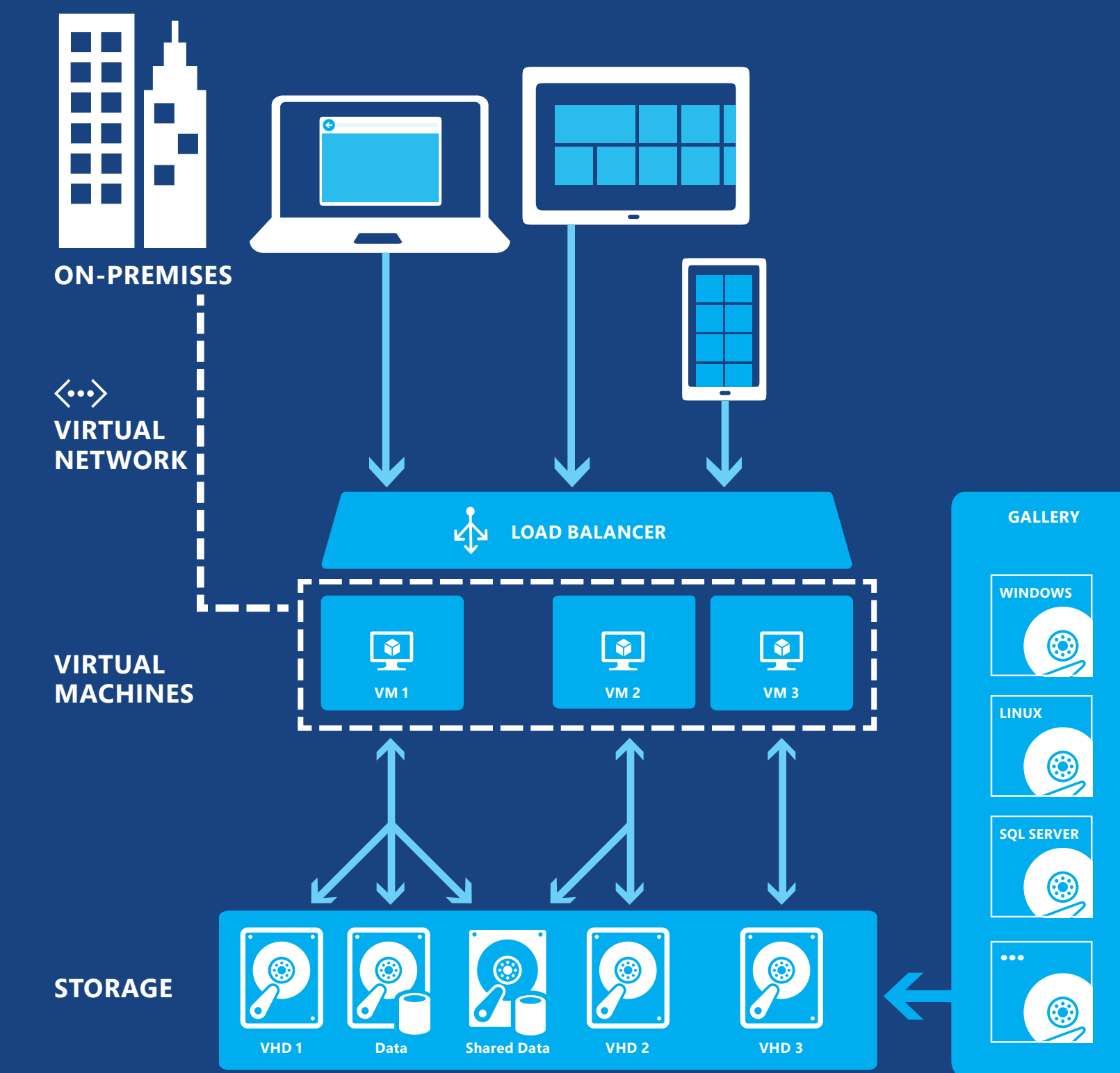


# What is Microsoft Azure?

# Microsoft Azure

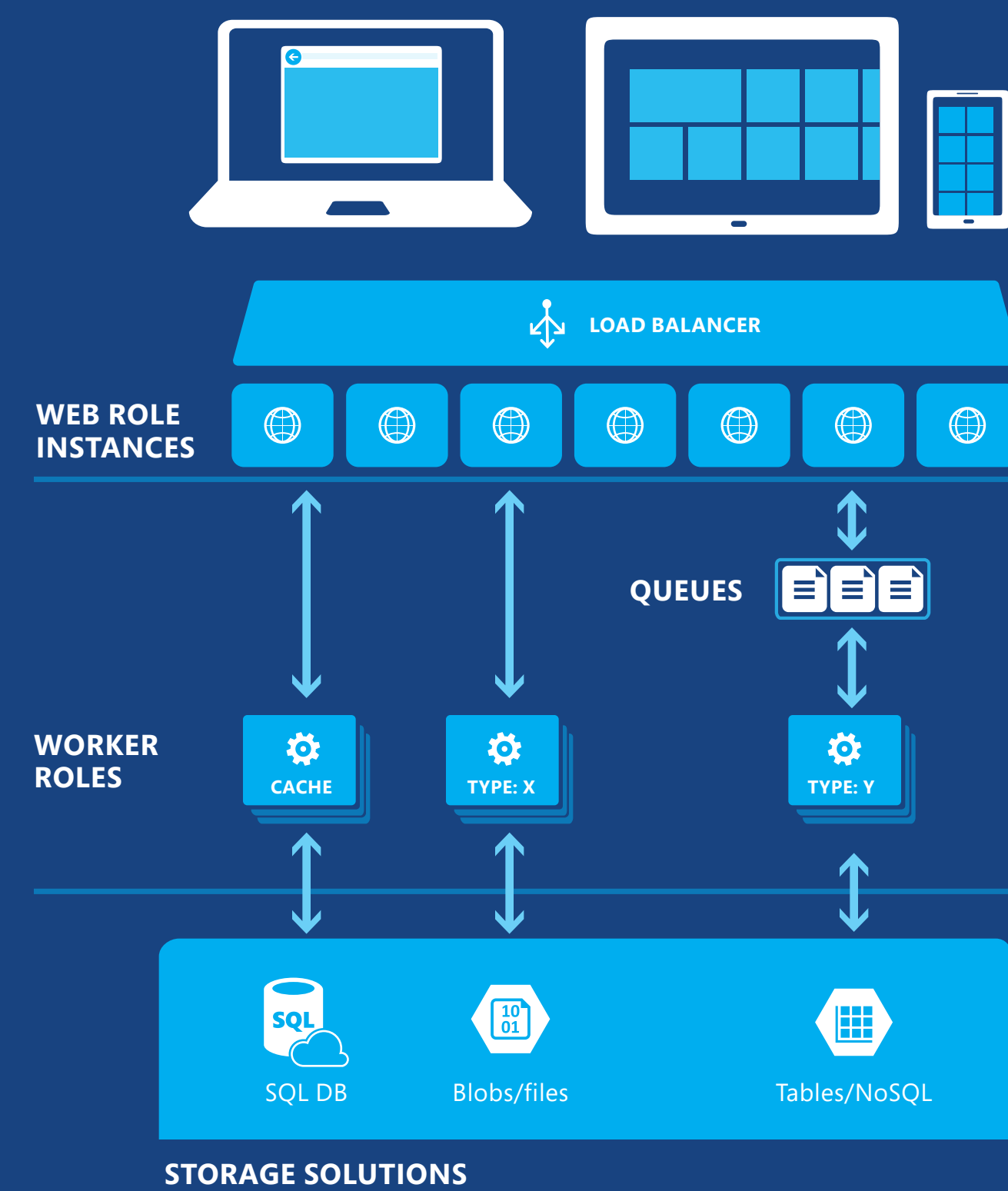
## Virtual Machines

VMs are basic cloud building blocks. Get full control over a virtual machine with virtual hard disks. Install and run software yourself. Configure multiple machines with different roles to create complex solutions. VMs are nearly identical to conventional (real) servers, and are the easiest way to move existing workloads to the cloud.



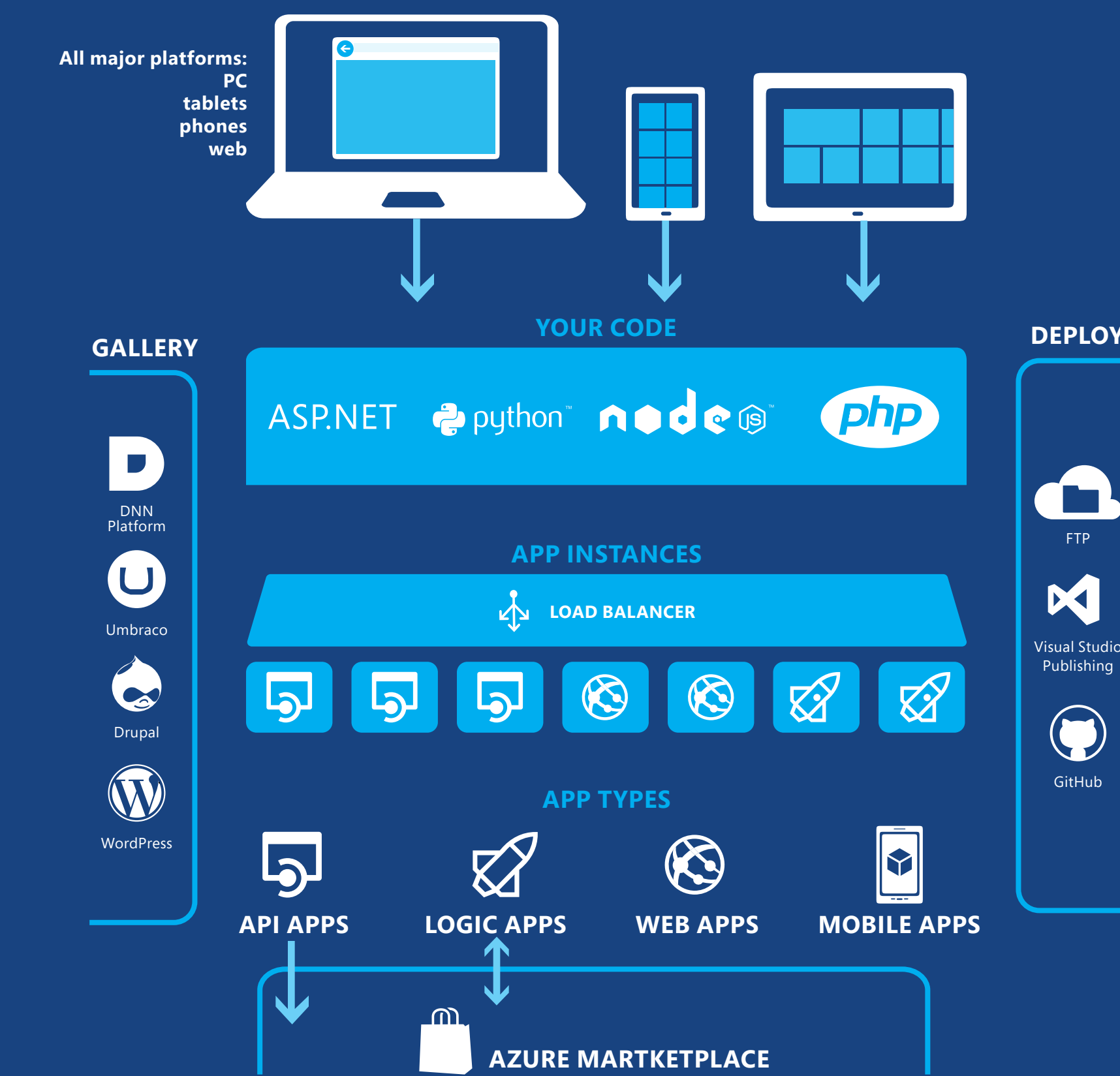
## Cloud Services

Easily access and manage these general-purpose VMs. We maintain and update each VM as needed with system updates. You configure the VM size as needed, and scale out as many copies as needed. Two types of VMs: worker roles and web roles—worker roles are made for computing and running services. The web role is simply a worker role with IIS already installed and configured.



## App Service

Azure App Service is a high productivity solution for developers who need to create enterprise-grade web and mobile app experiences. App Service provides a complete platform as a service solution that enables you to deploy and elastically scale applications in the cloud, and seamlessly integrate them with on-premises resources and SaaS based applications.



Microsoft Azure is a flexible, open, and secure public cloud built for business. Access a broad collection of integrated services that accommodate many languages and operating systems. Use world-class tools to accelerate a wide variety of app development and delivery capabilities.

# Catalog of Services

### COMPUTE

<p><b>Virtual Machines</b> Get full control over a server in the cloud and maintain it as your business requires</p>	<p><b>Cloud Services</b> Managed virtual machines with stateless web and worker roles</p>	<p><b>Service Fabric</b> Build highly scalable, reliable stateless and stateful applications composed of microservices</p>	<p><b>Batch</b> For running large scale parallel and high performance computing (HPC) applications</p>	<p><b>Scheduler</b> Create jobs that run reliably on simple or complex schedules to invoke any type of service</p>	<p><b>Remote App</b> Access Windows apps from any device and any location that run within Remote App VMs</p>
--	---	--	--	--	--

### NETWORKING

<p><b>Virtual Network</b> Provision and manage VPNs in Azure and securely link to your on-premises IT infrastructure</p>	<p><b>Express Route</b> Connect on-premises and cloud datacenters directly through dedicated, non-internet lines</p>	<p><b>Traffic Manager</b> Load-balance incoming global traffic across multiple services running in multiple datacenters</p>
--	--	---

### IDENTITY & ACCESS

<p><b>Active Directory</b> Identity and access management for cloud applications and ability to link to on-premises Server AD</p>	<p><b>Multi-Factor Authentication</b> Safeguard access to data and apps with additional physical layer of security control</p>
---	--

### MEDIA & CDN

<p><b>Media Services</b> Range of services that support video on-demand and live streaming workflows</p>	<p><b>CDN</b> Cache content for your apps in Content Delivery Network (CDN) at 100's of edge locations to improve user experiences</p>
--	--

### WEB & MOBILE

<p><b>Web Apps</b> Managed web platform, get started for free and scale as you go using many tools/ languages</p>	<p><b>Mobile Apps</b> Add backend capabilities to mobile apps, with native client support on most device platforms</p>	<p><b>API Apps</b> Create and surface your app logic as APIs for other services and apps to consume</p>	<p><b>Logic Apps</b> Build/execute business processes by linking your own custom APIs with an API Gallery/Marketplace</p>	<p><b>API Management</b> Publish and manage APIs to developers, partners and employees securely and at scale</p>	<p><b>Notification Hubs</b> Deliver millions of cross platform push notifications from any application backend, anywhere</p>
---	--	---	---	--	--

### ANALYTICS

<p><b>HDInsight</b> Big Data (based on Apache Hadoop) analytics that integrate easily with Microsoft Office</p>	<p><b>Machine Learning</b> Mine historical data with compute power to predict future trends or behavior</p>	<p><b>Stream Analytics</b> Process data streams in real-time to discover and react to trends</p>	<p><b>Data Factory</b> Ingest data from multiple sources to combine into a cloud based data warehouse</p>	<p><b>Event Hubs</b> Ingest, persist, process millions of events per second from millions of devices</p>	<p><b>Mobile Engagement</b> Real-time actionable analytics on user behavior to increase app usage</p>
---	---	--	---	--	---

### STORAGE & BACKUP

<p><b>Storage Blobs &amp; Files</b> Store binary application data and web content – store for dedicated and shared virtual disks for VM's</p>	<p><b>Backup</b> Managed service that handles backup/restore of Windows Server machines/backup agent</p>	<p><b>Import / Export</b> For massive data transfer – ship encrypted disks to move data in/out of blob storage</p>	<p><b>Site Recovery</b> Coordinate replication and recovery of System Center private clouds</p>	<p><b>StorSimple</b> Automated, policy driven solution to extend on-premises primary storage for backup and disaster recovery</p>
---	--	--	---	---

### DATA

<p><b>SQL Database</b> Managed relational database service with high availability and selectable performance levels</p>	<p><b>DocumentDB</b> Store/retrieve millions of JSON objects from a highly scalable NoSQL document database</p>	<p><b>Redis Cache</b> Make applications scale and be more responsive under load by keeping data closer to app logic</p>	<p><b>Search</b> Managed, scalable search service for your apps. Create tunable search results and ranking models</p>	<p><b>Tables</b> Massive scale for semi-structured key/value type data in this schema-less NoSQL store</p>
---	---	---	---	--

### DEVELOPER SERVICES

<p><b>Visual Studio Online</b> Store code, plan and track projects, build, deploy and test apps in the cloud collaboratively</p>	<p><b>Application Insights</b> Analyze app usage, availability and performance to detect issues and solve problems proactively</p>
--	--

### HYBRID INTEGRATION

<p><b>Storage Queues</b> Simple message queue for application de-coupling architecture for scale out</p>	<p><b>BizTalk Services</b> Build EDI and Enterprise App Integration (EAI) solutions in the cloud</p>	<p><b>Hybrid Connections</b> Connect apps in Azure with on-premises resources without a VPN or dedicated line</p>	<p><b>Service Bus</b> Messaging capabilities (pub/sub, queues) and on-premises to cloud connectivity solution</p>
--	--	---	---

### MANAGEMENT

<p><b>Automation</b> Run durable PowerShell scripts to automate frequent, long running, complex Azure tasks</p>	<p><b>Portal</b> Web based experience to provision, control and monitor all Azure services</p>	<p><b>Key Vault</b> Safeguard and control keys and secrets in cloud scale hardware security modules</p>	<p><b>Operational Insights</b> Analyze and troubleshoot on-premises IT infrastructure without using instrumented code</p>
---	--	---	---

### COMMERCE

<p><b>Store / Marketplace</b> Find and manage other services provided by third parties</p>	<p><b>VM Depot</b> Find free open source VM images that you can download and run in Azure Virtual Machines</p>
--	--