SIEM AND THE ART OF LOG MANAGEMENT

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PRESENTERS

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  - Intellitactics: 2004-2010
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SUMMARY

1 What is SIEM?
- SIEM overview
- The SIS Team

2 How to use SIEM effectively

3 SIEM management considerations
- Self-managed SIEM
- MSSP-managed SIEM

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WHAT IS SIEM?

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SIEM OVERVIEW

Security information and event management

- Collect, parse and normalize logs from various security devices
- Provide content to analyze parsed information
- Backup and long-term retention of logs
- Ensure compliance goals are met

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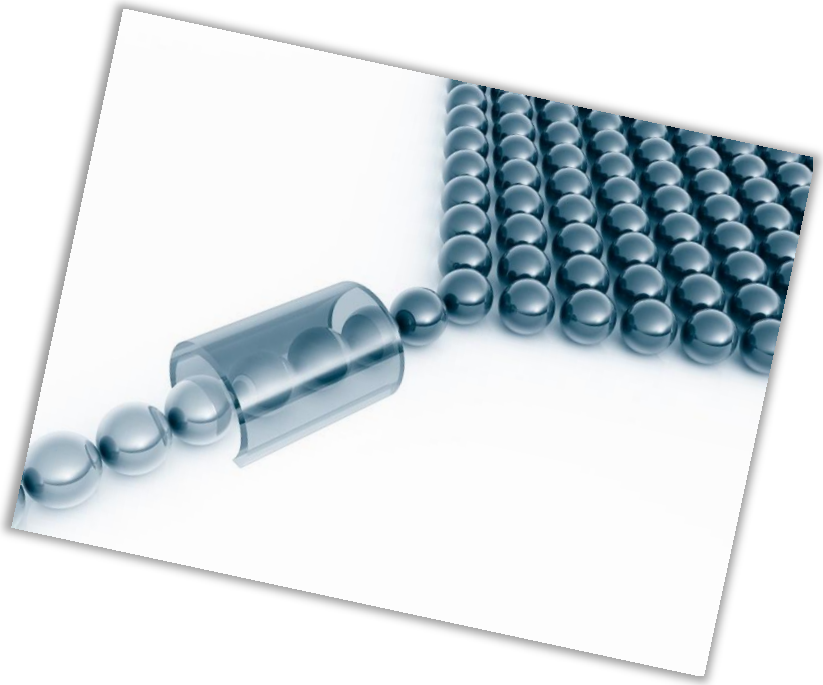
WHERE DOES SIS COME IN?

Security Information Services



- Parsing/Normalization
  - Extract pertinent information
  - Normalize extracted values
  - Categorize/taxonomize events
- Content
  - Reports
  - Charts
  - Event searches
  - Alerts/notifications
  - Categorized lists

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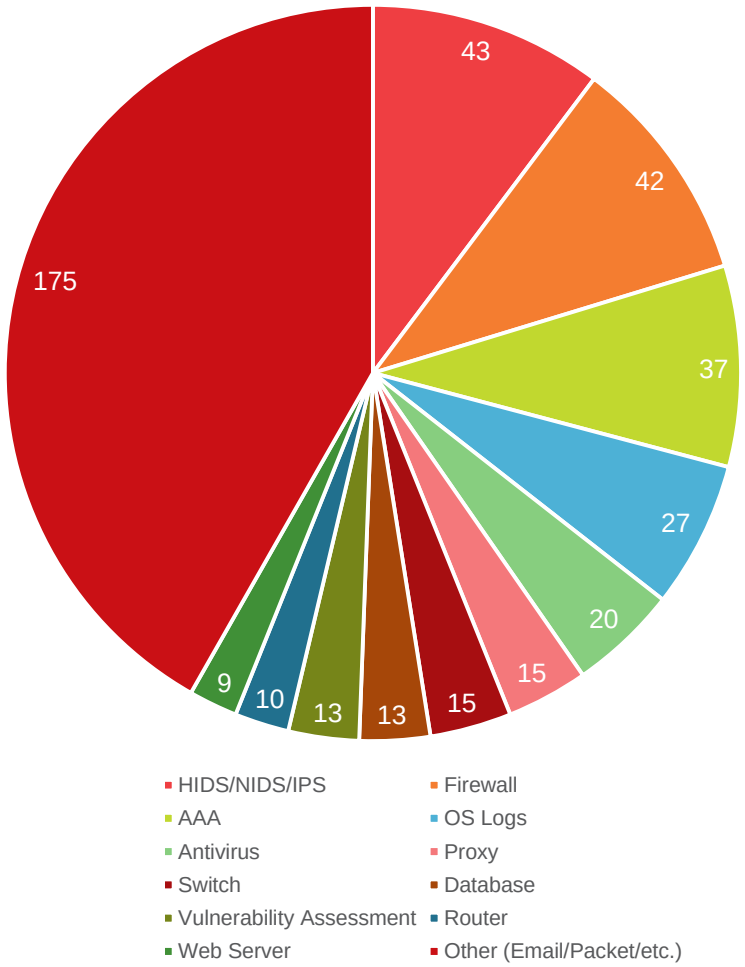
TRUSTWAVE SIEM

What do we support?

- SIEM products
  - SIEM log management appliances
  - SIEM Enterprise
  - MSS Managed SIEM



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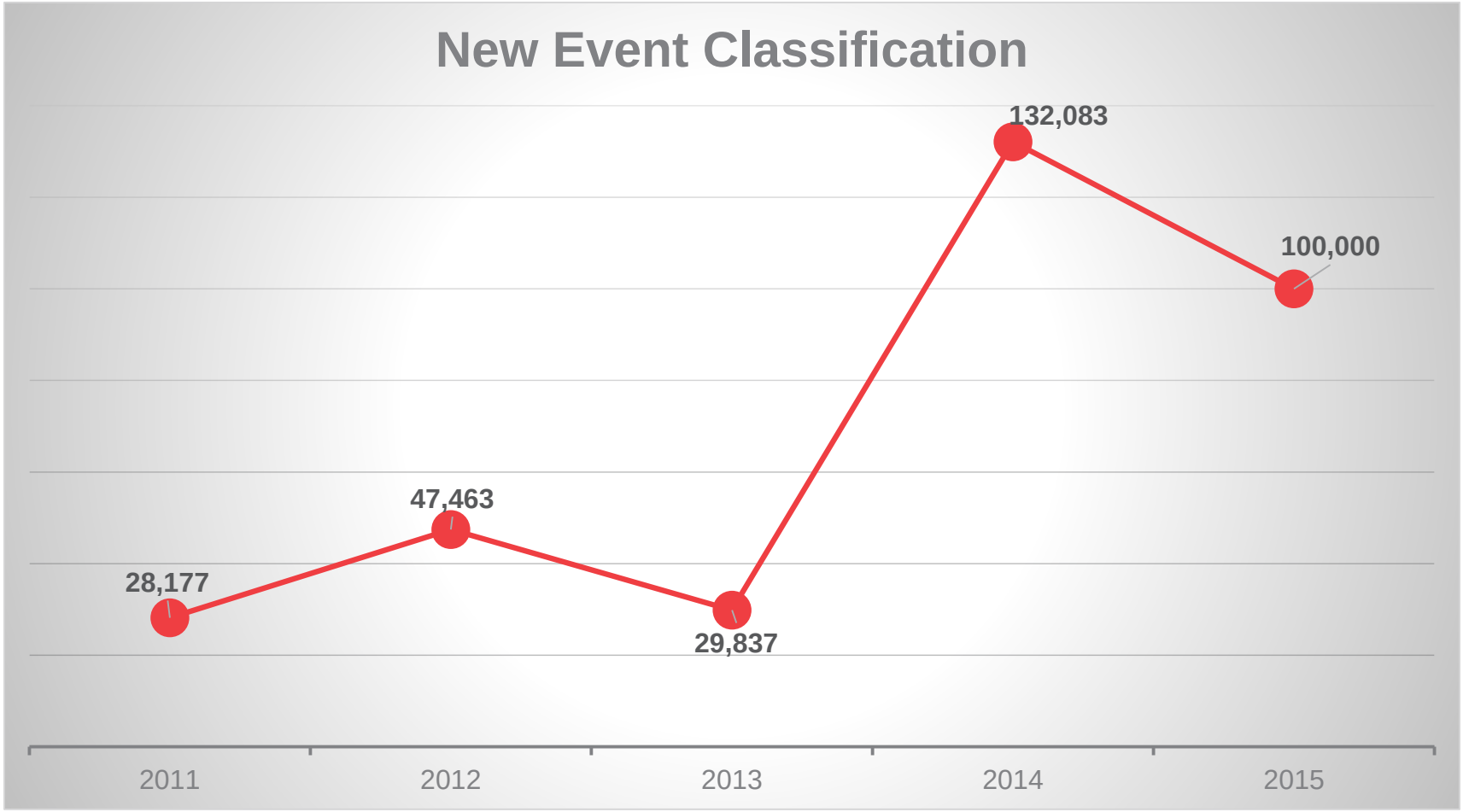
TRUSTWAVE SIEM



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USING SIEM EFFECTIVELY

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GET THE MOST FROM YOUR SIEM

Powerful tool when fully utilized

- Have a security plan
  - Zone your network
  - Decide what and where to monitor
  - Incidence response plan
- Monitoring vs. investigation
  - Trending via reports
  - Alerting on incidents
  - Investigating events

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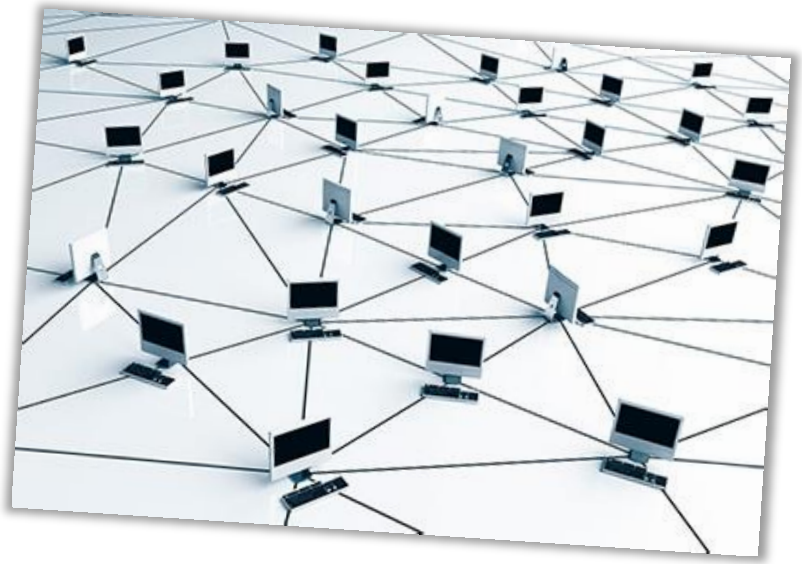
YOUR NETWORK ISN'T STATIC

And your SIEM shouldn't be either

- Infrastructure Changes
  - Hardware replacements
  - Software updates
  - New services offered
- Personnel Factors
  - New employees
  - Elevated permissions
- External Factors
  - Malware threats
  - Unforeseen attacks



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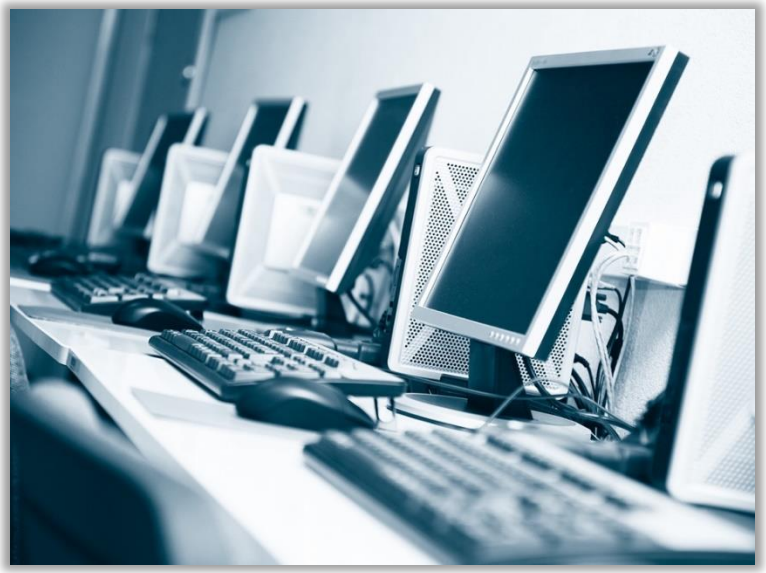
SPEC YOUR HARDWARE

Requirements may change over time

- Storage
  - Average events per day
  - Retention policy
- Processing Power
  - Events per second
  - Alerting timeliness
- High Availability
  - Failover
  - Data Backup



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SELF-MANAGED SIEM

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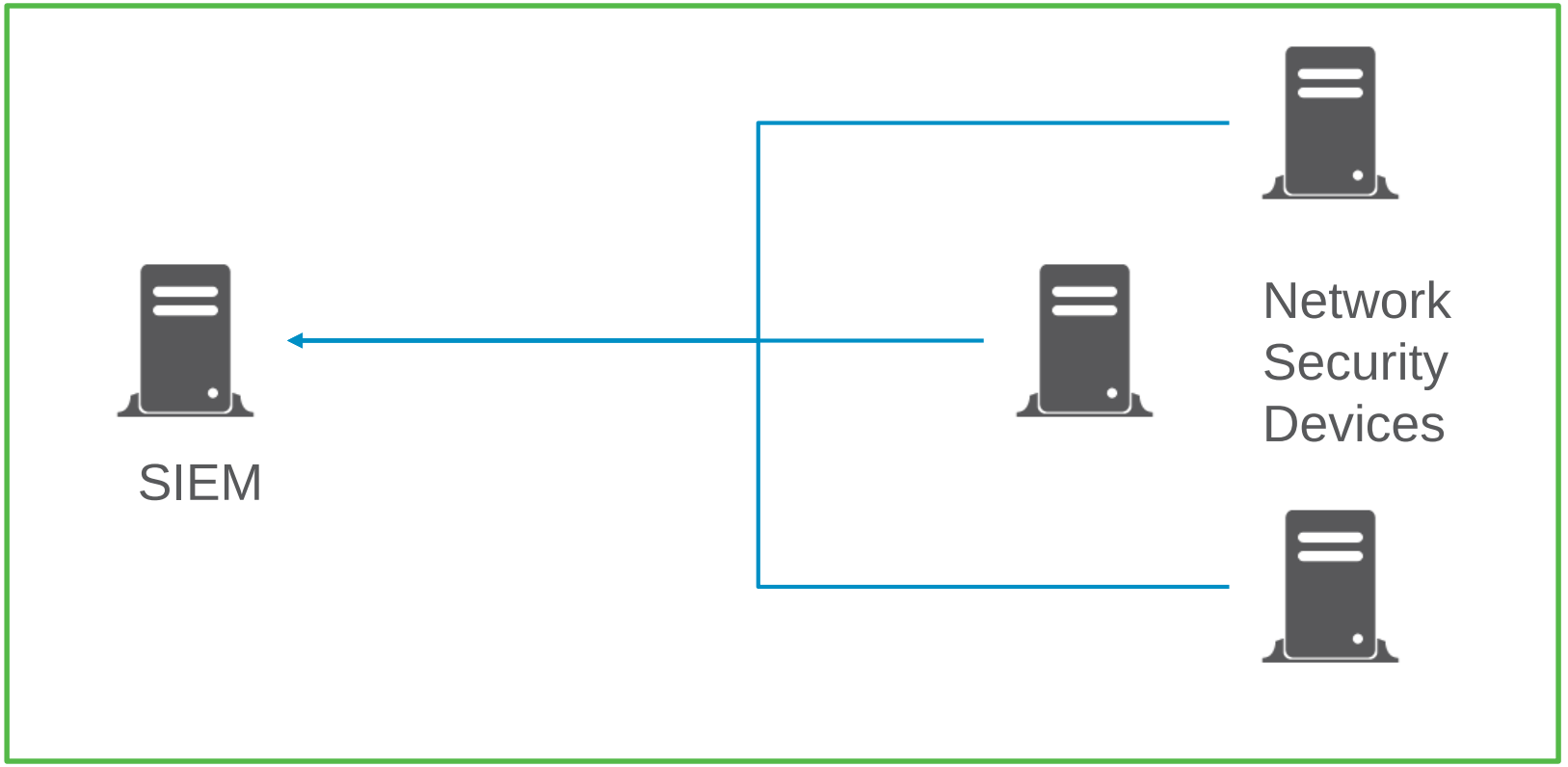
SELF-MANAGED SIEM

Monitor your own network



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CHALLENGES OF SELF-MANAGED SIEM

- Building a team
  - Finding and retaining knowledgeable people
- Hardware cost
  - Initial build and ongoing maintenance
- Ramp-up time
  - Time from inception to production
- Using the SIEM
  - Configuration and monitoring

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BENEFITS OF SELF-MANAGED SIEM

- You are in control
  - Only limited by your own resources
- Data doesn't leave your site
  - You maintain ownership of your data
- Retain knowledge of your network
  - Learn your weak-points
- React quicker
  - Shorter communication times between onsite resources

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MSSP-MANAGED SIEM

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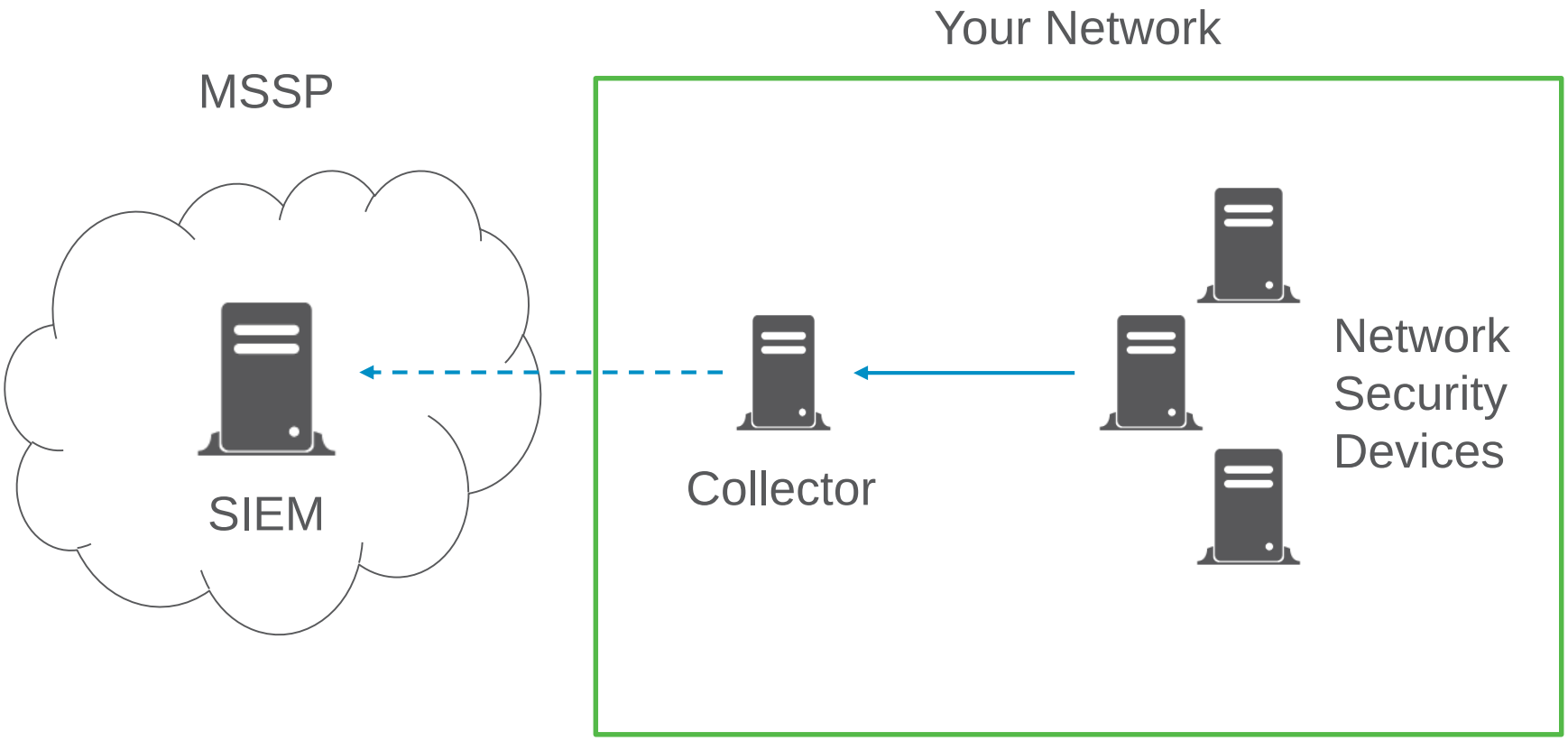
MSSP-MANAGED SIEM

Third-party monitoring



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CHALLENGES OF MSSP-MANAGED SIEM

- Externalizing your data
  - Must trust the MSSP with your logs
  - Geographic restrictions
- Reliance on outside intelligence
  - Potentially less involvement with your environment
- Time to alerts
  - More communication channels
- More generalized support
  - Potentially less customization options

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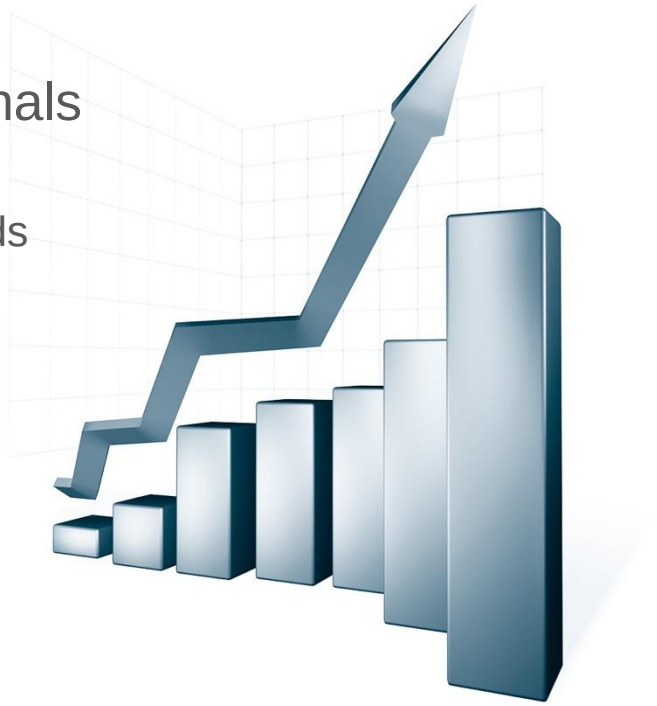
BENEFITS OF MSSP-MANAGED SIEM

- Monitored by knowledgeable professionals
  - Recruiting and training not required
  - Observe and respond to global security trends
- Off-site backup of data
  - Your logs are protected off-site
- Latest SIEM technology
  - MSSP's tend to use newest technologies
- Time to production
  - Standardized configuration procedures



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THANK YOU

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