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Leverage Spotfire 7.5 to Scale Visual Data Discovery

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Agenda

1. Performance Evaluation - Spotfire 7.6
2. Architecture Changes in Spotfire 7.5 Onwards
3. Spotfire 7.5 and Spotfire 7.6 Features
4. Learn More
Spotfire 7.6 Performance Evaluation

Users on WebPlayer vs. Time Passed

Color by Version / Setup
- 7.0, 1 webplayer
- 7.6, 1 webplayer
- 7.6, 2 webplayers
- 7.6, 3 webplayers
- 7.6, 5 webplayers
- 7.6, 10 webplayers

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Architecture Changes in Spotfire 7.5
Basic Spotfire 7.5 Environment
Node – New Component

• Manage service/application processes
• Service process neutral

• Provide ability to:
  • Deploy
  • Configure
  • Manage
  • Run Services
  • Horizontal Scaling

• Multiple services running on one node
Basic Spotfire 7.5 Environment

Security and Routing Tier

Worker Service Tier

Data Tier

Corporate LDAP
Spotfire Library & Audit Database
Data Sources

Web Player 1
Automation Service 1
Automation Service 2

Spotfire Data Engine

Web Player 1
Automation Service 1
Web Player 2

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Basic Spotfire 7.5 Environment

Client Tier
- Spotfire Analyst
- Spotfire Business Author
- iOS
- Schedulers and Automation Services
- Web Service Clients

Security and Routing Tier
- Spotfire Servers

Worker Service Tier
- Node: Web Player 1
  - Automation Service 1
  - Automation Service 2

Data Tier
- Corporate LDAP
- Spotfire Library & Audit Database
- Data Sources

Legend
- Authentication over HTTP(S)
- JDBC (Metadata Only)
- LDAP(S)
- HTTPS/TLS
Routing Rules and Capacity Management

1. User with active session will route to the same instance

2. Default routing...
   1. If analysis is open by a user and a new user request the same analysis, the new user will be directed to the same Web Player Instance
   2. Else, analysis is opened on the Web Player Instance that is least busy

3. Routing rules – an instruction that specifies direction to where a user, group, or analysis file is directed to a resource pool

4. Resource pools – a named set of one or more service instances
Scenarios for Routing rules

• **Users/Groups Scenario**
  - Assign users or a group of users to resource pools
  - Create routing rules for Executive users

• **Analysis File Scenario**
  - File needs a machine that has more capacity
Benefits - Spotfire 7.5 Onwards

• Single point of entry

• Centralized admin console
  • Improve Configuration and Installation of services
  • Logging and monitoring
  • Machine information
  • Schedule update improvements
  • Web player and automation services

• Built in routing, scaling, capacity management

• Improved user workflow

• Scaling and Performance

• No dependency on Microsoft Internet Information Services (IIS)
Benefits - Centralized Web-based Administrative Console
Benefits - Centralized Control over Services
Common Layout in the New Administration UI
Common Layout in the New Administration UI
Common Layout in the New Administration UI

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Notifications in the New Administration UI
### Notifications

<table>
<thead>
<tr>
<th>Level</th>
<th>Message</th>
<th>Timestamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOTICE</td>
<td>No Node Managers have been authorized.</td>
<td>2016-04-20 14:40:11</td>
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</tbody>
</table>
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