

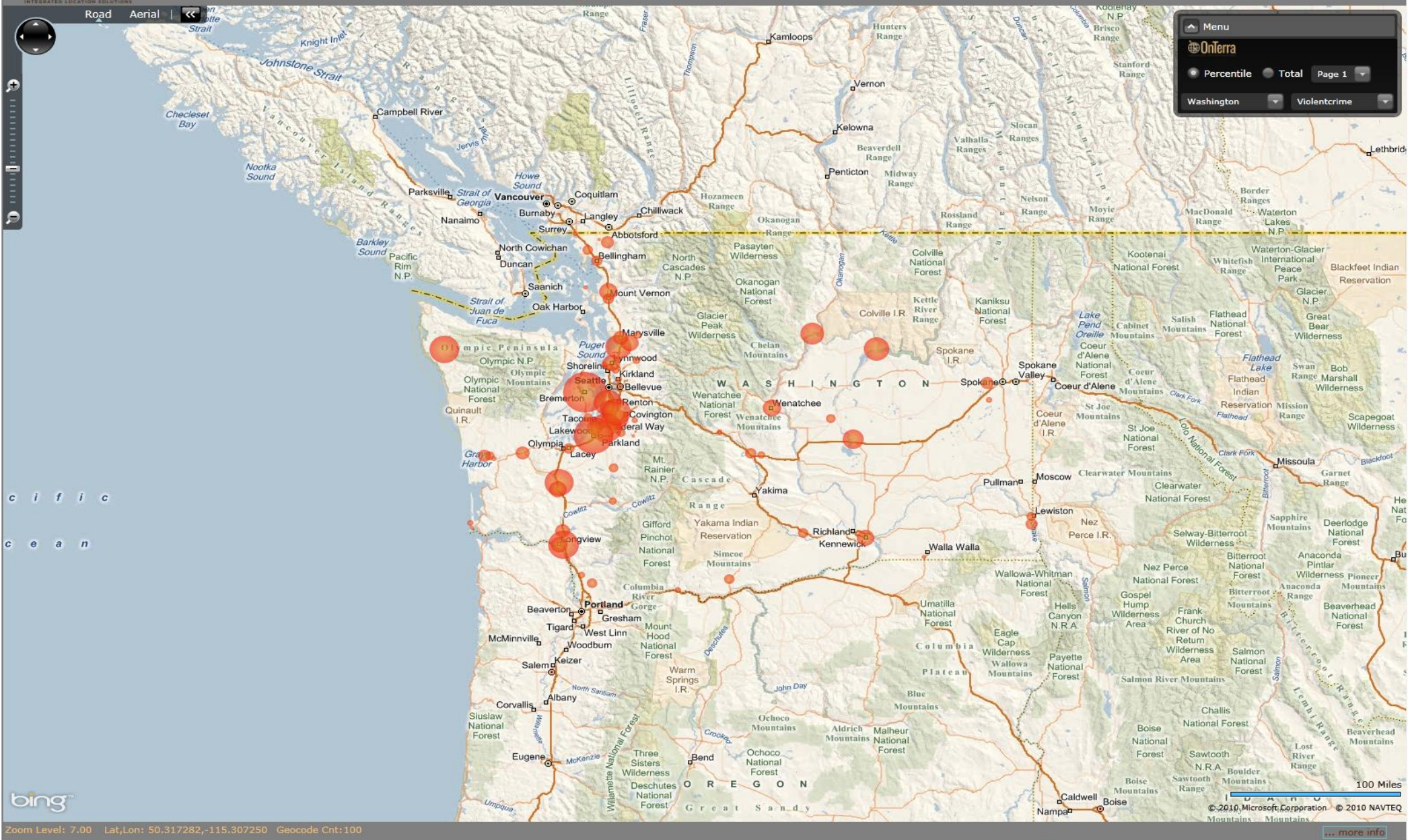
WINDOWS AZURE MARKETPLACE DATAMARKET OVERVIEW

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OnTerra Dallas Data Sample - USData.gov Crime Statistics



Why DataMarket?

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Exploring DataMarket

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DataMarket APIs

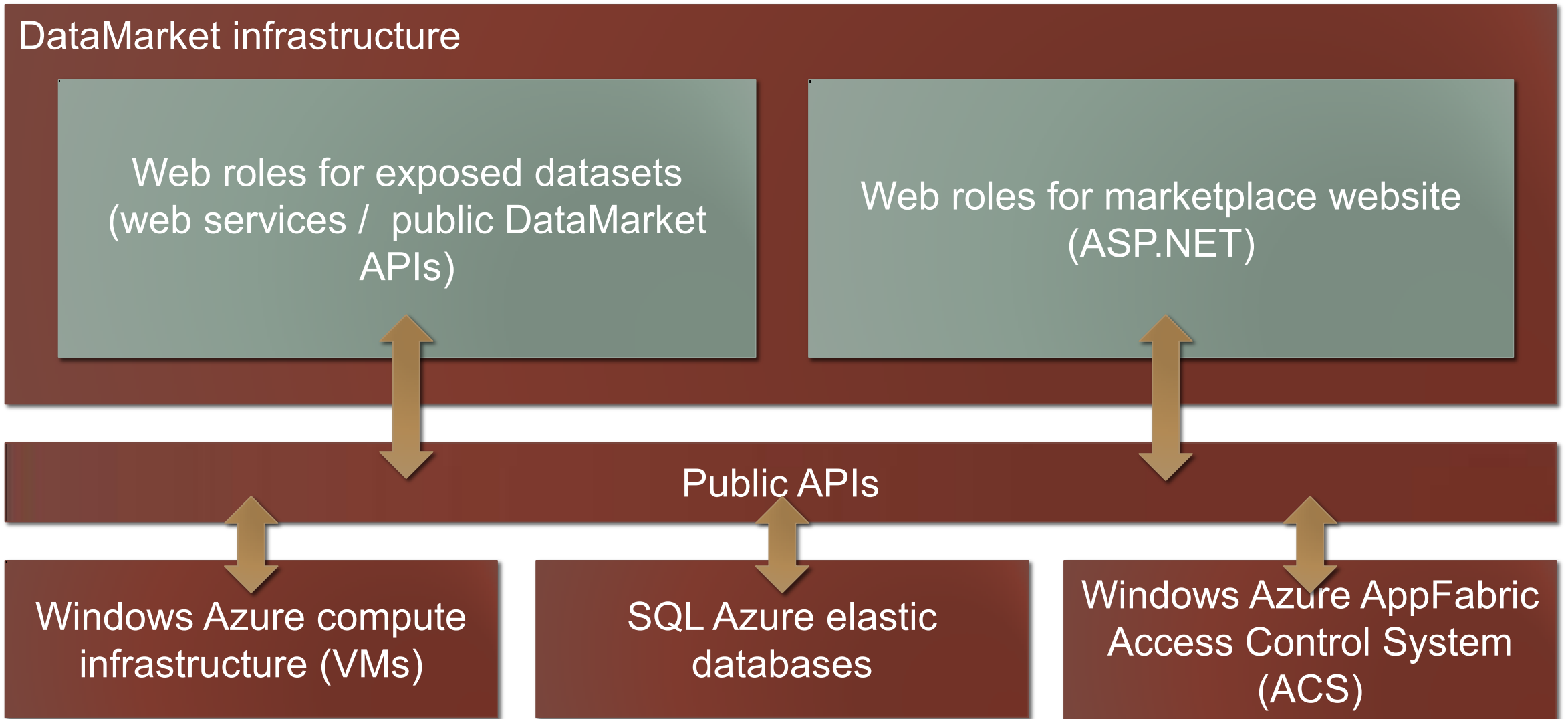
- OData-based APIs for access to the service
 - Query language over HTTP
 - Standardized metadata
 - Server-based filtering and sorting
 - Pagination for large result sets
 - Open standard (www.odata.org)
 - Support for a lot of languages, including C#, VB.NET, PHP, Objective C, etc.
 - ATOM feed as response
- Authentication using DataMarket account key
 - HTTP basic authentication
 - Secured through SSL

Consuming a DataMarket Dataset

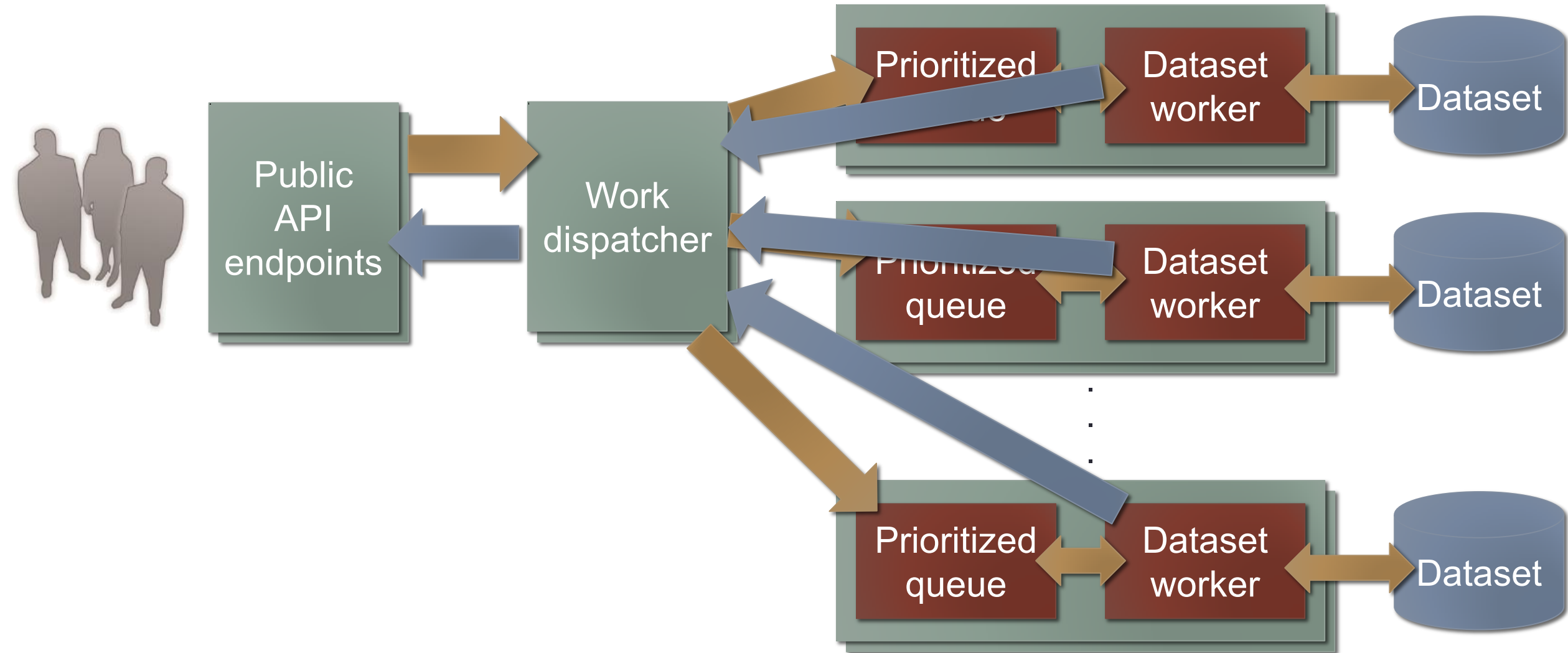
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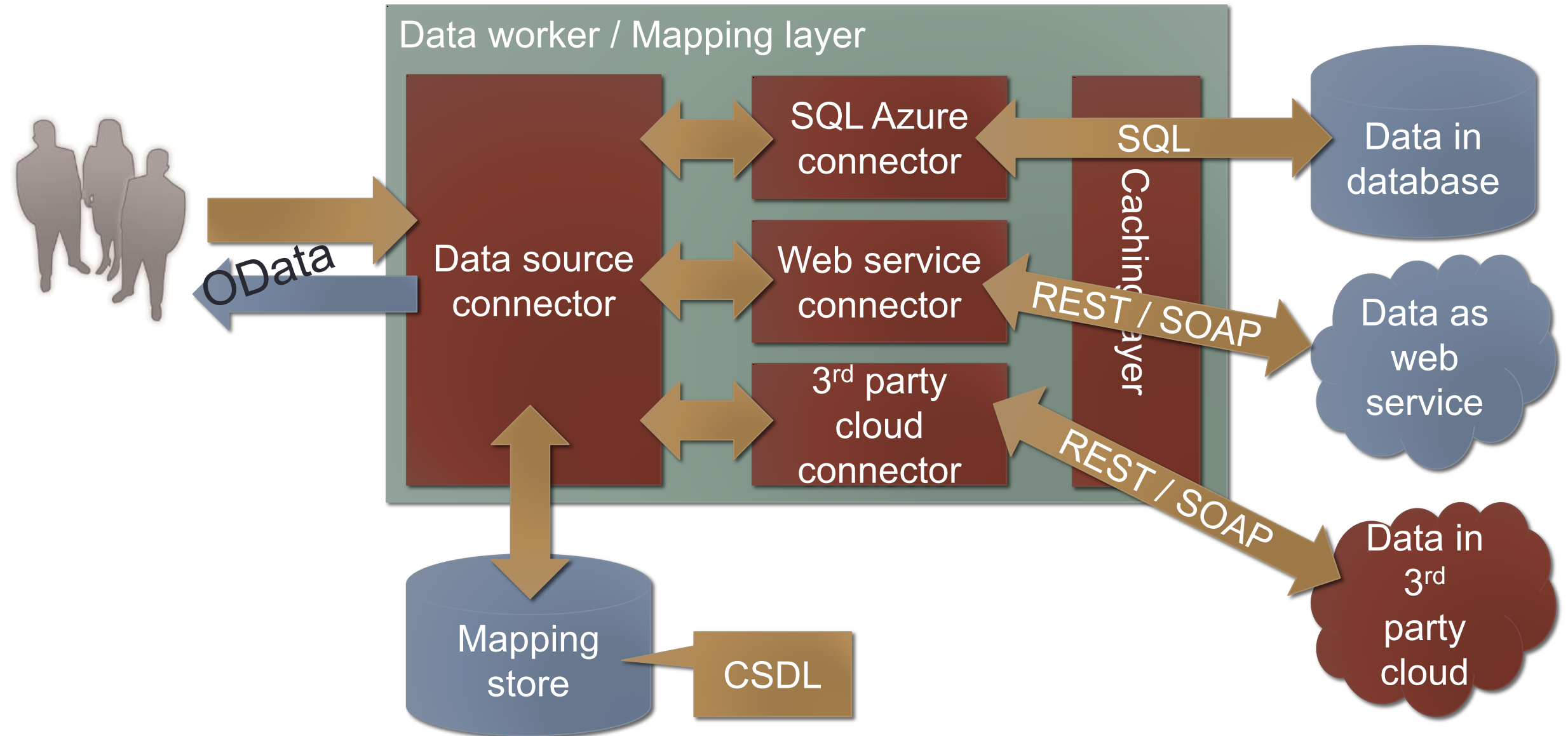
DataMarket Architecture



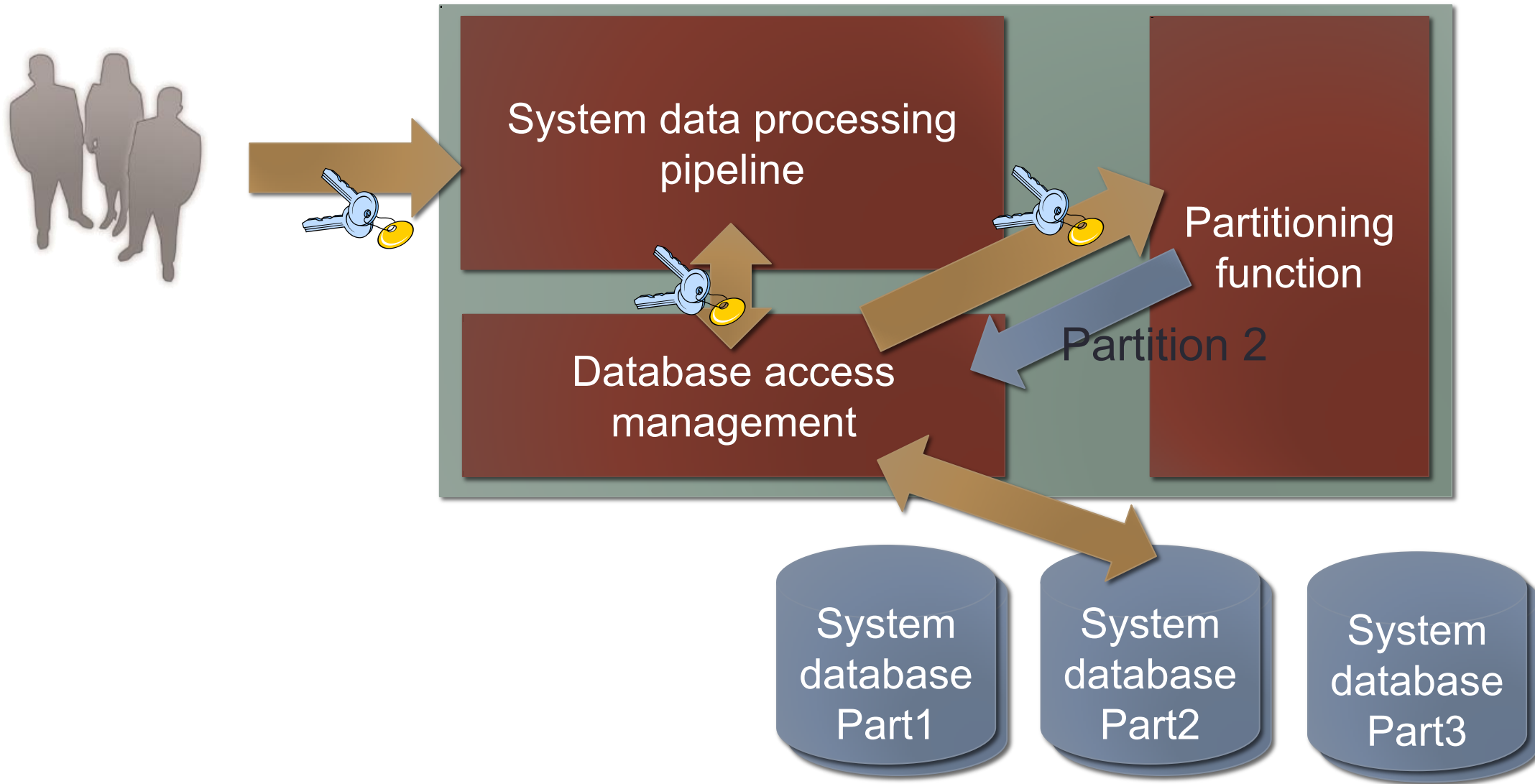
Processing user requests



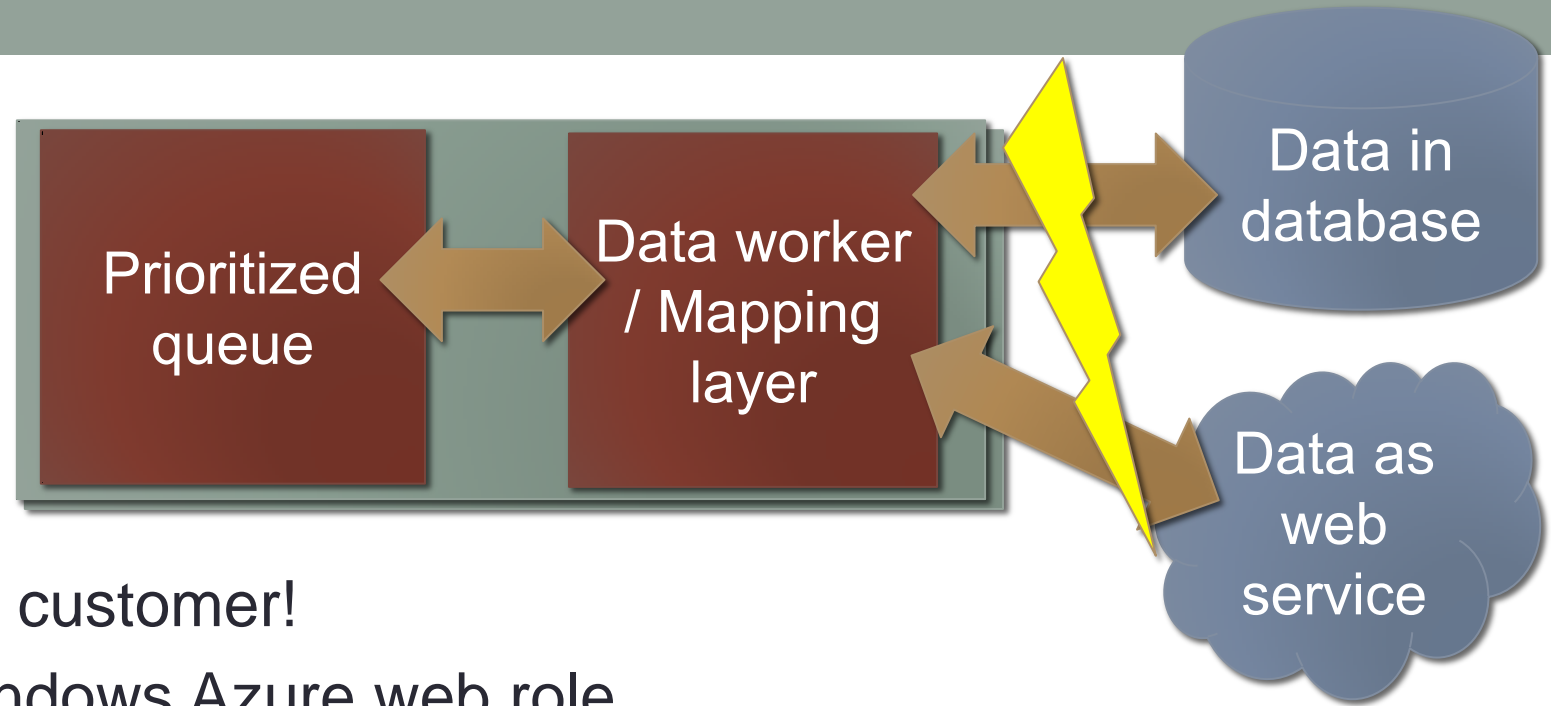
Reaching out to content provider's data



Scaling out user databases

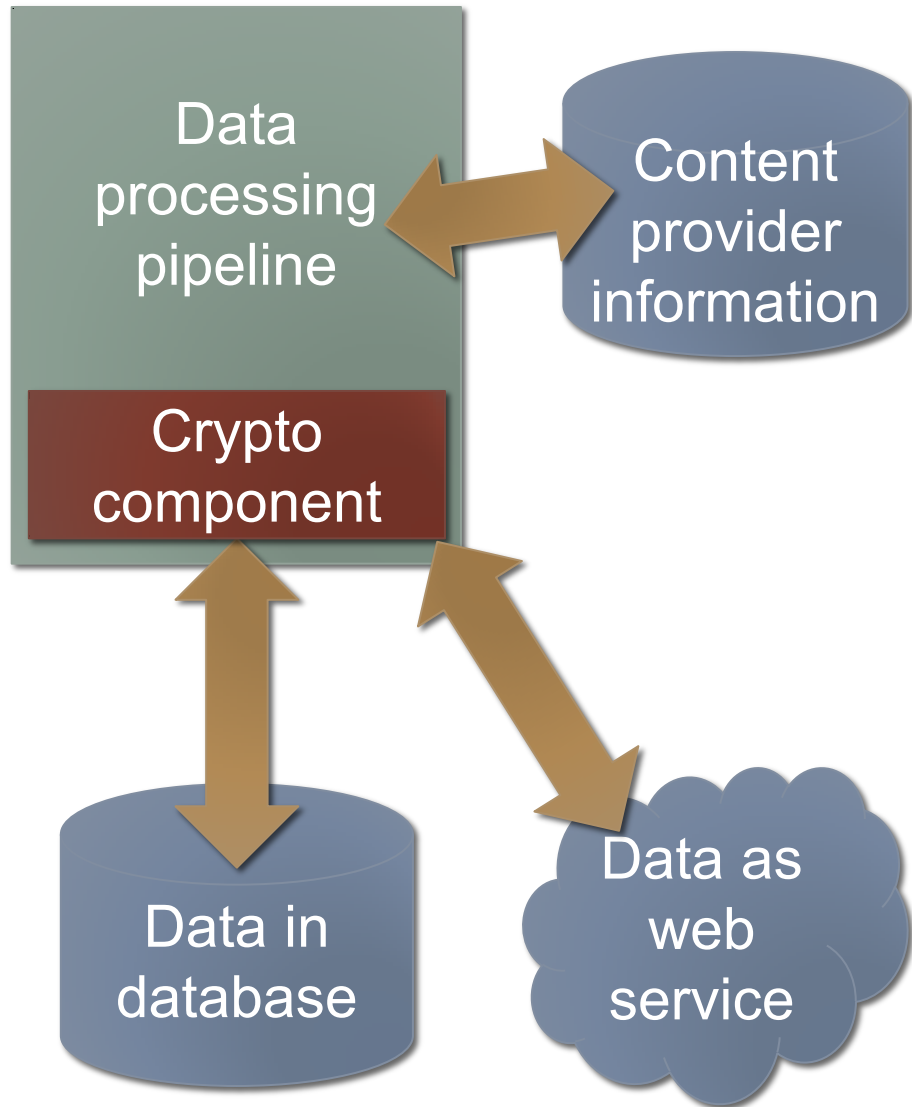


Monitoring



- Discover issues before customer!
- Build monitoring as Windows Azure web role
 - Deployed to multiple data centers (leverage Azure infrastructure)
 - Executes sample queries on regular base
 - Stores result in Windows Azure Table
- Logs transferred on a regular basis to SQL Azure
 - Reporting services to create reports
 - Alerting on condition matching

Securing high value data



- **Problem:** how to secure 3rd party connection information?
- **Solution:** Certificates!
 - Windows Azure has dedicated certificate pipeline
 - Only small number of people need access to them
- Connection information encrypted with final key during publication process
- Certificates to decrypt connection information on the fly
- Connecting to data sources through SSL

So why did we do this?

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How do I buy it?

- Free and commercial datasets
- Content provider sets the price
- Two supported subscription models
 - Unlimited number of queries per month
 - Limited number of queries per month and minute
- Credit card payment

Publishing data in DataMarket

- You are in control of the
 - data
 - price
 - terms of use
- Easy publishing - we create the consumer facing APIs
 - Connect to SQL Azure
 - Wrap existing web services
- Receive periodic reports and payouts

Discover DataMarket datasets from Office

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Questions?