**Azure App Service** is a **Platform as a Service (PaaS)** offering from Microsoft Azure that enables you to build, host, and scale web apps, mobile app backends, and RESTful APIs without managing the underlying infrastructure.

**Key Features of Azure App Service:**

1. **Multiple Language Support**  
   Supports .NET, Java, Python, PHP, Node.js, and Ruby.
2. **Integrated DevOps**  
   Continuous integration and deployment (CI/CD) with GitHub, Azure DevOps, Bitbucket.
3. **Auto-scaling and Load Balancing**  
   Automatically scales up/down based on demand and evenly distributes traffic.
4. **High Availability**  
   Built-in auto-patching and support for regional failover.
5. **Custom Domains & SSL**  
   Bind your app to custom domains and secure with SSL certificates.
6. **Authentication & Authorization**  
   Built-in authentication with providers like Azure AD, Google, Facebook, etc.

**Types of Apps Supported:**

1. **Web Apps** – Host websites and APIs.
2. **Mobile Apps** – Backend services for mobile applications.
3. **API Apps** – Host RESTful APIs with automatic Swagger support.
4. **Linux Web Apps** – Deploy web apps in a Linux environment with Docker containers support.

**Daily Use Cases:**

| **Use Case** | **Description** |
| --- | --- |
| Hosting a Business Website | Quickly deploy a corporate site without managing servers. |
| Backend for Mobile Applications | Provide a secure and scalable backend for mobile apps. |
| Deploying APIs | Expose services to other apps or third-party clients using hosted APIs. |
| Running Scheduled Jobs | Use WebJobs or Azure Functions for background tasks like reports/emails. |

**Advantages of Azure App Service**

1. **Fully Managed Platform**
   * Microsoft handles infrastructure, OS patches, and scaling — you focus only on your code.
2. **Fast Deployment & CI/CD Support**
   * Easily integrate with GitHub, Azure DevOps for automated builds and deployments.
3. **High Scalability**
   * Auto-scale based on demand; supports horizontal and vertical scaling.
4. **Built-in Security**
   * Supports authentication with Azure AD, social logins, and custom domains with SSL.
5. **Global Availability**
   * Easily deploy to multiple regions for better performance and redundancy.
6. **Hybrid Connectivity**
   * Connects with on-premise networks using VNet integration and Hybrid Connections.
7. **Multiple Environment Support**
   * Create staging slots for testing and swap with production with zero downtime.

**Disadvantages of Azure App Service**

1. **Limited Customization**
   * Less control over the OS and infrastructure compared to IaaS (like Azure VMs).
2. **Cold Start in Consumption Plan**
   * In some hosting plans (like Azure Functions under consumption), apps may have a delay on first load.
3. **Pricing**
   * Can become costly at higher tiers or with high traffic if not optimized.
4. **Limited Backend Control**
   * You can’t install arbitrary software or perform deep system-level configurations.
5. **Complex for Very Large Applications**
   * May not be suitable for apps requiring complex microservice orchestration or legacy system dependencies.