



Chapter

Extremely Large WAF Installations

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Overview

- How big is 'extremely large'?
- Architecture
- Deployment
- Management

How big is 'extremely large'?

- Scenario 1:
 - One Application 100, 1.000 or 1.000.000 of web servers
- Scenario 2:
 - Many different applications
 - All outsourced
 - Many different architectures and a lot different Web Server setup's
- Scenario 'NIGHTMARE':
 - Scenario 1 + 2

Architecture

- Hardware vs. Software
 - Hardware: Fault Tolerance? Scalability?
 - Software: Deployment? Upgrades?
- Across data centers
- One big company, lots of outsourced Systems

Architecture

- Hardware vs. Software
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Deployment

- 10s of web servers?
 - Lets write a script!
- 10.000s of web servers?
 - No Problem lets write a script!
 - NOOOOO!!!!!!
 - Better, lets use a deployment system
- Everything outsourced to different providers?
 - Let them do the job!

Management

- Multi-Tiered Management
 - Distributed Cluster or Application Instances
 - Local Policy and Rule Management governed by central system Policies and Rules
 - Local Monitoring and Statistics
 - Global Policy and Rule settings
 - Global Monitoring and Statistics

Where are the problems?

- Policy roll-out speed
- Think before logging!!!
- Connection between 'Application Defense Center' and Web Servers (Clusters) is not always 'online'
- Deal with failing communication paths
- Client - Server Model for communication between systems NOT an option

Questions?

- Questions
- Discussion

