GEVIN

Effectively Leveraging Machine Data across Security, IT Ops and Business Analytics

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Keys to Successful Machine Data Implementation



Administrate

Automate





An identified, organizational business need sponsored by senior corporate leadership is paramount to any successful Big Data project.



Premise: Sponsored Business Initiative





Machine Data: Aggregation



Machine Data: Aggregation

- Challenges of quantifying data sources
- Effective aggregation requirements
- Gartner's big data "three V's"
 - High-volume
 - High Velocity
 - High Variety

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Machine Data: Aggregation

- Prioritizing data or "Drinking from the Fire Hose"
- Focus on the "why" of collection
- Link disparate data to well defined use cases
- Maximize time to ROI and minimize cost





Machine Data: Reliability



Machine Data: Reliability

- Are your data sources reliable and accurate
 - Incorrect information
 - Duplicate information
 - Contradictory information
- Poor data produces poor analytics





Machine Data: Security



Machine Data: Security

- Big data deployments are often focused on functionality and performance, not security
- The larger the data store, the bigger the target
- As an underlying technology stack becomes more prevalent, compromise attempts will sharply increase

Machine Data: Security

- Areas of Focus:
 - Distributed frameworks
 - Non-relational data stores
 - Storage
 - Endpoints
 - Real-time security/compliance tools
 - Access controls
 - Data mining interfaces

- Some of the most practical challenges are in the Access Control Space:
 - Layering role based access to data and analytics
 - All the data is in one place where all users gather analytics
 - Restricting access by role is rarely an integral function of these platforms



Machine Data: Analytics



Machine Data: Analytics

- Now that you have the data, watch out...
 - Pre-canned modules and analytics packages
 - Organic growth of consumption and analytic services
 - Unchecked growth can impact system capacity and stability



Machine Data: Analytics

- Data always grows in size and complexity
- Must regularly evaluate the product space as it evolves
- Avoid making architectural mistakes that limit growth and scale in the future

- Advances in Big Data technologies
 - Mature cloud-based offerings
 - Integration of AI capabilities
 - More robust data lake system management
 - Agnosticism of big data sources
 - "One pane of glass"
 - Management of Big Data systems
 - Analytics services across myriad Big Data sources

Thank You

