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vCampus Live! 2013

Indexed Search for the PI System

Presented by **Chad Chisholm & Divya Anupindi**

Agenda

- What is this?
- Why build this?
- How does it work? `//demos`
- What's next? `//TODO: ...`
- When can we have it?
- How you can help

What is this?



What is this?

- We are building a **service** that collects configuration information from across the PI System to **enable developers** to build a **great search experience**.

Why build this?



Why build Indexed Search for PI

- Enhancing search experience in **PI client applications**
- Empowering **partners** to build applications with a powerful search experiences

Faster queries

- Results faster than existing SDK “Find...” methods
- Scalable to “meter scale”

Higher quality results

- Return most-used objects first
- Highlight search terms in results

Easier to use

- Search an entire PI System with one call

Internal adoption

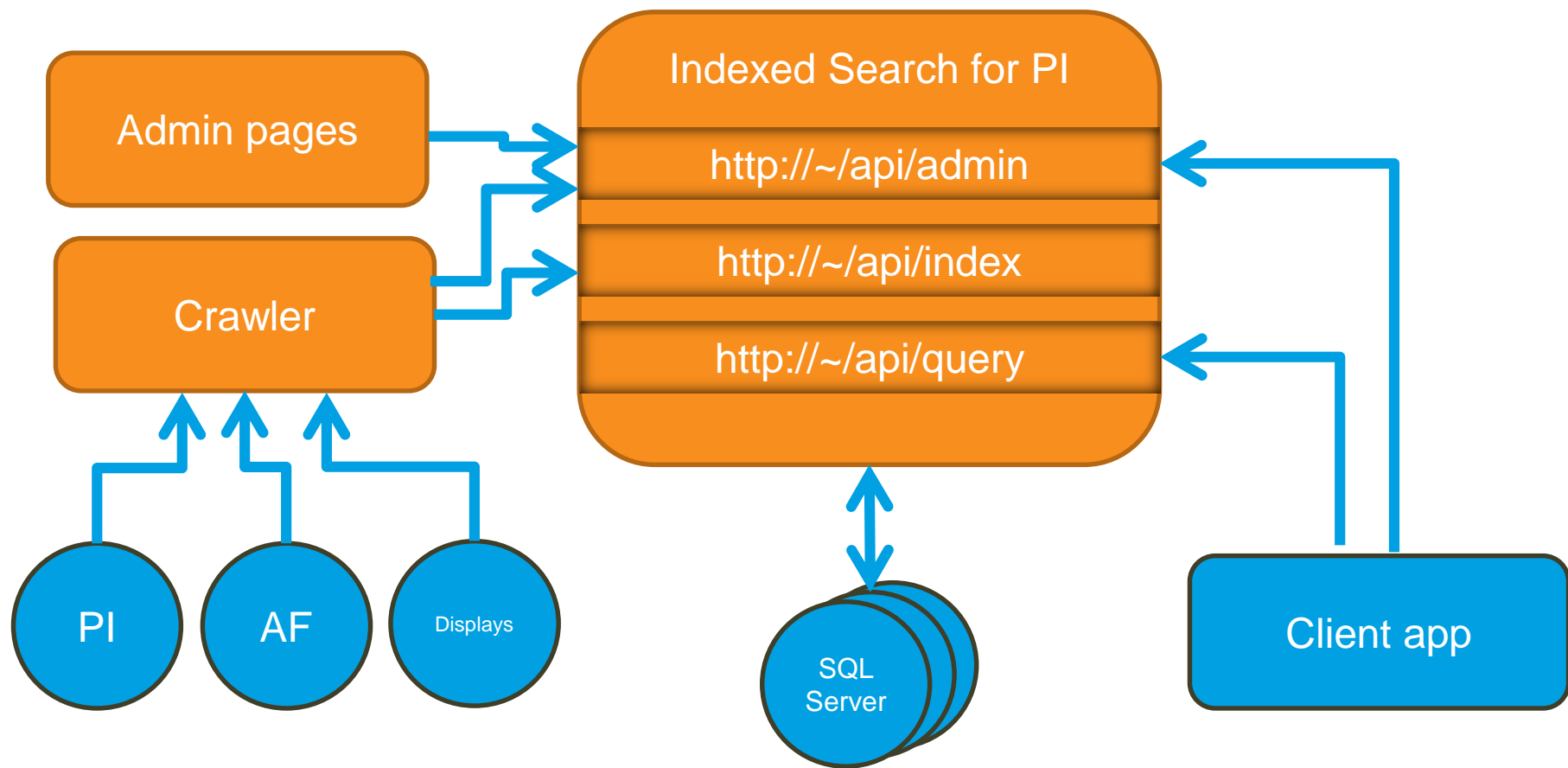
- PI Coresight searches will be faster
- PI DataLink searches will be faster
 - See them at vCL! (**site talk**)

How is this different from PI SMT?

- Key-value searches enhanced
- Find objects by many more fields

How does it work?





Crawler Service

- Windows service
- Flexible deployment
- Monitor changes in your PI System



Listing Indexed Databases

- Build a simple html page
- Read a list of indexed databases
- Add them to a list box

Simple Keyword Query

- Read keyword query from user input
- Read scope from list box
- Call /api/query endpoint
- Put results in a data table

Autocomplete

- Enhance existing query textbox to use jqueryui autocomplete
- Call /api/autocomplete endpoint with user-entered term

Explicit Filter Query

- Add 2 text boxes: Filter Key and Filter Value
- Update the query method to use filters as well

What's next?



Futures

- Access control
- Display search
- Paging
- Projection
- Sorting by popularity

When can we have it?



Timeline

- First half 2014

How you can help



Feedback

- Hackathon participants used Indexed Search
- Hands-on Lab: Developing Against the RESTful Surface
- Send feedback to our PM:
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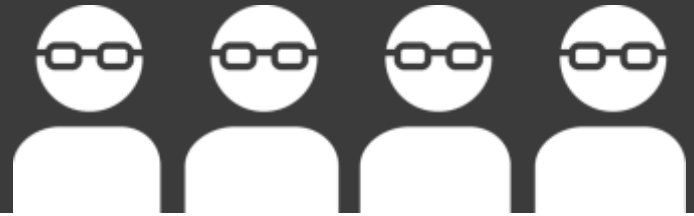


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