

Azure Search

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Agenda

- Overview
- Creating Indexes
- Searching
- Advanced Features
- Pricing
- Learn more



Search is a Pain

- Complex
- Requires constant rebuilding
- Requires constant tuning
- Needs to be industry / site / context specific
- Difficult to predict load
- If it doesn't work, you'll know really fast

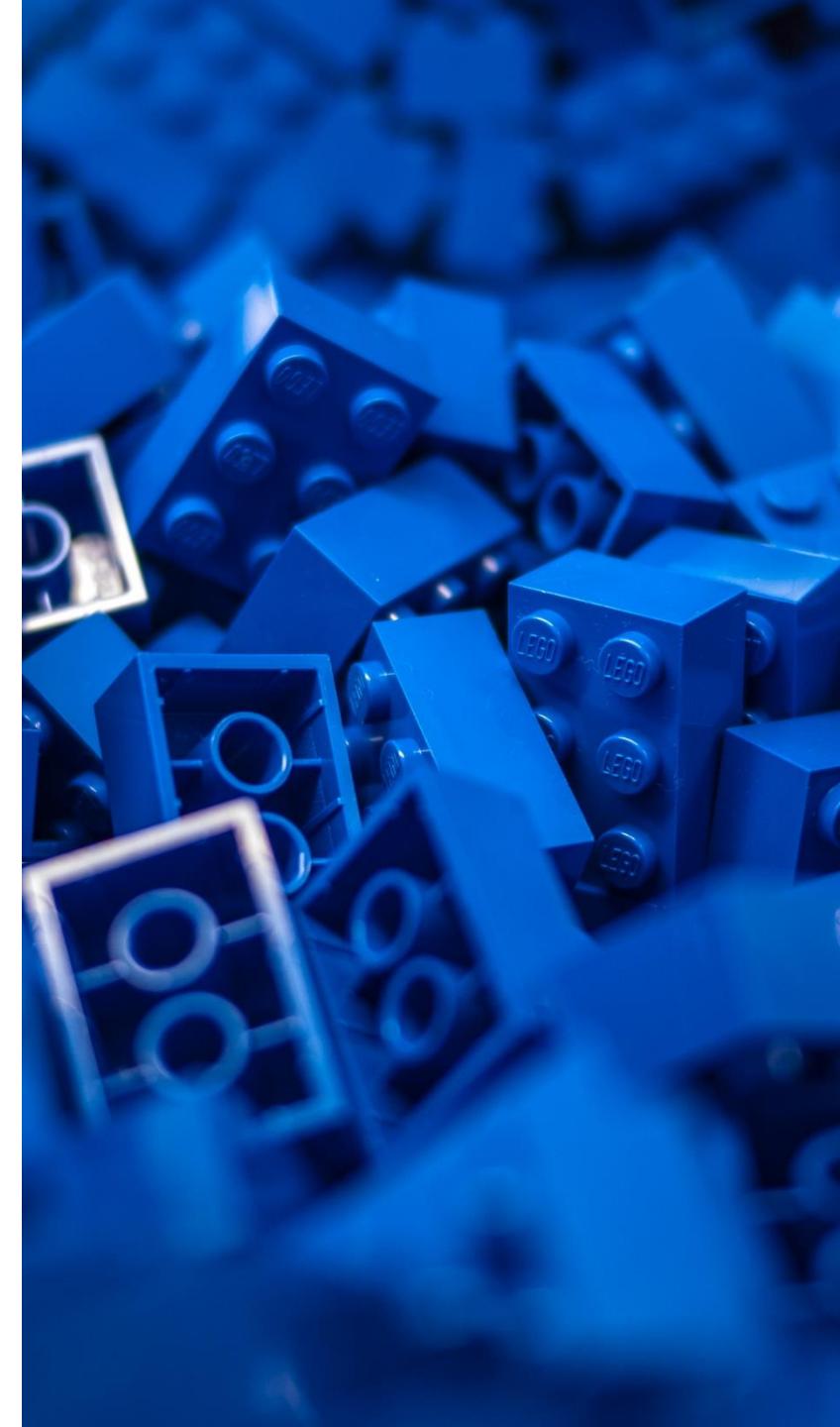


Azure Search

- PaaS Platform
- Released in 2014
- HTTPS / API-only service
 - API Keys
- Cloud hosted indexes
- Low administration
 - All systems maintained by Microsoft
- Plans
 - Free – 10K Documents / 3 Indexes
 - Standard – 15M Documents / 50 Indexes
- Regions
 - 14 Data Centers
- Scalable
 - Multiple tiers
 - Configurable via Preview portal

Creating Indexes

- Data must be hosted in Azure
- Push / Pull Model
 - Push – SDK / REST APIs
 - Pull = Indexers (SQL Database / VM SQL / Document DB)
- Can have up to 1000 fields in each index
- Field Properties
 - Key
 - Searchable
 - Sortable
 - Filterable
 - Retrievable
 - Suggestions



Searching

- Single index only
- Full-text queries
 - Prefix matching
- Syntax
 - Odata syntax for Boolean
 - Simple query syntax for full-text
- External / Internal fields
- Search=* (all fields) / Specific columns
- Scoring
 - Scoring Profiles
- Azure Search SDK

Advanced Features

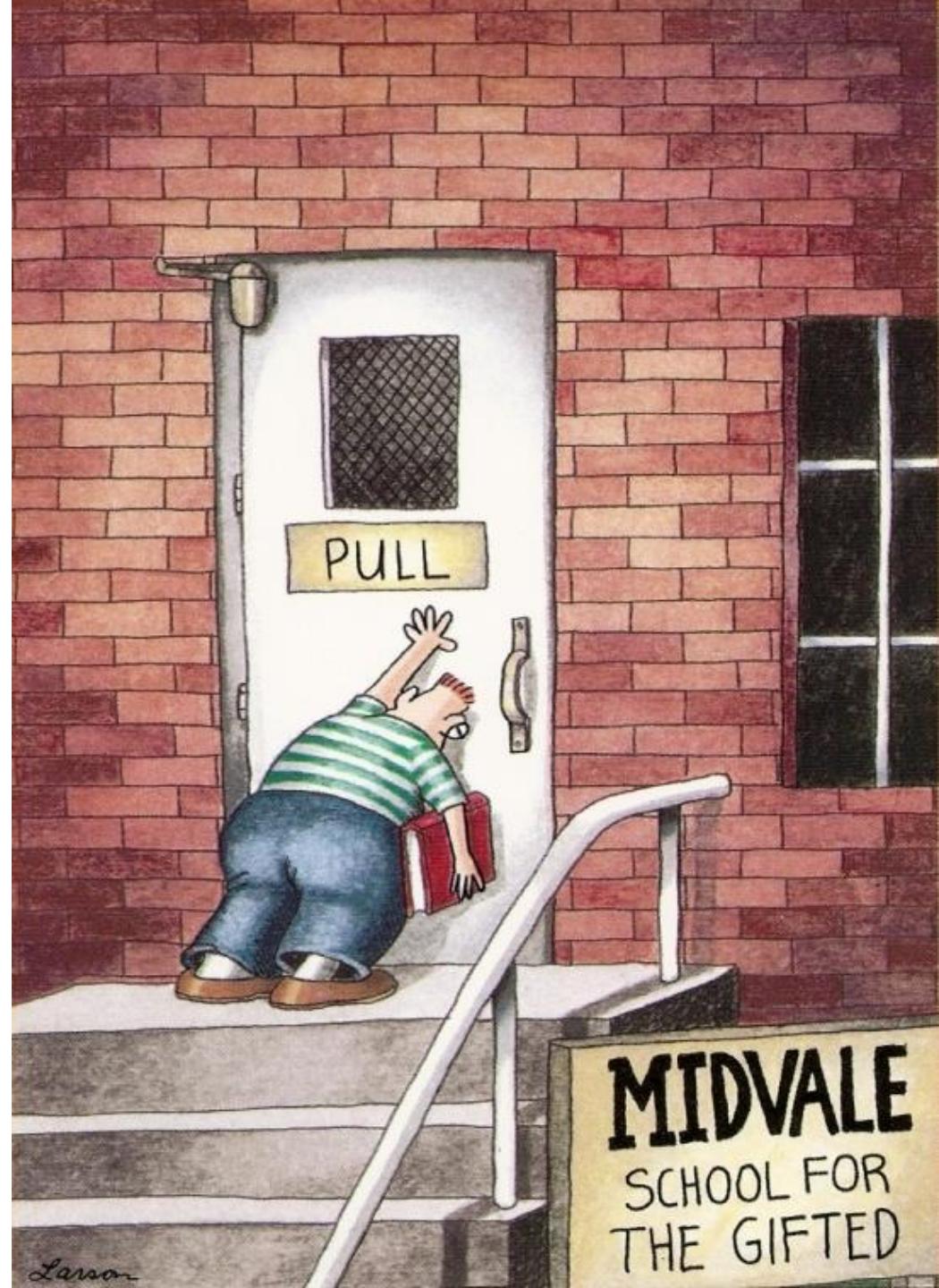
- Languages
 - 50 languages
 - Lucene / Microsoft analyzers
- Facets
 - Schema-driven
 - Define columns to categorize
 - Facet=Rating,value:1|2|3|4
- Filters
 - Used with facets
 - Operators
- Highlighting
 - `highlight=[field name]`
- Suggestions
 - Auto-complete
 - Fuzzy / Infix
- Count
 - `@odata.count`
 - `$top`
 - `$skip`
- CORS
 - None / All / Custom

Pricing

	FREE	STANDARD
Storage	50 MB	25 GB / unit
Queries per Second*	N/A	15 / unit
Documents Hosted**	10,000 Documents 3 Index Limit	15 Million / unit 50 Index Limit
Scale Out Limits	N/A	Up to 36 units
Price per Unit per Hour	Free	\$0.336/hr (~\$250/mo)

Learn More

- [What is Azure Search?](#)
- [Azure search – Helpful resources](#)
- [Azure Search Service REST API](#)
- [Channel 9 Azure Search Videos](#)
- [Microsoft Virtual Academy](#)
- [PostMan](#)



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