

A photograph of a small, grey and white tabby kitten sitting on the seat of a wooden chair. The chair has a cane backrest. The kitten is looking down and slightly to the left. The background is a soft-focus indoor setting.

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It's 2018.
Why aren't you
using
Azure Search?





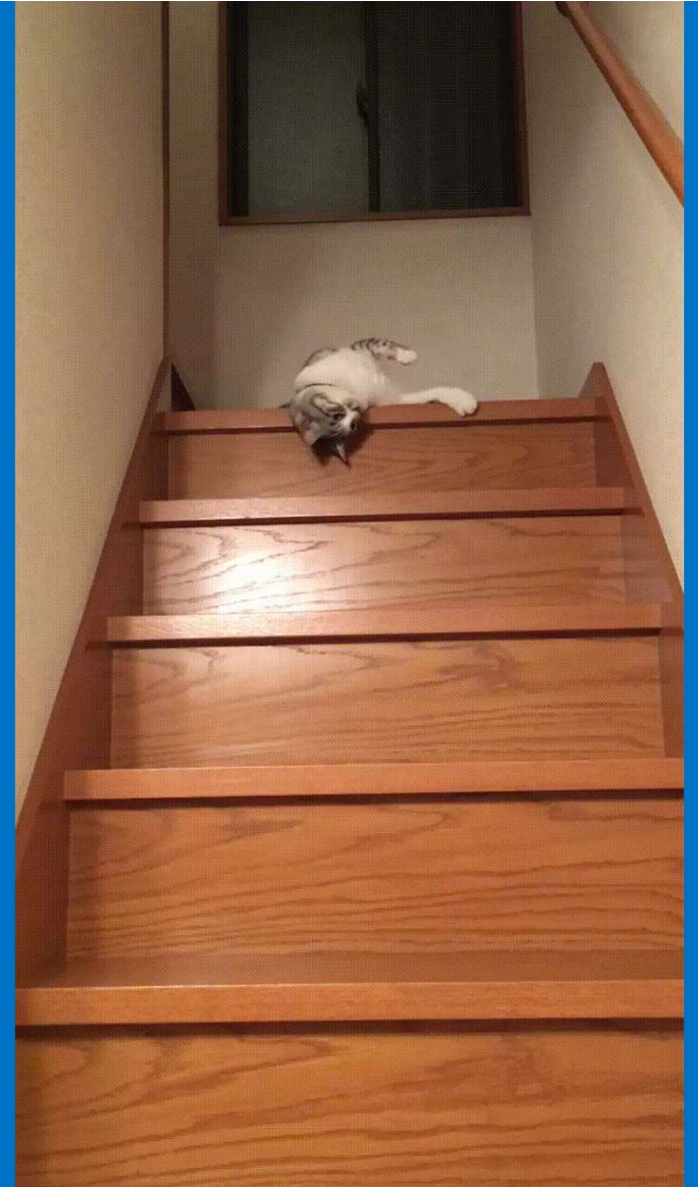
Does your current search not fit your needs?



Are users not able to find what they want?

Why hosted search?

- Search can be complex
- Requires constant rebuilding / tuning
- Needs to be industry / site / context specific
- Difficult to predict load
- If it doesn't work, you'll know really fast
- It's a lot harder than it should be





Creating Indexes

- Data 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, Analyzer, Synonym Mapping
- Partitions
 - Provides index storage and I/O for read/write operations (Scale Up)
- Replicas
 - Instance of the search service / copies of the indexes (Scale Out)



Searching data

- Full-text queries
 - Prefix matching
- Syntax
 - Simple query syntax for full-text
- Search=* (all fields) / Specific columns

- Data Types
 - Edm.String
 - Colleciton(Edm.String)
 - Edm.Boolean
 - Edm.Int32
 - Edm.Int64
 - Edm.Double
 - Edm.DateTimeOffset
 - Edm.GeographyPoint



Past the TOC

- Facets
 - Schema-driven
 - Define columns to categorize
 - Facet=Rating,value:1|2|3|4
- Filters
 - Used with facets
 - Operators
- Scoring Profiles
 - Weighting
 - Distance
- Highlighting
- Synonym mapping
- Suggestions vs Autocomplete
- Cognitive Search



Analyzing Your Data

- Power BI Content Pack
 - Free!
 - Contains major data points
- Search Reports
 - Most Common Search Queries
 - Searches Over Time
 - Number of Searches
- Indexing Reports
 - Indexing Requests
 - Documents Indexed
 - 503s Report
- Service Reports
 - Results Over Time



Some real stuff



Pricing

F Free	B Basic	S Standard	S2 Standard	S3 Standard	S3 High-density
3 Indexes	15 Indexes	50 Indexes	200 Indexes	200 Indexes	1000 Indexes/Partition*
50 MB Storage	2 GB Storage	25 GB/Partition* Storage	100 GB/Partition* Storage	200 GB/Partition* Storage	200 GB/Partition* Storage
Shared Resources	Dedicated Resources	Dedicated Resources	Dedicated Resources	Dedicated Resources	Dedicated Resources
None Scaling	Up to 3 search units Scaling	Up to 36 search units Scaling	Up to 36 search units Scaling	Up to 36 search units Scaling	Up to 36 search units Scaling
	Up to 3 replicas Load Balancing	Up to 12 replicas Load Balancing	Up to 12 replicas Load Balancing	Up to 12 replicas Load Balancing	Up to 12 replicas Load Balancing
		Up to 12 partitions Partitions	Up to 12 partitions Partitions	Up to 12 partitions Partitions	Up to 3 partitions Partitions
					High-density enabled Built for SAAS developers

Azure Search Service Limits

<https://docs.microsoft.com/en-us/azure/search/search-limits-quotas-capacity>

Learn more

- **Azure Search**
<https://azure.microsoft.com/en-us/services/search/>
- **Azure Search Documentation**
<https://docs.microsoft.com/en-us/azure/search/>
- **Integrating Azure Search with Kentico**
<https://devnet.kentico.com/articles/integrating-azure-search-with-kentico>
- **Azure Search Roadmap**
<https://azure.microsoft.com/en-us/roadmap/?query=azure+search/>
- **Azure Search Performance and Optimization Considerations**
<https://docs.microsoft.com/en-us/azure/search/search-performance-optimization>
- **Lucene query syntax in Azure Search**
<https://docs.microsoft.com/en-us/rest/api/searchservice/lucene-query-syntax-in-azure-search>



Want to know Kentico Cloud?

- Cloud-based content
- Flexible Plans
- Any technology / any platform
- Microservice-powered
- Azure-hosted



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Start Using Azure Search!

- Scalable
- Flexible
- Powerful
- Make you apps faster
- Simplify your development
- 100% Azure
- Microservices = the future



