AZ-900 - Microsoft Azure Fundamentals - Pricing

AZ-900 Pricing

- **Pricing Structure**
  - You don't own the hardware
  - Pay for number of hours you use
  - Pay more for more resources
  - Service payment is tiered
  - Location can affect the price

- **Subscription**
  - Billing & Pricing
    - All resources belong to a subscription
  - Multiple subscriptions per account
  - Billing admin
    - Multiple users can be a "billing admin"
    - Separation of responsibility. Billing, invoice, etc
  - Billing cycle
    - 30 or 60 days
  - Offer types
    - Free trial
    - Pay-as-you-go
    - Others
  - Management groups
    - Group subscriptions
      - Large organizations with many subscriptions
    - Organize
      - Manage access, policies and compliance in bulk
    - Billing logic
      - Nest groups (hierarchy and relationship)

- **Cost Management**
  - Free accounts
    - VMs, database, storage and more
    - Some services are always free
    - Some services partially free up to a threshold
  - Azure portal
    - Dashboard of current and projected costs
    - Detailed spending reports and recommendations
    - Optimize resources to save money
  - Spot VMs
    - Save money by using unused capacity
    - Not recommended for critical workloads
    - Set a max price

- **Pricing Factors**
  - Influences on pricing
    - Resource size
    - Resource type
      - Complexity and amount of hardware needed
    - Location
      - Exchange rates, labor costs and more
    - Bandwidth
  - Billing zones
    - Data transfers within a billing zone is free
    - Data transfers between different billing zones is charged
    - Ingress data is always free
  - Pricing calculator
    - Choose from all available services
    - Select resource properties
  - TCO Calculator
    - Estimate total savings by using Azure
    - Comprehensive reports to share

- **Best Practices**
  - Spending limits
    - Default limit
      - Accounts with monthly credits
    - No spending limits
      - Pay-as-you-go
        - Most expensive model
  - Quotas
    - Property limit
      - Example, maximum 100 namespaces for Event Hub
    - Ensure higher service level
    - Quota change
      - Request quota increase
  - Tags
    - Identify roles
      - Protect sensitive data
    - Related resources
    - Filter
      - Project, stage, customer, reporting
    - Unambiguous
  - Reserved instances
    - 1 or 3 years commitment
    - Reduce costs up to 72%
  - Reserved capacity
    - 1 or 3 years commitment
    - Azure SQL, Cosmos DB, Synapse Analytics, Redis Cache
  - Azure Hybrid Benefit
    - Bring your own license - BYOL
  - Advisor
    - Cost optimization and recommendations