**Azure Key vault**

Azure Key Vault is used to securely store and manage cryptographic keys, secrets, and certificates, providing a centralized and highly secure solution for protecting sensitive information and enabling strong access control policies in cloud applications.

**Microsoft defender**

Microsoft Defender is a comprehensive security solution offered by Microsoft, designed to protect against various types of threats such as viruses, malware, ransomware, and other malicious software. It provides real-time protection, automatic updates, and advanced threat detection capabilities to safeguard devices and data across multiple platforms, including Windows, macOS, and Linux.

**Azure Active Directory**

Azure Active Directory (Azure AD) is Microsoft's cloud-based identity and access management service. It provides a robust set of capabilities for managing user identities, securing access to resources, and enabling seamless single sign-on experiences across various applications and services. Azure AD supports authentication, authorization, and identity management for both cloud-based and on-premises resources, making it a central component for managing user access and enforcing security policies in Azure and hybrid environments.

**Azure IOT Edge**

Azure IoT Edge is a service provided by Microsoft that extends Azure IoT capabilities to the edge of the network. It enables the deployment and management of cloud workloads, including AI, analytics, and custom business logic, directly on edge devices. Azure IoT Edge allows organizations to process and analyze data locally, reducing latency, optimizing bandwidth usage, and enhancing overall responsiveness. It also provides robust security features, offline capabilities, and integration with Azure services, empowering businesses to leverage the power of IoT closer to the data source.

**Event Grid**

Azure Event Grid is a fully managed event routing service provided by Microsoft. It enables the publishing and consumption of events from various sources and destinations within Azure or even external systems. Event Grid acts as a central eventing backbone, allowing seamless integration and real-time event-driven communication between different services and applications. It supports a wide range of event sources and can trigger automated workflows, notifications, or custom actions based on the published events. With Event Grid, developers can build reactive, scalable, and loosely coupled architectures that respond to events in a highly efficient and reliable manner.

**Azure IOT hub**

Azure IoT Hub is a fully managed cloud service provided by Microsoft that enables bi-directional communication and management of IoT devices at scale. It acts as a central hub for connecting, provisioning, and managing IoT devices securely. Azure IoT Hub provides features such as device registration, message routing, device-to-cloud and cloud-to-device messaging, device management, and integration with other Azure services. It allows organizations to collect data from IoT devices, monitor their status, send commands, and implement robust security measures to protect device communications. Azure IoT Hub enables organizations to build scalable and secure IoT solutions, unlocking the power of IoT and enabling digital transformation across various industries.

**Azure Container Registry**

Azure Container Registry is a managed private registry service provided by Microsoft as part of Azure's containerization offerings. It allows users to store, manage, and deploy container images securely in the cloud. Azure Container Registry provides a centralized repository for Docker container images, enabling teams to collaborate and share images across different environments and deployments. It integrates seamlessly with other Azure services, such as Azure Kubernetes Service (AKS), to simplify the deployment and scaling of containerized applications. Azure Container Registry also offers features like authentication, access control, image vulnerability scanning, and lifecycle management, making it a robust solution for container image management in Azure.

**Storage Accounts**

Azure Storage Accounts are a fundamental component of Microsoft Azure's storage services. They provide a scalable and durable storage solution for various data types, including blobs, files, queues, tables, and virtual machine disks.

Storage Accounts offer several key features:

Blob storage: It allows the storage and retrieval of unstructured data such as documents, images, videos, and backups.

File storage: It provides fully managed, highly available file shares that can be accessed through the Server Message Block (SMB) protocol.

Queue storage: It enables building scalable and decoupled applications by storing and processing messages asynchronously.

Table storage: It offers a NoSQL key-value store for semi-structured data, suitable for storing large amounts of unstructured data with quick access.

Disk storage: It enables the creation and management of virtual machine disks for Azure Virtual Machines.

**Azure Cosmos DB**

Azure Cosmos DB is a globally distributed, multi-model database service provided by Microsoft Azure. It offers scalability, low-latency access, and comprehensive support for various data models, making it ideal for building highly responsive and globally available applications.

**Azure functions**

Azure Functions is a serverless compute service offered by Microsoft Azure that allows developers to run event-driven code without the need to provision or manage infrastructure. It enables the execution of small, independent code snippets or functions in response to various triggers, such as HTTP requests, timers, message queues, or changes in data. Azure Functions offers a scalable and cost-efficient way to build and deploy lightweight microservices and serverless applications, providing automatic scaling, pay-per-use pricing, and seamless integration with other Azure services.

**App Services**

Azure App Service is a fully managed platform-as-a-service (PaaS) offering in Microsoft Azure that enables developers to build, deploy, and scale web, mobile, and API applications quickly. It provides a rich set of features, including automatic scaling, continuous deployment, built-in DevOps capabilities, and integration with Azure services, simplifying the application development and deployment process.