Azure App Configuration- Overview & Demo

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Agenda

- What Is Azure App Configuration?

- Why Use Azure App Configuration?

- Pricing

- Demo

What Is Azure App Configuration?

- Azure App Configuration is a fully managed service that provides a centralization of
  - Application configuration/settings
  - Feature management

- 99.9% Availability
  - Data
    - Encrypted at rest/transit
    - Stored in primary region where resource deployed
    - Replicated to paired regions - will stay within Geography (USA, Gov, Canada)

Why Use Azure App Configuration?

- Centralized Configuration
  - Single Location for settings of all apps within your organization

- Protection of sensitive settings
  - Key Vault Integration
  - Azure-managed Identity can be used for security
    - Development – Visual Studio or Azure CLI Azure.Identity
    - Azure Deployed – Azure Managed Service Identity (MSI)

- Removal of settings/configuration/feature management from:
  - Source code
  - Deployment pipelines
  - Environment where the code runs

- "Real-time" updates of settings and features without re-starting an application or re-deploying code
  - Configurable "cache" time of refreshed settings

- Easy viewing/management of settings and features
  - Mis-configured settings cause many issues and are typically hard to troubleshoot and manage in distributed system environments

- Tagging/Labeling of settings
  - Apply one setting to different environments with different values based on labels

- Revision history of settings

Pricing

- Free Tier
  - 1 allowed per subscription
  - 10 MB Storage
  - Revision History – 7 Days
  - Request Quota – 1,000 / Day
  - SLA – None
  - Security (Encryption with Microsoft-managed keys
    HMAC or AAD authentication
    RBAC support
    Managed identity
    Service tags)

- Standard Tier
  - Unlimited App Config Resources per subscription
  - 1 GB Storage
  - Revision History – 30 Days
  - Request Quota – 20,000 / Hour
  - SLA – 99.9% availability
  - Security (Same as Free Tier plus customer-managed keys / private link)
  - $1.20 per day (~$36/month), plus an overage charge at $0.06 per 10,000 requests
    - The first 200,000 requests are included in the daily charge. Additional requests will be billed as overage.

- Can upgrade from Free to Standard Tier
  - Cannot downgrade

Demo

- Settings Configuration
  - Connection (Connection String vs. Identity/Managed Identity)
  - Setup of Filter and Label (Environment as example)
  - Auto-Refresh of settings without restart of application or re-deployment of code
    - Walk-through of changing of a setting and update of sentinel value

- Features
  - Simple example of feature usage
    - Walk-through of changing enabled status of a feature