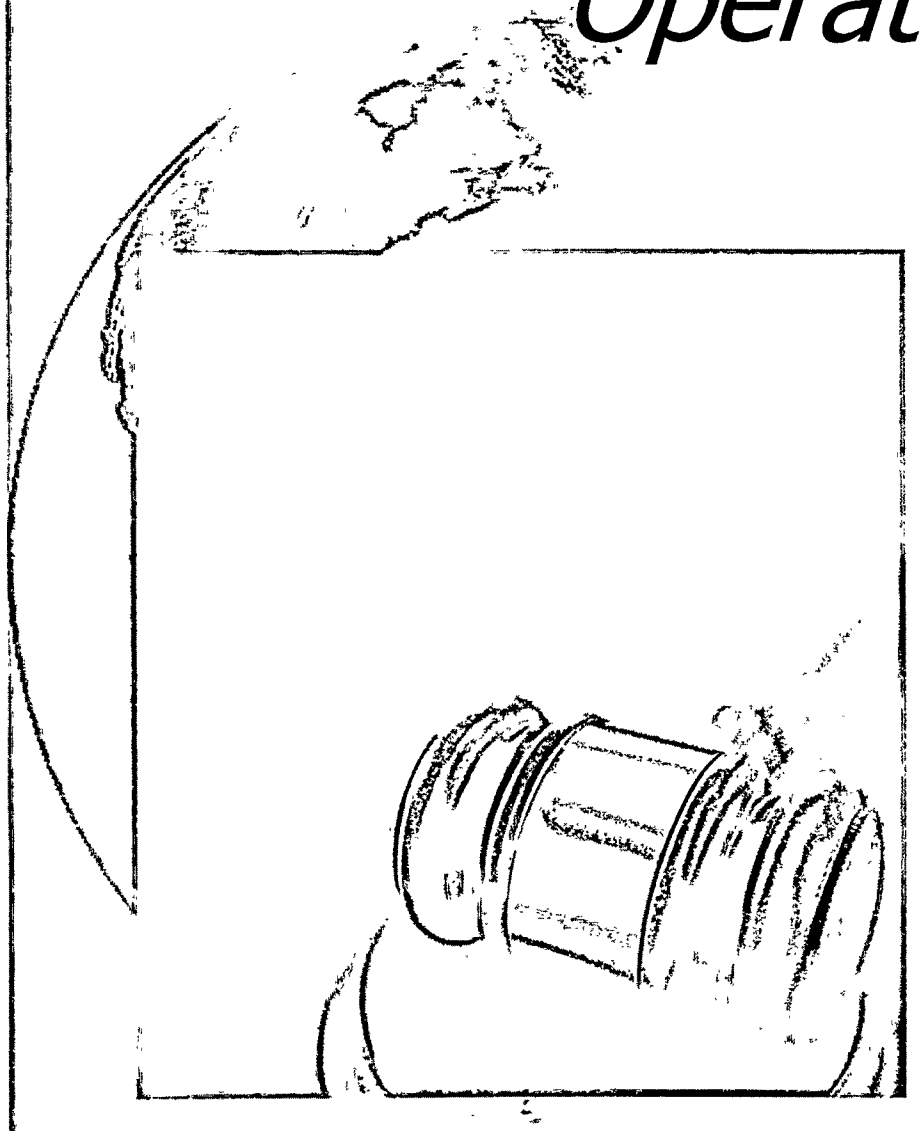


Operation BOT ROAST: Players



- **FBI**
  - **4 Field Offices**
  - **Cyber Division**
  - **Office of Victim Assistance**
  - **National Press Office**

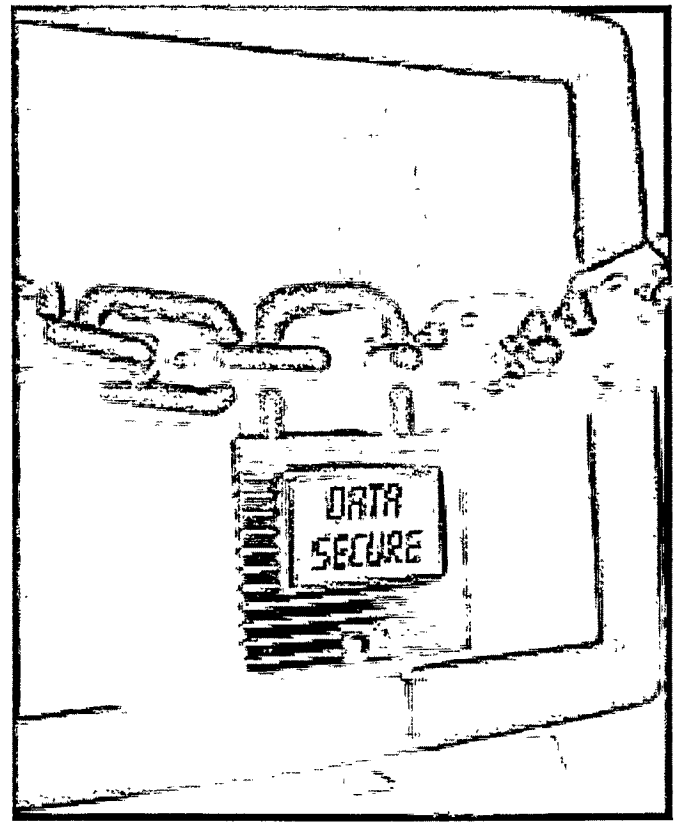
Operation BOT ROAST: Players



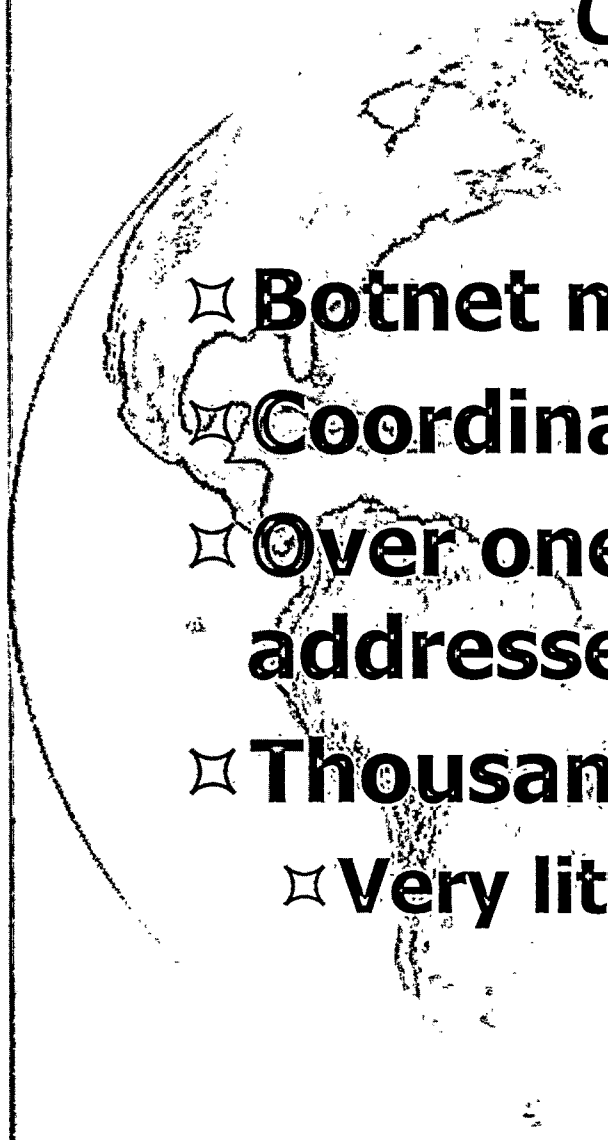
- **FBI**
  - **CART- Forensics**
  - **General Counsel**
  - **Internet Crime Complaint Center**
- **US Department of Justice**
  - **Computer Crimes & Intellectual Property**

Operation BOT ROAST: Players

- **Internet Service Providers**
- **Microsoft**
- **CERT Coordination Center**
- **US CERT**

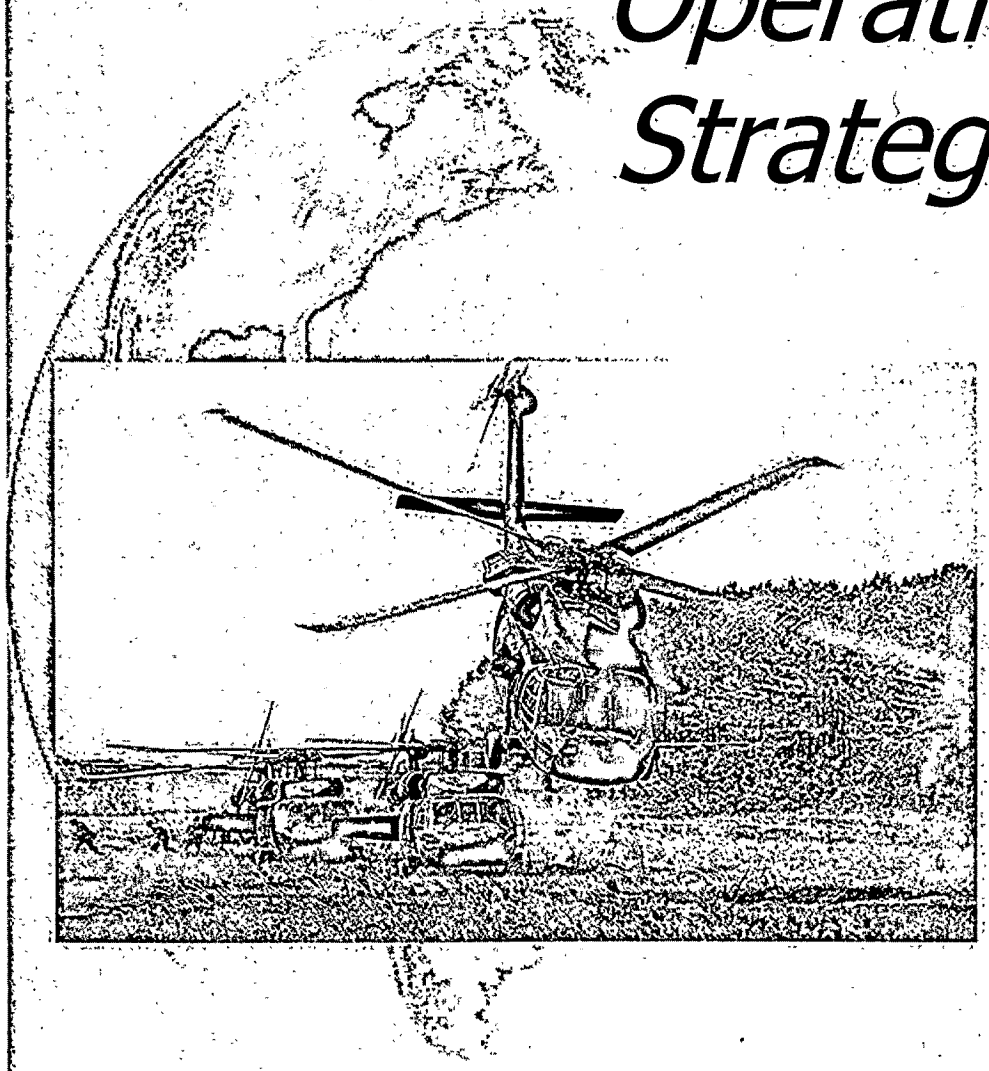


Operation BOT ROAST: Battlefield



- **Botnet mitigation = Difficult**
- **Coordination = Challenging**
- **Over one million victim IP addresses**
- **Thousands of fraud malware**
  - **Very little botnet C&C malware**

Operation BOT ROAST Strategy

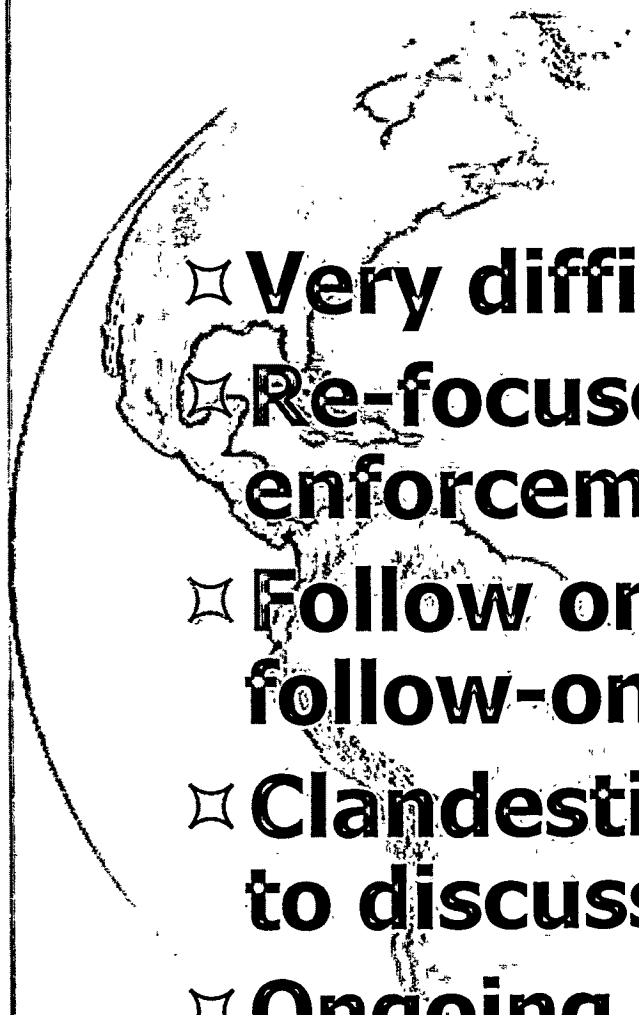


- **Public Awareness Campaign**
- **To disrupt and deter the Botnet Underground**
- **To disrupt and deter online criminals utilizing botnets**

Public Awareness

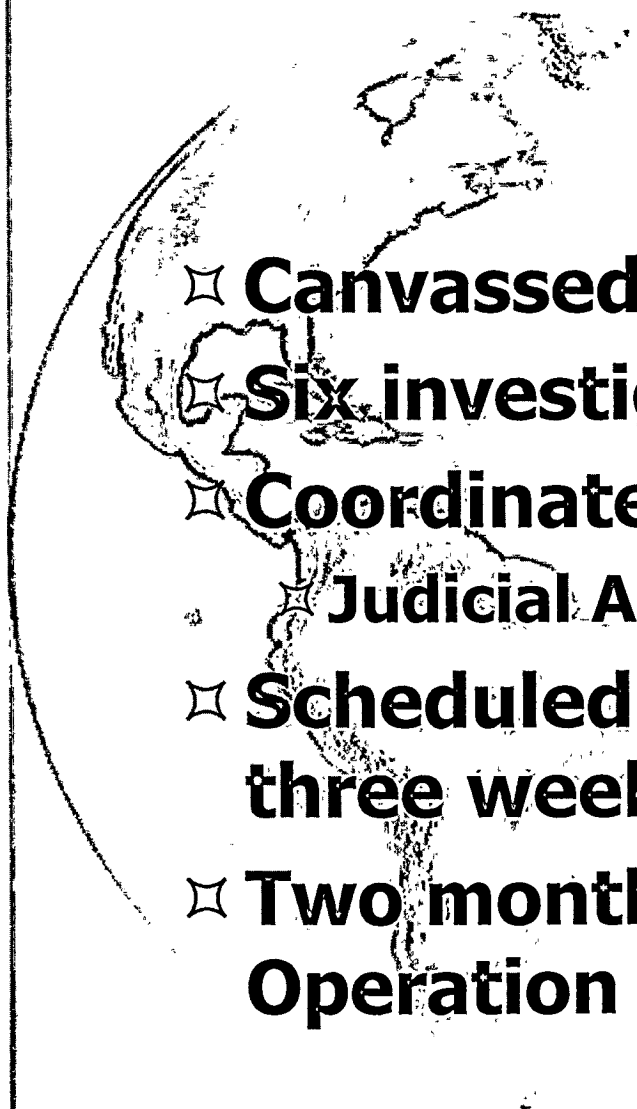
- **Strategy was to educate**
- **Show law enforcement is engaging the botherders**
- **Show industry and law enforcement are joining forces**

Operation BOT ROAST: Mitigation



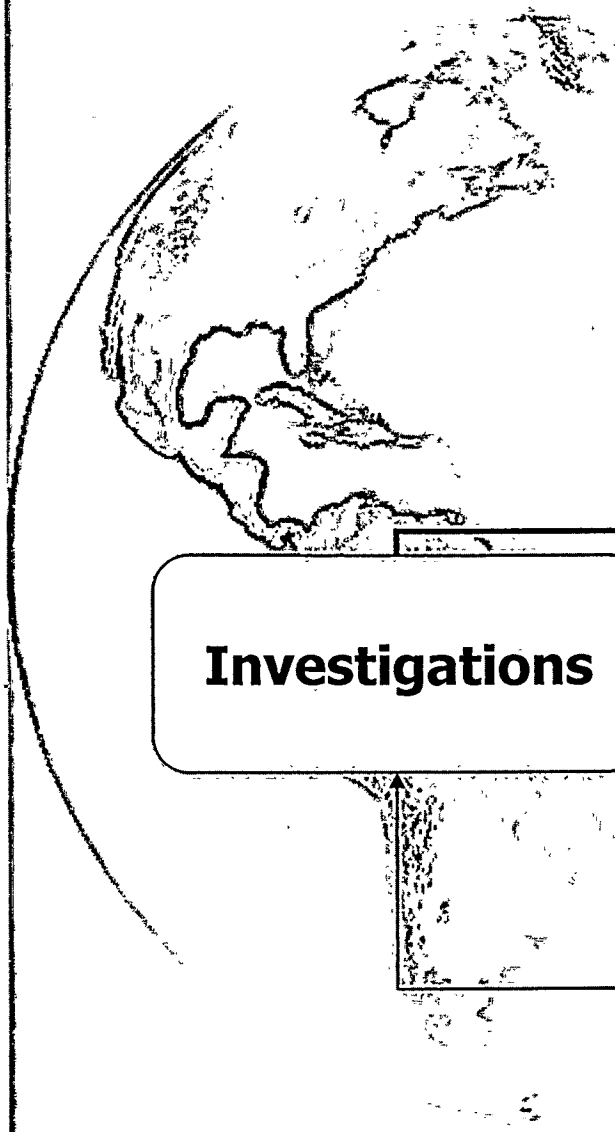
- **Very difficult task**
- **Re-focused on botnet crimes law enforcement could prosecute**
- **Follow on botnet activity through follow-on investigations**
- **Clandestine meeting with industry to discuss strategy**
- **Ongoing Operation**

Operation BOT ROAST: Coordination



- **Canvassed investigations**
- **Six investigations identified**
- **Coordinated takedown**
  - **Judicial Action on or about the same time**
- **Scheduled conference calls appx every three weeks.**
- **Two months scheduled to execute Operation BOT ROAST**

Operation BOT ROAST



Cyber Division

Investigations

Media/Press

Office of Victim Assistance

Industry

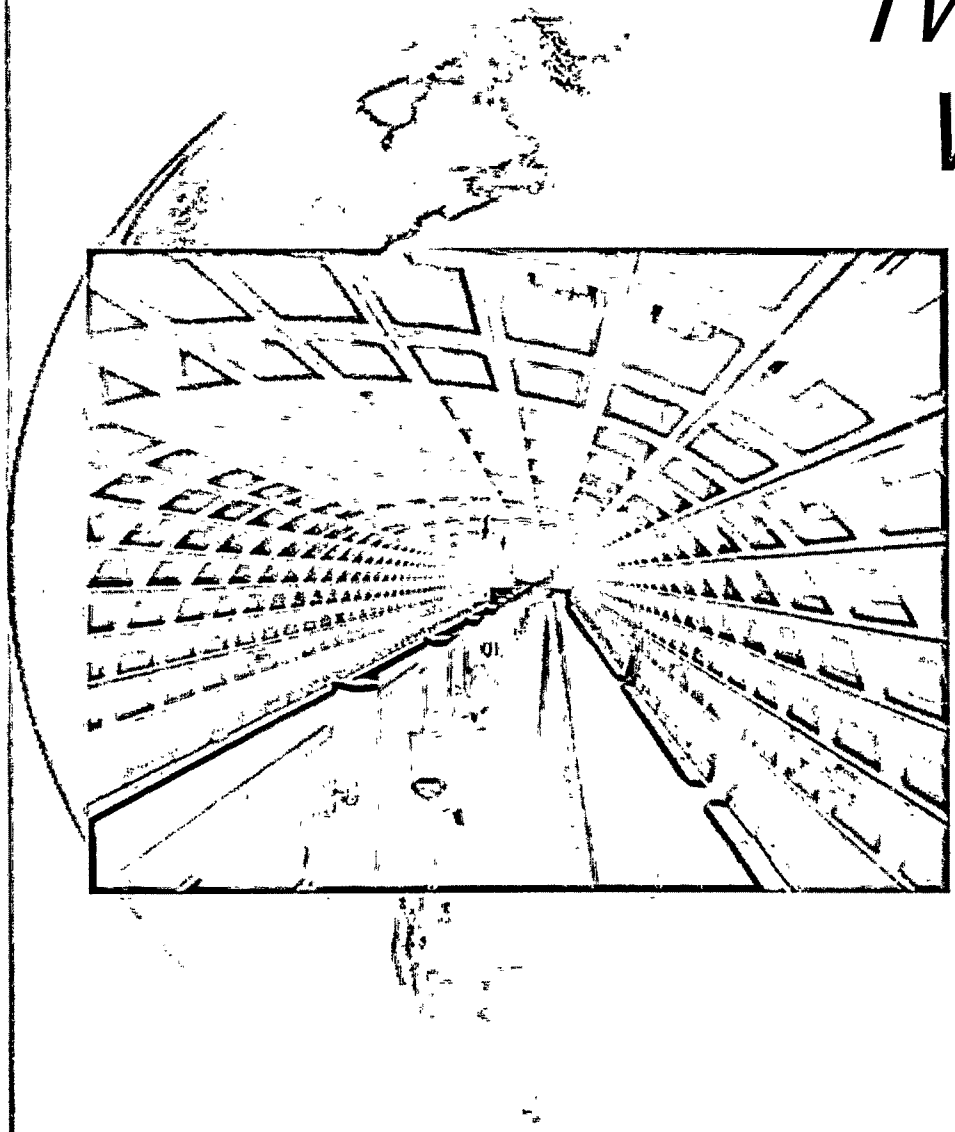
Operation BOT ROAST: Victim Identification Notification

- **How does one identify and notify one million victim IP addresses?**
  - **Privacy issues**
  - **Resources to identify**
  - **Resources to notify**
  - **Varying categories of victims**

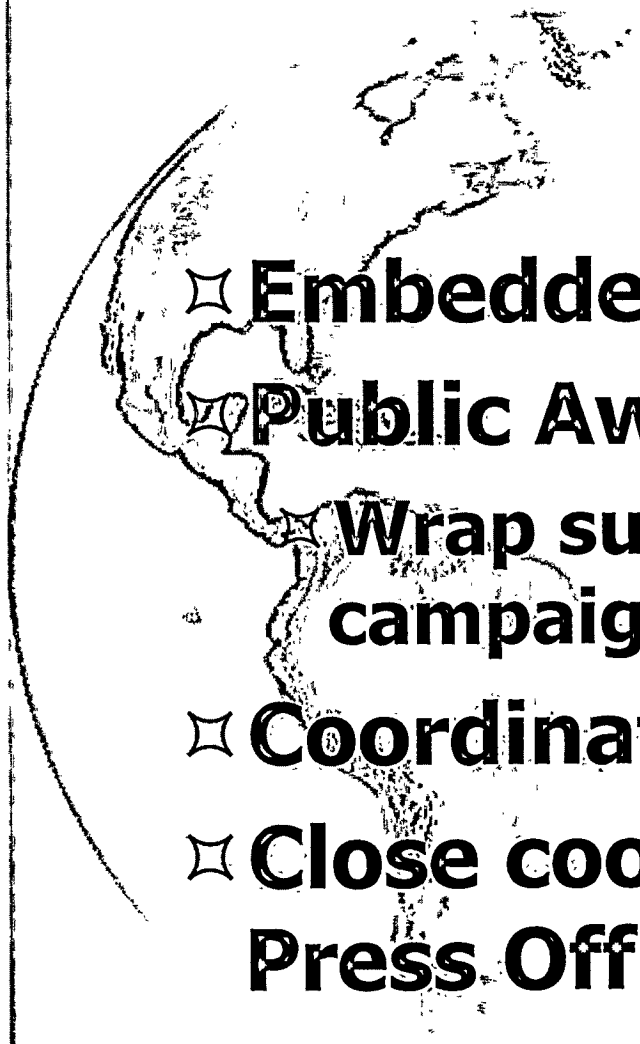
Four Categories of Victims

- **Internet Services Providers**
- **Education Institutions**
- **US Government (US CERT)**
- **Other**
  - **Local providers**
  - **Foreign Government**
  - **Foreign ISP**

Two Wave Process: Victim Notification



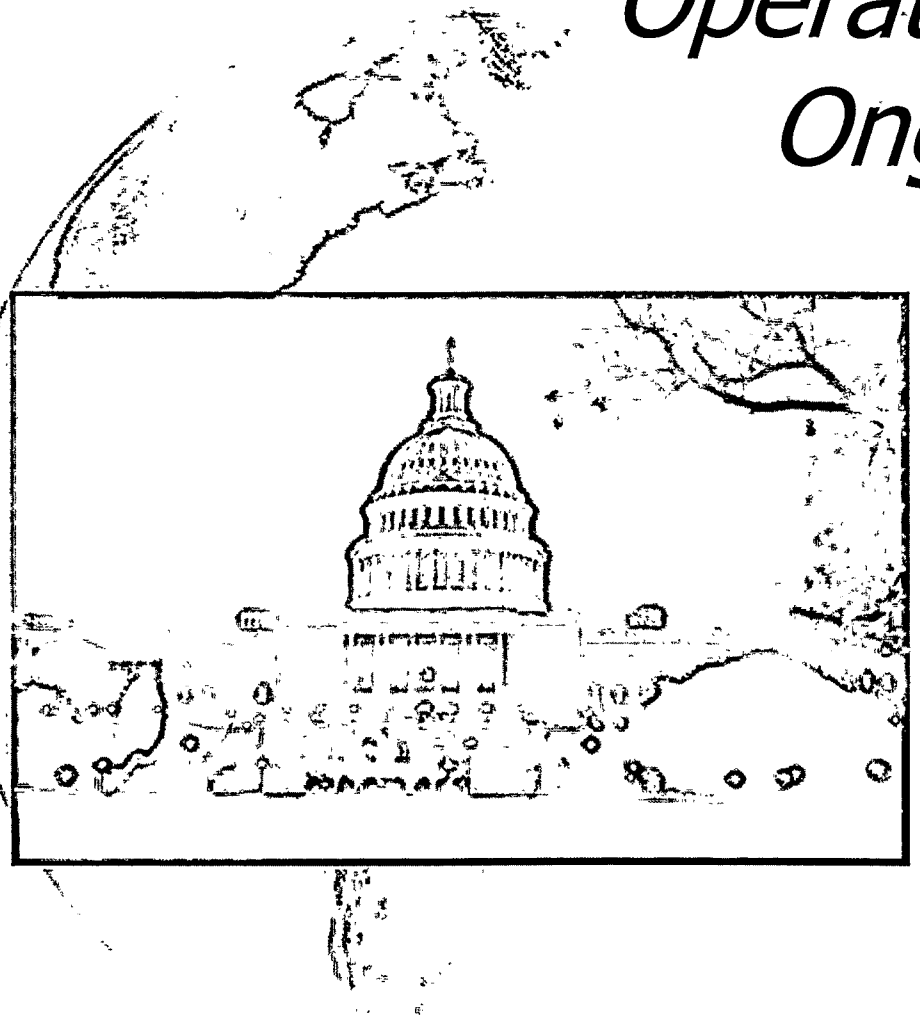
- **First Wave:**
  - **Provide IP addresses to potential victims**
- **Organization confirms it's a victim**
- **Second Wave:**
  - **Provide victim assistance**



Press/Media Strategy

- **Embedded reporters**
- **Public Awareness emphasis**
  - **Wrap successful cases around the campaign**
- **Coordination with Industry**
- **Close coordination with National Press Office**

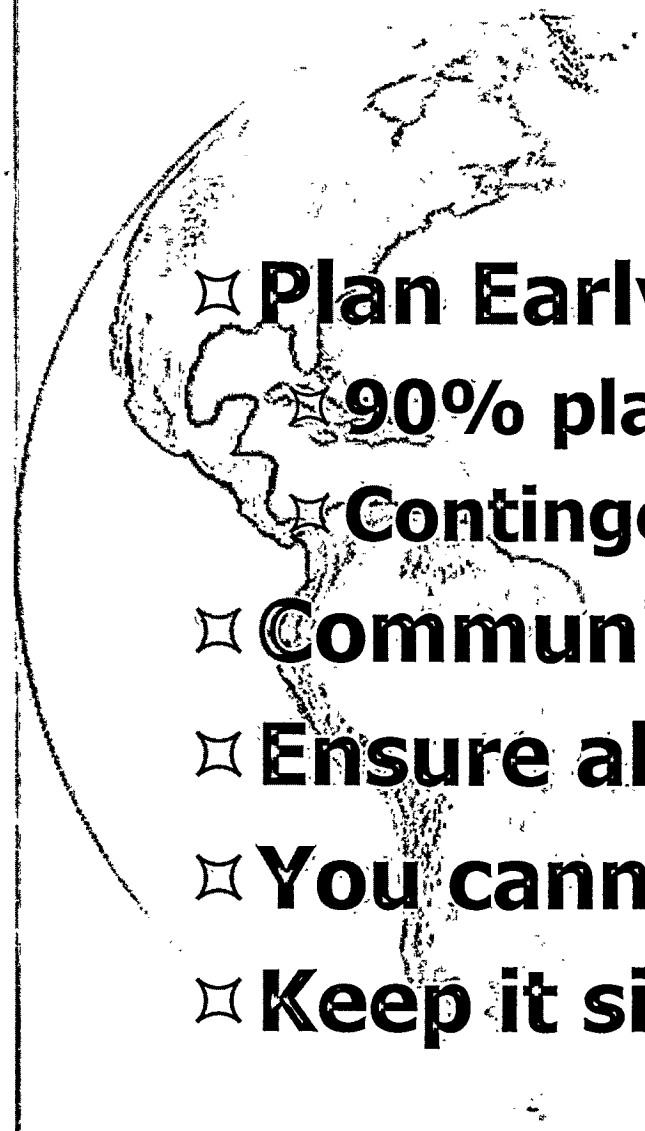
Operation BOT ROAST: Ongoing Operations



- **Continuing:**
  - **Victim Notification**
  - **Malware Analysis**
  - **Data Dissemination**
  - **Investigations**
  - **Prosecution**

Operation BOT ROAST: Round II

- **Two months**
- **Canvassing investigations**
- **Prosecution, Law Enforcement actions**
- **Expedite process**



LESSONS LEARNED

- **Plan Early, Plan Often**
  - **90% planning, 10% Execution**
  - **Contingency plans**
- **Communicate clearly with brevity**
- **Ensure all parties are participating**
- **You cannot please everyone**
- **Keep it simple**

Operation BOT ROAST: Questions?