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Share.
Learn.
Secure.
Capitalizing on
Collective Intelligence

Using Automated Cyber Threat Exchange to Turn the Tide against DDOS

SESSION ID: ANF-R01

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Our Goal:

Create an ecosystem where actionable cyber threat intelligence is automatically shared in real-time enabling real-time defense - the detection, prevention and mitigation of cyber threats such as DDOS before or as they occur

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“Automated”

- Leverage machines to perform routine and tedious tasks
- Free humans to perform analysis and exercise discretion

“Cyber Threat Intelligence”

- What activity are we seeing?
- What threats should I look for?
- Where has this threat been seen?
- What does it do?
- What weaknesses does it exploit?
- Why does it do this?
- Who is responsible for this threat?
- What can I do about it?

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Barriers to Real-time Intelligence

- No standardized language for cyber threat information
- Can vary widely in terms of:
  - Transmission formats
  - Levels of abstraction
  - Degrees of structure
- Difficult to ensure consistent interpretation
- Challenging to automate

Reports

Email

```
10.6.2.34
,TCP,80,0
7:21:22.0
3
```

CSV

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Discussion and Q & A

Backup Slides

But what does
“Automated Cyber Threat Intelligence Sharing”
really mean?

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Sharing

- Sharing information about cyber threats with your sector, partners and others
- Voluntary exchange of appropriately anonymized indicators and other threat data
- Leveraging existing communities of trust
- You choose what to share
- You choose whom to share with

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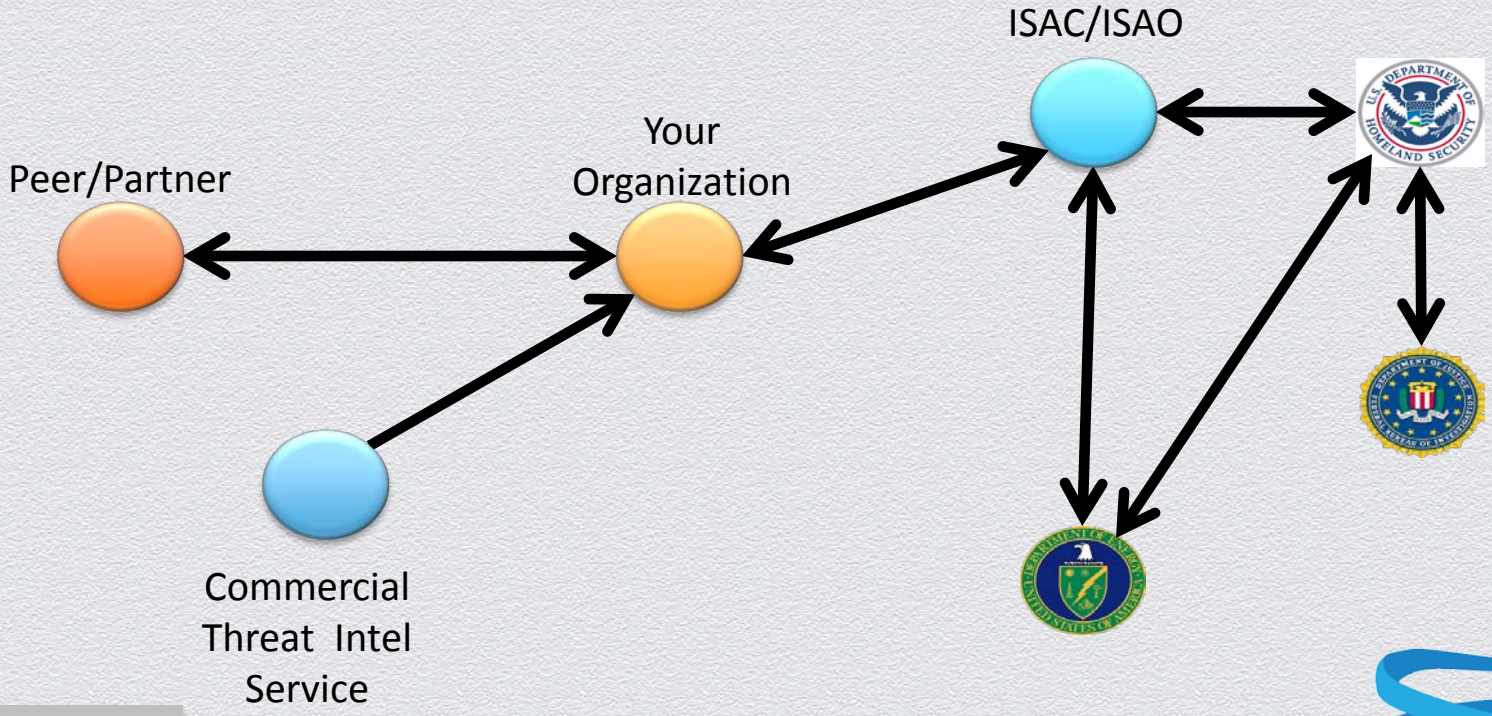
Notional Cyber Indicator Sharing Ecosystem



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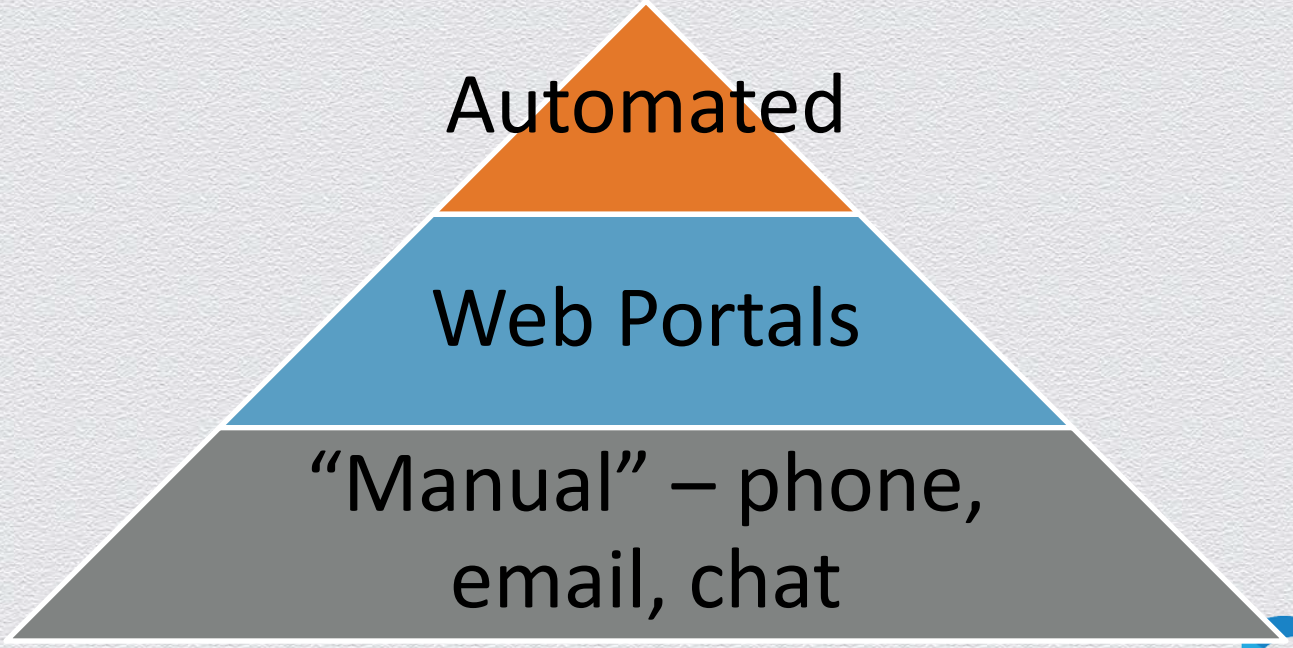
Current Cyber Threat Intelligence Sharing Methods



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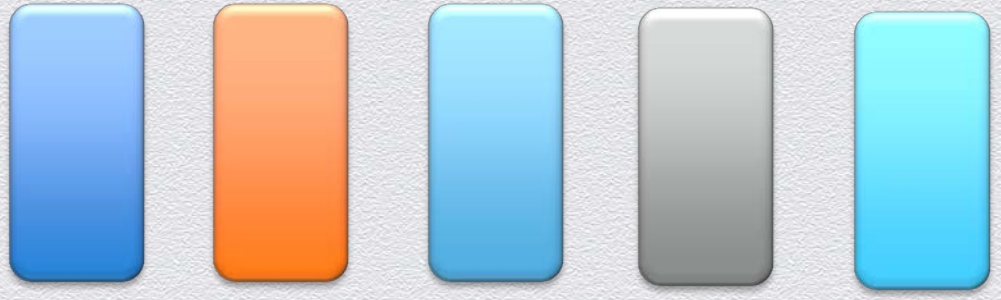
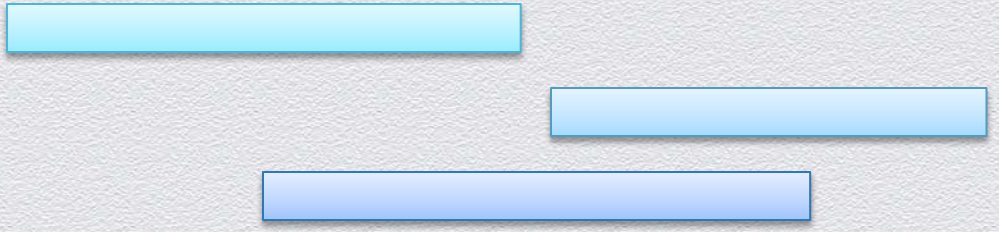
Bridging the Gaps



Organizations / Sectors



Sharing Communities / Programs / Services

Common Format & Transport

STIX TAXII

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