*Disclaimer: The list of services in this document was extracted from the IBM Cloud catalog using the public catalog API. This content attempts to be as accurate as possible. Use with care and refer to the official IBM Cloud Catalog https://cloud.ibm.com/catalog#services.*

 **Analytics Engine**  
  
An IBM Analytics Engine instance is allocated compute and memory resources on demand when Spark applications are started. When an application is not in running state, no computing resources are allocated to the instance. Pricing is based on the amount of resources consumed by the applications running in the instance, billed on a per second basis.  
Documentation: <https://cloud.ibm.com/docs/services/AnalyticsEngine/index.html>

Picture 1 **AnonTech ViziVault Platform**  
  
Overview  
The AnonTech team is revolutionizing personal information management and re-defining the data privacy space with ViziVault.  
  
Our personal information management platform, ViziVault, allows you to isolate, manage, analyze, and protect your customer's personal information. Our powerful, easy-to-use, API makes integration a breeze and handles all data encryption & decryption. The ViziVault Enterprise management console allows the right people to monitor and administer personal information usage, keeping your organization safe, secure, and in compliance with data privacy regulations.  
  
Engineers use the technology as a data source-of-truth & achieve full data security, administrators have complete role-based access control over who has access to what data, data privacy officers get visibility into risk levels within an organization, and management gets peace-of-mind knowing they are safe from data breaches and in full compliance with government & corporate data privacy regulations.  
  
The AnonTech team has leveraged their 15+ years of legal and compliance experience to develop a new data privacy technology, called ViziVault, which bridges the gap between security and compliance. With ViziVault, data privacy is built into products by design instead of being an afterthought.  
  
Getting Support  
Please submit issues directly to our support form on our website: https://www.anontech.io/support 24/7/365. Please include as much detail as possible on the issue. Daytime support is available during standard business hours (M-F 9-5 US EST). Off-hour support is limited and responses may be delayed. Prior to submitting an issue, please take a moment to review our documentation here: docs.anontech.io. To submit additional information, include attachments/screenshots, or escalate an urgent issue, please e-mail us at support@anontech.io. A member of our team will respond immediately upon receipt.  
Documentation: <https://docs.anontech.io>

 **Anycloud Backup for 365**  
  
AC Backup for 365 is a partner-ready SaaS offering of data protection delivered by Anycloud and is created with the intent to safely backup data and restore. The purpose of AC Backup for 365 is to provide a secure backup of data stored with Exchange, OneDrive, SharePoint, and Teams for end-users with features fitting their needs. We offer:  
- Instant 30 days free trial; give your clients an opportunity to test the solution with the free trial offering for 30 days – with no commitment.   
  
- Managed service or self-service; the AC Backup for 365 solution can be offered as a managed service or self-service solution in a simple and transparent pricing model based on a ‘’per user model’’.  
  
- Choose world-wide data locality; clients can choose data locality worldwide fitting their needs and have the possibility of storing data away from Microsoft environment, to have a multi-vendor protection setup.   
  
  
  
Web portal for management and restore  
AC Backup for 365 has a simple-to-use intuitive web interface consisting of two portals: management portal and restore portal. The management portal is for administration of all organizational data and is where backups are scheduled. It is also in the management portal where retention periods are chosen – 1, 3, 5 or 10 years all with unlimited storage. The restore portal is from where backups can be retrieved and restored. It is possible to restore entire folders or single files.   
  
As a part of the service we offer access to our knowledge base, where all common questions and technical errors have been collected. In addition we offer access to a changelog that is divided into API, management portal and restore portal, where you can find all the latest updates.  
  
  
  
Technical specifications  
- AC Backup for 365 has a 99,9% SLA uptime  
- Strong AES 256-bit encryption whenever data is in transit  
- Up to 10 years of retention and unlimited storage  
- Combines Veeam technology with IBM Cloud and IBM Cloud Object Storage  
- Automated Microsoft 365 backup configured to meet customers’ RTO and RPO  
- Secure backup data at-rest, with no option to delete or change the backup data   
  
  
  
Compliance  
AC Backup for 365 is developed by Anycloud, and the service complies with the General Data Protection Regulation and industry standards. The technologies used are compliant as data is encrypted and once data is placed in the chosen datacenter it stays there. Data security is our priority, and our services are delivered in 20+ datacentres across the globe, which are minimum tier-3 datacentres. All datacenters are SOC 2 certified, and the EU datacentres are GDPR compliant.   
  
In addition, we deliver a ‘’right to be forgotten’’ feature for your end-customers, which offers the possibility to delete specific users and data. Furthermore, we have an exit-strategy in place for end-customers in case of termination of the service removing data from AC 365 Backup to the end-customer directly or a new service provider. Anycloud does not restrict, withhold, or keep data after termination.   
Documentation: <https://cdn.revirt.global/o365/promotional/revirt365_whitepaper.pdf>

 **API Connect**  
  
IBM API Connect is a comprehensive, end-to-end API management solution for creating, securing, managing, sharing, monetizing, and analyzing APIs located on cloud and on-premises.  
  
  
  
The Reserved Instance plan provides a dedicated, multi-zone high availability deployment of API Connect v10 that leverages core IBM Cloud services for common tasks like identity management, monitoring, auditing, and logging. It includes the management, gateway, analytics, and portal server components of API Connect, as well as tools for registering and managing existing gateways located on-premises and on third-party clouds.  
Documentation: <https://cloud.ibm.com/docs/apiconnect?topic=apiconnect-getting-started>

 **App Configuration**  
  
IBM Cloud App Configuration is a centralized feature management and configuration service for use with web and mobile applications, microservices, and distributed environments.  
Instrument your applications with App Configuration SDKs, and use the App Configuration dashboard or administrator API to define feature flags, organize them into collections, and target them to segments (groups) of users or resources that you define. Change feature flag states in the cloud to activate or deactivate features in your application or environment, often without re-starting.  
Documentation: <https://cloud.ibm.com/docs/app-configuration>

 **App ID**  
  
Use App ID to add authentication to your mobile and web apps and protect your APIs and back-ends running anywhere. No code change or redeploy is required for your containerised apps.  
  
Add email/password based sign-up and sign-in, and MFA with App ID's scalable user registry - Cloud Directory, or social log-in with Google or Facebook. For employee apps, use SAML 2.0 federation to let users sign-in with their enterprise credentials. For all app users, enrich their profiles with additional info so you can build engaging experiences.  
Documentation: <https://cloud.ibm.com/docs/services/appid>

 **Auto Scale for VPC**  
  
Auto Scale for VPC is a fast, easy way to optimize the performance and cost of your applications at no additional cost other than the compute resources used.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-creating-auto-scale-instance-group>

 **Bare Metal Server for Classic**  
  
IBM Bare Metal Server provides performance, flexibility, on-demand provisioning, and control. Choose between hourly or monthly pre-configured servers or customize with single to quad processing solutions that range from 4 to 72 cores. Bare metal servers are available worldwide and with no monthly contracts so you can build the best solution for your workloads.  
Documentation: <https://cloud.ibm.com/docs/bare-metal?topic=bare-metal-about-bm>

 **Bare Metal Server for VPC**  
  
Bare metal server for VPC are dedicated servers offering direct hardware performance and is integrated as a first-class compute offering within Virtual Private Cloud. Users can leverage existing VPC services across storage, networking, and security with bare metal for VPC and can incorporate its higher end hardware profiles with the additional benefit of end-user managed virtualization. Test.  
  
#### Pricing  
  
##### Hourly, pay-as-you-go  
Pay-as-you-go bandwidth is per gigabyte. Your billing charges accrue from provision to cancellation, and are billed in arrears. This VPC product does not support suspended billing and will continue to bill regardless of the power state. Total pricing includes bare metal server instance profiles and software, internet data transfers, and optional VPC services. Each additional component is priced separately and included as part of your total IBM Cloud VPC charge. Service tiers are bound to your account, not to any specific VPC.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-about-bare-metal-servers>

 **Bespoken Automated Testing For IVR and Chat**  
  
Test faster and significantly reduce errors while incorporating multiple languages, dialects and accents into your testing practices with Bespoken’s Automated Testing for IVR and Chatbots. Ensure that your system is working all the time, your users are understood without frustration, and your system can scale to meet the heaviest usage volumes. In the process, increase customer satisfaction, call deflections, and first-call resolution, all of which lead to significantly higher ROI on your contact center investment.  
  
Bespoken works with customers such as Mercedes-Benz, BNP Paribas, Moen, Disney, Roku and many more to deliver exceptional conversational experiences. We have been working with voice and chat since 2017, and have helped customers across every type of natural language application unlock high-performance AI.  
  
Our software supports a myriad of Conversational AI platforms, including IBM Watson Assistant, Genesys Cloud, Amazon Connect, Google Dialogflow, and many more. We work across a range of channels, from IVR to SMS to WebChat to physical devices.  
  
Get started with our free trial to rapidly improve the quality of your conversational experiences.  
  
Documentation: <https://read.bespoken.io/>

Picture 10 **Block Storage for Classic**  
  
Get local disk performance with SAN persistence and durability. Increase storage capacity available to your IBM Cloud Virtual Servers and Bare Metal Servers with a maximum of 48k IOPs. Deploy flash-backed block storage volumes from 20GB to 12TB–and customize it all with a variety of capabilities.   
  
Choose Endurance tiers for simple, predefined, per-GB pricing—ideal for workloads without well defined performance requirements.   
Or, build a fine-tuned environment with allocated IOPS with Performance options—ideal for well-understood workload requirements that fall outside of the available Endurance tiers.  
Documentation: <https://cloud.ibm.com/docs>

 **Block Storage for VPC**  
  
Get local disk performance with SAN persistence and durability. Increase storage capacity available to your IBM Cloud Virtual Servers with a maximum of 48k IOPS. Deploy flash-backed block storage volumes from 20GB to 16TB–and customize it all with a variety of capabilities.  
  
Choose an IOPS tier profile for simple, predefined, per-GB pricing—ideal for workloads without well-defined performance requirements.  
  
Or, build a fine-tuned environment with allocated IOPS using a Custom IOPS profile—ideal for workloads without well-understood requirements that fall outside of the predefined IOPS tiers.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-creating-block-storage>

 **Block Storage Snapshots for VPC**  
  
With this service, you can create point-in-time copies of your block storage boot and data volumes. The snapshots are stored in Cloud Object Storage.  
  
The first snapshot is a full backup of the volume. The subsequent snapshots of the same volume are incremental; they capture only the changes that occurred since the last snapshot was taken.   
  
You can take snapshots of individual volumes and you can create a consistency group to take snapshots of multiple volumes that are attached to the same VSI simultaneously.  
  
You can use these snapshots later to create stand-alone data volumes, provision new virtual server instances, or add new data volumes to existing virtual server instance. You can use the snapshots to recover operations after a disastrous event or to expand your VPC to other regions.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-snapshots-vpc-create>

 **BUS4i System Copy - Migrate 23 for Power i**  
  
BUS4i System Copy simplifies the process of moving and migrating your IBM I to another IBM I System, whether it's in the cloud or on-premise. Here's how it works:  
  
1. Effortless Backup and Restore:  
 - No tapes or additional disk space/storage are needed.  
 - A simple IP connection is sufficient.  
 - The restoration process begins simultaneously with the backup.  
  
2. Email Notifications:  
 - Receive an email notification as soon as your restore is completed.  
  
3. User-Friendly Experience:  
 - The entire procedure is designed for user convenience.  
 - Enjoy testing your new system hassle-free.  
  
Experience a smooth and efficient transition with BUS4i System Copy.  
Documentation: <https://wiki.bus4i.com/bin/view/Main/BUS4i/BUS4i%20System%20Copy>

 **Caveonix RiskForesight**  
  
Manage cyber and compliance risk with proactive monitoring and automated defense controls to protect against threats and meet industry or government regulations  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/vcenter/vc_vcenterserveroverview.html>

Picture 15 **Citrix NetScaler VPX**  
  
Citrix NetScaler VPX is an industry-leading application delivery controller that enables seamless delivery of business applications - to any device and location – with superior layer 4-7 load balancing, advanced application optimization and unmatched security. It can be used for local load balancing of traffic among servers within a single data center and also global load balancing of traffic among servers spread across multiple data centers.  
Documentation: <https://cloud.ibm.com/docs/citrix-netscaler-vpx/getting-started.html>

 **Client VPN for VPC**  
  
IBM Cloud Client VPN for VPC provides an open-source compatible client-to-site VPN solution that allows users to connect to IBM Cloud resources through secure, encrypted connections. When your users are working remotely, traveling or at a location without a site-to-site VPN connection, they can use an OpenVPN client to connect to VPN servers on your IBM Cloud VPC.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-vpn-client-to-site-overview>

Picture 17 **Climate Impact API**  
  
Yayzy’s Climate Impact APIs provide meaningful sustainability insights to individuals by firstly categorising payment transactions at a highly granular level, then applying a Carbon Intensity Factor using globally recognised emissions data. The solution also factors in individual lifestyle choices – for example, whether the person is vegan or drives an electric vehicle - and the recognised sustainability credentials of the retailers they buy from, such as B Corp or Carbon Neutral, to provide a highly granular carbon footprint for each transaction a customer makes.  
  
Aggregating the data provides customers with a holistic view of their personal carbon footprint. Yayzy then offers EcoTips and sustainable alternatives, helping consumers to reduce their impact. Finally, for emissions that cannot be avoided, Yayzy’s solution offers customers other ways to become completely carbon neutral, such as contributing to permanent carbon removal and certified carbon offset projects.  
Documentation: <https://yayzy.readme.io>

 **Cloud Activity Tracker**  
  
IBM Cloud Activity Tracker is your source for activity events recorded within IBM Cloud. Activity events are records of the API calls to services on the IBM Cloud and produces the evidence to comply with corporate policies and market industry-specific regulations. Cloud activity events help accelerate detection of security events and application performance issues.   
  
Application environments seeking to maintain Financial Services Validation status on IBM Cloud should consult documentation (https://cloud.ibm.com/docs/activity-tracker?topic=activity-tracker-getting-started) to configure activity events to route directly to IBM Cloud Object Storage.  
  
IBM Cloud Activity Tracker offers ready to run event search offerings to simplify configuration and expedite your time to greater insights. You can choose to retain your events for 7, 14, or 30 days. A 30 day HIPAA compliant offering is also available.  
Documentation: <https://cloud.ibm.com/docs/activity-tracker?topic=activity-tracker-getting-started>

 **Cloud Backup for Classic**  
  
An automated agent-based multi-tenant backup system, that provides users with a method to back up data between servers in one or more data centers on the IBM Cloud. IBM Cloud Backup is an enterprise-level backup storage and disaster recovery solution that is available for local access across globally dispersed data centers. With IBM Cloud Backup, you can add cloud-based backup to any physical, virtual, or hybrid server environment, leverage system image and granular recovery options and restore capabilities for dissimilar hardware, and schedule backups and retention schemes to follow custom timetables or employ the daily, or weekly preconfigured schedules as needed. Backups can target full systems, specific directories, or even individual files, and will incorporate block-level change processing, data deduplication, and intelligent on-the-fly compression, and employ point and click downed-system restoration, from central management and administration via a very intuitive web-based utility from anywhere in the world. With end-to-end encryption that is enforced for IBM Cloud Backup, your data is always secure – from source to vault, and can scale as needed, to satisfy all of your backup workload requirements.  
Documentation: <https://cloud.ibm.com/docs/infrastructure/Backup?topic=Backup-getting-started#getting-started>

 **Cloud Backup for VPC**  
  
IBM Cloud Backup for VPC is an enterprise-level backup solution that automates creation and retention of your VPC block storage volumes. This service lets you set a scheduled backup of your block storage volumes and snapshots created from those volumes.  
  
When a backup is triggered, it creates a new snapshot of the volume contents. A snapshot is a point-in-time copy of your block storage volume. The entire contents of the volume are copied and retained. Subsequent snapshots will capture the incremental changes from the previous snapshots.  
  
#### Pricing  
  
You will be charged for the storage capacity used for each of your backups. To estimate pricing while you create a backup policy, use the "Add to estimate" button on the Create tab. For more information, see the [Backup service documentation](/docs/vpc?topic=vpc-backup-service-about).  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-backup-service-about>

 **Cloud HSM**  
  
A hardware security module (HSM) is a dedicated crypto processor designed for the protection of the crypto key life cycle. HSMs act as trust anchors that protect the cryptographic infrastructure of some of the most security-conscious organizations in the world by securely managing, processing, and storing cryptographic keys inside a hardened, tamper-resistant device. Cloud HSM is a FIPS 140-2 Level 3 validated, single-tenant device available around the world where you need it most.  
Documentation: <https://cloud.ibm.com/docs/hardware-security-modules?topic=hardware-security-modules-getting-started>

Picture 22 **Cloud Load Balancer**  
  
The service offers variety of application delivery features such as layer-4 load balancing of TCP based applications, periodic checking of application server health, SSL offload, intuitive graphical interface, and built-in high reliability. The service is charged as per its actual consumption - per the total number of hours its used and the total amount of data it has processed. Public outbound bandwidth charges will be extra.  
Documentation: <https://cloud.ibm.com/docs/loadbalancer-service/getting-started.html>

 **Cloud Monitoring**  
  
IBM Cloud Monitoring is a managed enterprise grade monitoring service that provides operational visibility into the performance and health of applications, services and infrastructure. It offers administrators, DevOps teams and developers full stack telemetry with advanced features to monitor and troubleshoot, define alerts, and design custom dashboards.  
Documentation: <https://cloud.ibm.com/docs/monitoring?topic=monitoring-getting-started#getting-started>

 **Cloud Native Storage and Data Service**  
  
Robin Cloud Native Storage and Data Service brings high performance storage and application-aware data management to Kubernetes. It is a IBM certified operator that installs natively on IKS and OpenShift and delivers block and file storage for stateful applications such as databases, data analytics, and AI/ML applications. Robin CNS automates storage and data management operations on OpenShift and provides a simple API for developers and DevOps teams so that they can easily manage stateful applications without having to become storage experts  
&nbsp;  
&nbsp;  
GETTING SUPPORT  
This product is provided and supported by Robin.io. Robin support is available 24x7x365. Please reach out to Robin on Slack (slack.robin.io) for immediate assistance. Alternatively you can contact Robin support by emailing support@robin.com. Include a contact information and any details you can provide on the issue. Please include severity of the issue in the subject line. Robin will reply back within 24 hours.  
Documentation: <https://docs.robin.io/storage/latest/>

 **Cloud Object Storage**  
  
IBM Cloud Object Storage is a highly scalable cloud storage service, designed for high durability, resiliency and security. Store, manage and access your data via our self-service portal and RESTful APIs. Connect applications directly to Cloud Object Storage use other IBM Cloud Services with your data.  
Documentation: <https://cloud.ibm.com/docs/cloud-object-storage?topic=cloud-object-storage-getting-started-cloud-object-storage>

 **Cloud Object Storage (Classic)**  
  
Object storage is ideal for cost-effectively storing large volumes of unstructured data with durability, security, availability and reliability. Store content for your analytics, IoT, social, cognitive and mobile workloads, or for archiving and backup. Store and access your unstructured data via our self-service portal and APIs.  
Documentation: <https://console.bluemix.net/docs/infrastructure/cloud-object-storage-infrastructure/about-cos.html>

 **Cloud Reservations for VPC**  
  
IBM’s next-generation public cloud infrastructure, IBM Cloud VPC (virtual private cloud), offers customers up to a 60% discount through IBM Cloud Reservations pricing – now available on IBM Cloud Virtual Servers for VPC. Customers can create 1-year and 3-year capacity reservations at significantly lower prices when compared to current, on-demand prices inside IBM Cloud VPC. The freedom to choose between multiple payment options when building high-performance clouds is here.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-about-reserved-virtual-servers-vpc>

 **Cloud Secure Virtualization**  
  
Protect your workloads and simplify compliance using IBM Cloud Secure Virtualization.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/index.html>

 **Cloudant**  
  
IBM Cloudant is a fully managed JSON document database that offers independent serverless scaling of provisioned throughput capacity and storage. Cloudant is compatible with Apache CouchDB and accessible through a simple to use HTTPS API for web, mobile, and IoT applications. Cloudant is SOC2 and ISO 27001 compliant with HIPAA readiness optional for Dedicated Hardware environments. Cloudant Standard plan instances come with a 99.99% SLA. All data is encrypted at rest and over the wire. Cloudant JSON documents are stored in triplicate across three separate availability zones for in-region HA/DR in regions that support AZ's. Any Cloudant instance deployed from the Frankfurt region/location will be in an EU-managed environment. See https://ibm.com/cloud/cloudant, or select View docs from the Actions menu for more details. Use the new Standard on Transaction Engine plan which offers cheaper storage and query costs, strongly consistent reads, scalable and consistent global secondary indexes, elimination of in region document conflicts, and additional in database encryption of data values.  
Documentation: <https://cloud.ibm.com/docs/Cloudant>

 **Code Engine**  
  
Run your container, source-code, application, or batch job on a fully managed runtime. Go live in seconds and pay only for what you use. Scale up and down – even to zero.  
Documentation: <https://cloud.ibm.com/docs/codeengine?topic=codeengine-getting-started>

 **Cognos Dashboard Embedded**  
  
The IBM Cognos Dashboard Embedded lets you, the developer, painlessly add end-to-end data visualization capabilities to your application so your users can easily drag and drop to quickly find valuable insight and create visualizations on their own.  
Documentation: <https://console.bluemix.net/docs/services/cognos-dashboard-embedded/index.html>

 **Compliance and Customer Experience Automation**  
  
Cognitive View monitors customer and employee interactions to help firms meet compliance, reduce conduct risk, and improve customer experience. It proactively detects security, data loss, and compliance risks across all communication channels, enabling firms to meet compliance, reduce conduct risk and improve customer experience.  
  
  
Compliance & Conduct risk  
- Voice, video, and text analytics to automate workforce monitoring  
- Customer conversation analytics to ensure there are no compliance and conduct risk  
- Monitors employee conversations for lousy behavior patterns, including racism, sexual harassment, stalking, and bullying, to end toxic work culture.  
  
Customer Experience & Complaints  
- Sentiment & tone analysis  
- Predict customer concern & churn early and prevent complaints escalation  
  
Complaint Insights  
- Industry-wide complaint reference data to support dispute resolution professionals in helping of faster decission making process  
- Learn more about past and emerging complaint patterns, top compliance issues, and industry trends  
- Compare & benchmark complaints & process gaps against the industry peers or product lines to identify systemic risks, improvements made, and opportunities for improvement.  
  
  
In addition, Cognitive View offers custom pricing for advanced modules like compliance, conduct risk, and video analytics which is not mentioned here. Please connect with mailto:sales@cognitiveview.com to discuss your requirements.  
  
Support Information:  
  
Customers can submit issues directly to our support team from our website: https://help.cognitiveview.com (24/7/365). The site allows customer to submit an issue report or leave a message through the chat support. Please include as much detail as possible on the issue. Online support is available during standard business hours (M-F 10:30 AM -9 PM AEST). Off-hours support is finite and responses may be delayed.  
  
To submit additional information, include attachments/screenshots, or escalate an urgent issue, please e-mail us at support@cognitiveview.com.  
  
A member of our team will respond immediately upon receipt. For further information please visit: https://www.cognitiveview.com/  
Documentation: <https://help.cognitiveview.com/hc/en-us/categories/360003768493-Cognitive-View-Platform-Documentation>

 **Container Registry**  
  
Manage Docker container images in a fully managed private registry. Push private images into this registry to run them in IBM Cloud Kubernetes Service and other runtime environments. Images are checked for security issues, so that you can make informed decisions about your deployments.  
Documentation: <https://cloud.ibm.com/docs/Registry?topic=Registry-getting-started>

 **Container Security Services**  
  
Integrate security across the software development lifecycle (SDLC) and help bring Security Professionals and DevOps together to transform into a consolidated set of practices called DevSecOps, for rapid and secure software development and deployment.   
  
Our security services include assessment, solution design, implementation and managed security services for all phases of container lifecycle, backed by expertise and technologies to automate security processes within the development pipeline.   
  
As a trusted security advisor and partner, we can help enterprises overcome the security challenges of all major container risk areas.  
Documentation: <https://cloud.ibm.com/docs>

 **Content Delivery Network**  
  
Your users are expecting faster load times for your web applications.  
  
Improve your users’ experience and reduce bounced sessions by delivering content at record speed and caching content closer to your users on the Akamai network.  
   
Avoid network traffic jams, decrease latency, and optimize the performance of your overall cloud solution.   
  
We’ve partnered with Akamai, a best-of-breed CDN provider, to create one of the world’s fastest and most reliable content delivery networks.   
  
Take advantage of superior web/mobile performance and video delivery solutions – all underpinned by exceptional customer service and 24/7 monitoring.   
  
You can count on our partnership to support and maximize your business outcomes, each step of the way.  
Documentation: <https://cloud.ibm.com/docs/CDN>

 **Continuous Delivery**  
  
Use Continuous Delivery to automate builds, unit tests, deployments, and more. Push code using Git Repos and Issue Tracking. Identify vulnerabilities in source code. Create toolchains to enable tool integrations that support your development, deployment, and operation tasks.  
Documentation: <https://cloud.ibm.com/docs/services/ContinuousDelivery?topic=ContinuousDelivery-getting-started>

 **Converlistics**  
  
Converlistics provides Enterprise Observability, component traceability, and reuse for chatbots. Our end-to end platform allows teams to manage, understand, iterate, and enhance the Virtual Agents & ChatBots that run your business.  
  
  
We support Google Dialogflow CX, Kore.ai, Watson Assistant Dialog, and AWS Lex v2. Component merge export functions are currently limited to AWS Lex v2 and Watson Assistant Dialog. EG: You may merge Kore.ai and DialogflowCX components, but any export of the merge must be to AWS Lex V2 or IBM Watson Dialog  
Documentation: <https://converlistics.com/documentation/>

 **Cost and Asset Management**  
  
Cost and Asset Management service provides visibility, governance and control over hybrid cloud usage. Gain key insights into costs and assets through defined policies on budgets, asset usage and costs. Use the provided resources to get started with the service.  
Documentation: <http://camserviceprod.mybluemix.net/doc>

 **CrushBank**  
  
CrushBank Technology created the award-winning AI Knowledge Management system that uses trustworthy AI from IBM WatsonX to transform IT support, enabling faster resolutions, fewer escalations, and unparalleled analytics. CrushBank creates Smart Data for your business filling critical gaps in support information, leading to enhanced client relations and better outcomes.   
Documentation: <https://support.crushbank.com/knowledge>

 **Custom Migrations and Disaster Recovery as a Service**  
  
This is a fully-managed and accelerated way of taking your current environment, be it on-premises or cloud, and backing it or migrating it to your desired IBM cloud account and region.   
  
  
With this offering you can backup, restore, and migrate:  
  
- On Prem IBM Power System LPARs (AIX, IBMi, x86, Linux on Power )  
- IBM Cloud VSIs & Data  
- SAP on VMWare and HANA DB (On-Prem or IBM Cloud)  
- VMware VMs and Data (On-Prem or Cloud)  
- On Premise Linux, Window, Data, OpenShift, K8s, Data  
- Kubernetes and Red Hat Openshift  
- IKS and ROKS clusters  
- AWS VMs, Data, EKS, VPC Resources  
- Google Cloud VMs, GKE, Data, and Workloads  
- Microsoft Azure VMs, AKS, Data and workloads  
  
to:  
  
- IBM Cloud  
- IBM Cloud Classic  
- IBM Cloud Satellite (for Red Hat Openshift)  
  
  
Disaster Recovery Setup and Migration scenarios coverage;  
  
- VMware (on-premise) to Cloud  
- SAP workloads on VMware (on-premise) to Cloud  
- SAP HANA Database to Cloud  
- VMware (on-premise) to VMware on Cloud  
- Red Hat Openshift to Red Hat Openshift on Cloud  
- Kubernetes deployments from on-prem or other public clouds  
- Linux Servers (RHEL, Ubuntu, CentOS, SUSE, Debian versions supported by cloud)  
- Windows Servers (versions supported by cloud)  
- Data and Storage   
  
Our team of experts leverage our VPC+ Automation Suite which is hosted on IBM Cloud to fast-track the entire process and eliminate the long, complicated and error-prone manual processes.  
  
There are two categories of this offering:  
  
- Disaster Recovery as a Service  
- Migrations as a Service  
  
Disaster Recovery as a Service:  
  
- Minimum of 1 year subscription  
- Kick-off, Onboard the customer on VPC+  
- Discover source environment  
- Setup Cloud VPC Infrastructure for DR  
- Backup workloads to cloud object store  
- Configure DR scenario according to customer RPO, RTO goals  
- Provide cloud support for the DR setup  
- Customer to facilitate access and actively collaborate with Wanclouds  
- All source OSs and software must be compatible with cloud  
  
  
Migrations as a Service (MaaS):  
  
The following tasks are involved:  
- Kick-off  
- Project/Program Management   
- Discover the source environment  
- Workout migration timeline and schedule  
- Design and Setup the Cloud environment   
- Perform the migration in the least disruptive manner using VPC+  
- Verify that everything is working as expected  
- Customer to facilitate access to the source and cloud environments and actively collaborate with Wanclouds  
- Migration tasks are completed within 4-6 weeks  
- Post Migration cloud support   
- Options of 1 month, 3 months, 1 year  
- 8x5 workdays - support portal   
- All source OSs and software must be compatible with cloud  
  
  
Why choose Wanclouds ?  
  
- Fast, simple, and accelerated timelines  
- Comprehensive coverage for diverse resources and platforms  
- Efficient RTO and Flexible RPO  
- Setup Cold DR, Warm DR, or Hot DR  
- Comprehensive - Single Pane of Glass for VMware, SAP, Kubernetes, Data, and Cloud Infra.  
- Flexible DR - On-Prem to Cloud and across Clouds  
- Encryption - in transit and at rest  
- Non-Disruptive to running environments  
- Cost-effective  
- Fully managed - no need to learn clouds, multiple tools  
  
  
  
Learn more: https://www.wanclouds.net/ibm  
  
For any help, please go to https://support.wanclouds.net or email us at support@wanclouds.net  
For sales related queries, please contact usat sales@wanclouds.net  
Documentation: <https://docs.wanclouds.net/ibm>

 **CyberStrong by CyberSaint**  
  
CyberSaint is an innovative company delivering a powerfully automated Cyber Risk Management platform, CyberStrong. Fortune 50 titans and high-growth startups alike rely on CyberSaint's platform to achieve real-time risk management and continuous compliance from assessment to Boardroom.  
  
CyberStrong empowers CISOs, CIOs, cyber risk professionals and IT compliance teams to mitigate even the most unprecedented risks while automating control compliance assessments at scale. Customers leverage CyberSaint to standardize on frameworks and standards, implement risk quantification, and communicate their real-time cybersecurity posture- leading to faster, more informed decision-making at the executive level and millions in cost-savings.  
Documentation: <https://support.cybersaint.io/hc/en-us/categories/8496076977165-Knowledge-Library>

 **Data Engine (previously SQL Query)**  
  
Data Engine is IBM Cloud's central service for data lakes. It provides stream ingestion, data preparation, ETL, and data query from Object Storage and Kafka. It also manages tables and views in a catalog that is compatible with Hive metastore and other big data engines and services can connect to it. Data Engine supports full standard ANSI SQL to submit work as serverless jobs. There is no infrastructure to manage. The service is highly available, offers a Multi-AZ deployment, and autoscales based on your workload.  
Documentation: <https://cloud.ibm.com/docs/services/sql-query/sql-query.html>

 **Data Replication**  
  
Data Replication provides efficient change data capture and near real-time data delivery with transactional integrity to support big data integration and consolidation, warehousing and analytics initiatives at scale. It provides you the flexibility to replicate data between a variety of sources and targets.  
Documentation: <https://dataplatform.cloud.ibm.com/docs/content/wsj/manage-data/rep-data-ovr.html?context=cpdaas>

 **Databases for DataStax**  
  
DataStax is a scale-out NoSQL database built on Apache Cassandra, designed for high-availability and workload flexibility. Databases for DataStax makes DataStax even better by managing it for you. Features include high availability, automated backup orchestration, and de-coupled scaling of storage, RAM, and vCPUs. Databases for DataStax pricing is based on underlying disk, RAM, and vCPU allocation, as well as backup storage usage. The service is HIPAA-Ready and compliant with PCI-DSS, SOC 1 Type 2, SOC 2 Type 2, ISO 27001, ISO 27017, ISO 27018, ISO 27701, and GDPR. You can also learn more by viewing docs, API docs, and terms.  
Documentation: <https://cloud.ibm.com/docs/databases-for-cassandra>

 **Databases for EDB**  
  
EDB (formerly known as EnterpriseDB) is a PostgreSQL-based database engine optimized for performance, developer productivity, and compatibility with Oracle. Databases for EDB is a fully managed offering with 24x7 operations and support, Features include high availability, automated backup orchestration, and de-coupled scaling of storage, RAM, and vCPUs. Databases for EDB pricing is based on underlying disk, RAM, and vCPU allocation, as well as backup storage usage. is HIPAA-Ready and compliant with PCI-DSS, SOC 1 Type 2, SOC 2 Type 2, ISO 27001, ISO 27017, ISO 27018, ISO 27701, and GDPR. You can also learn more by viewing docs, API docs, and terms.  
Documentation: <https://cloud.ibm.com/docs/databases-for-enterprisedb>

 **Databases for Elasticsearch**  
  
Elasticsearch combines the power of a full text search engine with the indexing strengths of a JSON document database to create a powerful tool for rich data analysis on large volumes of data. Databases for Elasticsearch makes Elasticsearch even better by managing it for you. Features include high availability, automated backup orchestration, autoscaling, and de-coupled allocation of storage, RAM, and vCPUs. Databases for Elasticsearch pricing is based on underlying disk, RAM, and optional vCPU allocation, as well as backup storage usage. The service is HIPAA-Ready and compliant with PCI-DSS, SOC 1 Type 2, SOC 2 Type 2, ISO 27001, ISO 27017, ISO 27018, ISO 27701, and GDPR. You can also learn more by viewing docs, API docs, and terms.  
Documentation: <https://cloud.ibm.com/docs/databases-for-elasticsearch>

 **Databases for etcd**  
  
etcd is a key value store developers can use to coordinate and manage server clusters or provide lightning fast metadata storage. Databases for etcd makes etcd even better by managing it for you. Features include high availability, automated backup orchestration, autoscaling, and de-coupled allocation of storage, RAM, and vCPUs. Databases for etcd pricing is based on underlying disk (IOPS), RAM, and optional vCPU allocation, as well as backup storage usage. The service is HIPAA-Ready and compliant with PCI-DSS, SOC 1 Type 2, SOC 2 Type 2, ISO 27001, ISO 27017, ISO 27018, ISO 27701, and GDPR. You can also learn more by viewing docs, API docs, and terms.  
Documentation: <https://cloud.ibm.com/docs/databases-for-etcd>

 **Databases for MongoDB**  
  
MongoDB is a JSON document store with a rich query and aggregation framework. Databases for MongoDB makes MongoDB even better by managing it for you. Features include high availability, automated backup orchestration, autoscaling, and de-coupled allocation of storage, RAM, and vCPUs. Databases for MongoDB pricing is based on underlying disk and RAM allocation, as well as backup storage usage. MongoDB Standard and Enterprise is HIPAA-Ready and compliant with PCI-DSS, SOC 1 Type 2, SOC 2 Type 2, ISO 27001, ISO 27017, ISO 27018, ISO 27701, and GDPR. You can also learn more by viewing docs, API docs, and terms.  
Documentation: <https://cloud.ibm.com/docs/databases-for-mongodb>

 **Databases for MySQL**  
  
MySQL is a fast, easy-to-use, and flexible RDBMS. As the central component of the LAMP (Linux, Apache, MySQL and PHP) web service model, it sports a number of connectors, including Python, PHP and C++ for development needs. Databases for MySQL makes MySQL even better by managing it for you. Features include high availability, automated backup orchestration, autoscaling, and de-coupled allocation of storage, RAM, and vCPUs. Databases for MySQL pricing is based on underlying disk, RAM, and optional vCPU allocation, as well as backup storage usage. You can also learn more by viewing docs, API docs, and terms.  
Documentation: <https://cloud.ibm.com/docs/databases-for-mysql>

 **Databases for PostgreSQL**  
  
PostgreSQL is a powerful, open source object-relational database that is highly customizable. It’s a feature-rich enterprise database with JSON support, giving you the best of both the SQL and NoSQL worlds. Databases for PostgreSQL makes PostgreSQL even better by managing it for you. Features include high availability, automated backup orchestration, autoscaling, and de-coupled allocation of storage, RAM, and vCPUs. Databases for PostgreSQL pricing is based on underlying disk, RAM, and optional vCPU allocation, as well as backup storage usage. The service is HIPAA-Ready and compliant with PCI-DSS, SOC 1 Type 2, SOC 2 Type 2, ISO 27001, ISO 27017, ISO 27018, ISO 27701, and GDPR. You can also learn more by viewing docs, API docs, and terms.  
Documentation: <https://cloud.ibm.com/docs/databases-for-postgresql>

 **Databases for Redis**  
  
Redis is an open source, in-memory data structure store, used as a database, cache and message broker. It supports data structures such as strings, hashes, lists, sets, sorted sets with range queries, bitmaps, hyperloglogs and geospatial indexes with radius queries. Databases for Redis makes Redis even better by managing it for you. Features include high availability, automated backup orchestration, autoscaling, and de-coupled allocation of storage, RAM, and vCPUs. Databases for Redis pricing is based on underlying disk, RAM, and optional vCPU allocation, as well as backup storage usage. The service is HIPAA-Ready and compliant with PCI-DSS, SOC 1 Type 2, SOC 2 Type 2, ISO 27001, ISO 27017, ISO 27018, ISO 27701, and GDPR. You can also learn more by viewing docs, API docs and terms.  
Documentation: <https://cloud.ibm.com/docs/databases-for-redis>

 **DataStage**  
  
IBM® DataStage® offers industry-leading batch and real-time data integration to build trusted data pipelines across on-premises and hybrid cloud environments allowing any integration style (ETL, ELT) to prepare data for AI.  
Documentation: <https://dataplatform.cloud.ibm.com/docs/content/wsj/landings/datastage.html>

 **Db2**  
  
A fully-managed cloud SQL database. Powered by a turbo-charged Db2 engine.  
Documentation: <https://test.cloud.ibm.com/docs/Db2onCloud?topic=Db2onCloud-getting-started>

 **Db2 Warehouse**  
  
IBM Db2 Warehouse on Cloud is a fully-managed, enterprise-class, cloud data warehouse service. Powered by IBM BLU Acceleration, Db2 Warehouse on Cloud provides you with unmatched query performance. The service is offered in multiple form factors: SMP for cost-effective cloud data warehousing, and MPP for high-performance parallel query processing and high availability.  
Documentation: <https://cloud.ibm.com/docs/Db2whc?topic=Db2whc-getting-started>

 **Dedicated Host for VPC**  
  
Dedicated Hosts for VPC are single-tenant hosts that are available exclusively for your use.  Dedicated hosts provide the flexibility for you to use your own software licenses, and provide maximum isolation and control over instance placement to help address corporate compliance and regulatory requirements.   
  
  
Dedicated host groups are built into the solution and can help you define one or more dedicated hosts for a specific business purpose.  
Documentation: <https://test.cloud.ibm.com/docs/vpc?topic=vpc-creating-dedicated-hosts-instances>

 **Direct Link Connect**  
  
IBM Cloud Direct Link Connect offers private access to your IBM Cloud infrastructure and to any other clouds linked to your Network Service Provider, through your local IBM Cloud data center. This option is perfect for creating multi-cloud connectivity in a single environment. We connect customers to the IBM Cloud private network, using a shared bandwidth topology. As with all Direct Link products, you can add global routing that enables private network traffic to all IBM Cloud locations.  
Documentation: <https://console.bluemix.net/docs/infrastructure/direct-link/getting-started.html>

 **Direct Link Connect on Classic**  
  
IBM Cloud Direct Link Connect offers private access to your IBM Cloud infrastructure and to any other clouds linked to your Network Service Provider, through your local IBM Cloud data center. This option is perfect for creating multi-cloud connectivity in a single environment. We connect customers to the IBM Cloud private network, using a shared bandwidth topology. As with all Direct Link products, you can add global routing that enables private network traffic to all IBM Cloud locations.  
Documentation: <https://cloud.ibm.com/docs/direct-link>

 **Direct Link Dedicated**  
  
This is the 2.0 version of Direct Link. IBM Cloud Direct Link helps ensure the security of sensitive data to and from the IBM Cloud. Back up or store huge volumes of data from your data center on IBM Cloud with predictable bandwidth costs. With a dedicated network connection, your transfer rates are fast, consistent and reliable.  
  
Secure  
Protect your sensitive, business-critical data by controlling every hop of its network path and avoiding exposure to the public internet.  
  
Secure  
Protect your sensitive, business-critical data by controlling every hop of its network path and avoiding exposure to the public internet.  
  
Reliable  
Designed for customers that need more consistent, higher-throughput connectivity between a remote network and their IBM Cloud environments.  
Documentation: <https://console.bluemix.net/docs/infrastructure/direct-link/getting-started.html>

 **Direct Link Dedicated Hosting on Classic**  
  
IBM Cloud can arrange the acquisition of colocation space that fits your needs. As with all Direct Link products, you can add global routing that enables private network traffic to all IBM Cloud locations.  
Documentation: <https://cloud.ibm.com/docs/direct-link>

 **Direct Link Dedicated on Classic**  
  
IBM Cloud Direct Link Dedicated is a single-tenant product. It offers a dedicated port that is perfect for banks, insurance companies or anyone with strict compliance policies. Create a fiber cross-connection through a network service provider (NSP) in an IBM Cloud network point of presence (PoP). Our engineers facilitate end-to-end connectivity with your selected NSP, and you have access to your cloud infrastructure in the local IBM Cloud data center. The NSP runs last-mile links directly between a router on your network and an IBM Cloud router. As with all of the Direct Link products, you can add global routing that enables private network traffic to all IBM Cloud locations.  
Documentation: <https://cloud.ibm.com/docs/direct-link>

 **Direct Link Exchange on Classic**  
  
IBM Cloud Direct Link Exchange offers multi-tenant connections to your IBM Cloud infrastructure, through your local IBM Cloud data center. This option is perfect for creating multi-cloud connectivity in a single environment. We connect customers to the IBM Cloud private network, using a shared bandwidth topology. You can aggregate your MPLS, VPLS, or EVPN into the IBM Cloud network over VLANs, using one of our global network and exchange providers. As with all Direct Link products, you can add global routing that enables private network traffic to all IBM Cloud locations.  
Documentation: <https://cloud.ibm.com/docs/direct-link>

Picture 62 **Dizzion DaaS**  
  
For sales support, reach out to Dizzion directly at:  
  
Phone: 888-225-2974 Opt. 1  
Email: Channel@dizzion.com  
  
  
For product support, reach out to Dizzion directly at:  
  
Phone: 888-225-2974 Opt. 2  
Email: support@dizzion.com  
Online: https://c3.dizzion.com  
Documentation: <https://help.dizzion.com/>

Picture 63 **Dizzion Digital Workspaces - Complete**  
  
Putting the service in Desktop as a Service, this offering is perfect for organizations who want a completely hands-off approach. Not only do we manage your deployment, but we also host it for you on our infrastructure.  
  
Instill confidence in maintaining compliance within your digital workspace environment and free up resources with Complete+. We take complete ownership of managing the digital workspace brokering technology, the full desktop lifecycle, as well as compliance, security, and maintenance, taking a true white glove approach.  
  
Key Benefits:  
- Deliver a consistent user experience  
- Address data security concerns  
- Streamline operations and reduce risk  
- Full-stack service from a single vendor  
- Achieve PCI, HIPAA, or SOC compliance attestation​  
- IBM Financial Services Validated   
  
For sales support, reach out to Dizzion directly at:  
  
Phone: 888-225-2974 Opt. 1  
Email: Channel@dizzion.com  
  
For product support, reach out to Dizzion directly at:  
  
Phone: 888-225-2974 Opt. 2  
Email: support@dizzion.com  
Online: https://c3.dizzion.io  
Documentation: <https://support.dizzion.com>

 **DNS Services**  
  
DNS Services provides a reliable, secure mechanism to manage DNS records, and resolve domain names from a VPC without adding a custom DNS solution. With DNS Services, you can   
- Create private DNS zones which can only be resolved from IBM Cloud's private network.  
- Perform forward and reverse DNS lookup.  
- Configure zone names with a split-horizon view, which allows a private and a public DNS zone to share the name.  
Documentation: <https://cloud.ibm.com/docs/infrastructure/dns-svcs/getting-started.html>

 **Dubber Unified Recording**  
  
AI-enriched communications that delivers rich enterprise-wide insights and intelligence based on conversation data and business intelligence. Unify recordings and data from multiple services and end-points.  
Elevate customer experience, ensure compliance and business outcomes by creating deeply integrated solutions with CRM, contact centre and big data sets.  
Documentation: <https://drive.google.com/file/d/1SyNaKpawil8Oh0-dy6vWeIhQxnBFliff/view?usp=sharing>

 **Email Delivery, powered by Sendgrid**  
  
Your business relies on getting email to the inbox. Your email delivery rate—the rate at which your emails actually make it to the inbox—is the most important metric for your email program's success. While no one can guarantee email deliverability, with SendGrid you can be confident that you’ll have the tools and the expertise you need to optimize your inbox delivery rate.  
  
As a SendGrid customer, your sending is enhanced with artificial intelligence that continually adapts to changing ISP rules. Businesses large and small can increase their delivery rates with ACE, our Adaptive Communication Engine. The SendGrid team's collective knowledge of email best practices is becoming an encoded AI across our platform, further heightening your deliverability and throughput.  
  
We partner with the ISP, compliance, and delivery communities to fight spam and keep email safe for all. We are trusted to work with only the best senders, and use our whitehat position in the industry to advocate for our customers.  
Documentation: <https://cloud.ibm.com/docs/infrastructure/email-delivery>

Picture 67 **etiCloud secure digital agile workplace**  
  
Agile Digital Workplace:  
Access documents, files, emails and relevant applications quickly and securely, anytime, anywhere – enabling a truly agile digital workplace to improve cost and time efficiencies.  
  
Computing in the modern workplace:  
When it comes to the computing experience in your business, how easy is it for you to access the system and relevant applications? Chances are you’re rolling your eyes because it’s probably a little hit and miss. Right?  
  
If you’re office-based, do you find yourself turning on your laptop and heading to the kitchen to make coffee while the system loads? When you’re travelling on a train, do you have to wait ages to open a single file? And if you’re working from home, do you get frustrated with how long it takes to send an email? Have you simply got used to circumventing the workflow to allow for inefficiencies in the existing IT system?  
  
Many UK companies and organisations employ a range of functionality to deliver IT. A mix of Cloud, on-premise and legacy systems in place, all evolving over time, can lead to an inefficient and cumbersome platform that is simply not fit for purpose. This poses challenges for everyone from end users to IT teams:  
  
Difficulty in accessing information quickly and reliably, irrespective of whether you’re in the office or on the move  
Different passwords for different systems  
Inadequate cybersecurity protocols for remote working access  
Having uniform, fast, secure and reliable ‘round-the-clock’ access to every piece of information you need to do your job efficiently and effectively is imperative for commercial success. Irrespective of your location, whether you’re office-based or on the move, you need data, documents, files, spreadsheets, emails and everything in between instantly at your fingertips. Not possible? Think again. With etiCloud Agile Digital Workplace you can have all of this, and more, in one single place.  
Documentation: <https://everythingthatis.cloud>

 **Event Notifications**  
  
IBM Cloud® Event Notifications is an event notification routing service that notifies you to critical events that occur in your IBM Cloud account or triggers automated actions by using webhooks. You can filter and route event notifications from IBM Cloud services to Email, SMS, Webhooks and Push Notifications.  
Documentation: <https://cloud.ibm.com/docs/event-notifications>

 **Event Streams**  
  
Event Streams on IBM Cloud is a fully managed, high-throughput message bus built on Apache Kafka that enables applications and services to communicate. It is optimized for event ingestion into IBM Cloud and event distribution between your services and applications. Event Streams on IBM Cloud allows you to deploy production ready Apache Kafka and build cloud native apps in a secure and highly available environment.  
Documentation: <https://console.cloud.ibm.com/docs/EventStreams/index.html#getting_started>

 **F5 BIG-IP**  
  
Optimize performance and ensure availability and security for applications with the F5 BIG-IP suite.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/f5_considerations.html>

Picture 71 **FalconStor StorSafe VTL for Power On-Premises**  
  
FalconStor StorSafe Virtual Tape Library (VTL) is a software solution that optimizes backup and restore, to improve performance and significantly reduce backup storage costs, all without requiring changes to the existing backup solution currently being used. With its integrated deduplication, the solution removes redundant copies of data, thereby reducing capacity requirements, decreasing storage costs, and minimizing replication and restore times. StorSafe VTL can be used with all leading backup solutions, and enables both hybrid and native-cloud backup, as well as both workload and tape migration to the cloud, including IBM PowerVS.  
   
For a free assessment, contact a solution expert at ibmsales@falconstor.com.  
  
Documentation: <https://falconstor-download.s3.us-east.cloud-object-storage.appdomain.cloud/FalconStor%20StorSafe%20for%20IBM%20Power%20Deployment%20Guide.pdf>

Picture 72 **File Storage for Classic**  
  
Add fast and flexible NFS-based file storage to your IBM Cloud portfolio. Get total control and help minimize costs with flash-backed architecture. Create file shares from 20GB to 12TB—and provision it all with a variety of flexible and power-based options.   
  
Choose Endurance tiers for simple, predefined, per-GB pricing—ideal for workloads without well defined performance requirements.   
Or, build a fine-tuned environment with allocated IOPS with Performance options—ideal for well-understood workload requirements that fall outside of the available Endurance tiers.  
Documentation: <https://cloud.ibm.com/docs/infrastructure/FileStorage/index.html#getting-started-with-file-storage>

 **File Storage for VPC**  
  
The IBM Cloud® File Storage for VPC service provides secure, persistent, NSFv4.1 protocol-based file storage. IBM Cloud® File Storage for VPC is backed by All-Flash architecture. You can create file shares with capacity that ranges from 10 GB to 32 TB with flexible options. You can mount the file share on multiple IBM Cloud Virtual Servers for file sharing and collaboration. You have total control over your data as you manage access to the file shares with IAM profiles, security groups, and context-based restrictions. You can also bring your own root keys to add another layer of encryption. You can manage your cost by provisioning only what you need. You can increase the share capacity later when you need more storage, and you can adjust the IOPS to increase or decrease performance anytime.  
Documentation: [https://cloud.ibm.com/docs/vpc?topic=vpc-file-storage-create&amp;interface=ui](https://cloud.ibm.com/docs/vpc?topic=vpc-file-storage-create&interface=ui)

 **Floating IP for VPC**  
  
Reserve a Floating IP to use with virtual server instances (VSI) in a virtual private cloud (VPC). Each Floating IP gives your VSIs access to the public Internet, and vice versa  
Documentation: <https://cloud.ibm.com/docs/infrastructure/vpc/getting-started.html>

 **Flow Logs for VPC**  
  
IBM Cloud Flow Logs for VPC is an add-on feature to IBM Cloud VPC Gen2, enabling the collection of information about the IP traffic going to and from network interfaces in your VPC. Flow logs can help with a number of tasks; for example, to troubleshoot why specific traffic is not reaching an instance, which in turn helps to diagnose security group rules. You can also use flow log output as a source for applications that analyze traffic that is reaching your resources. Flow logs is a critical tool for determine the overall health of network monitoring and root cause analysis.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-flow-logs>

 **FNTS Managed Services for PowerVS Cloud**  
  
FNTS will provide managed services for PowerVS instances (LPARs) running IBM i or AIX. Services include OS troubleshooting support, system monitoring, alerting, fix management, configuration and capacity management. If your environment includes multiple data centers, FNTS can support several options for data replication to PowerVS based on your business continuity requirements, but it is outside the scope of this service.  
  
  
FNTS complies with PCI and Soc 2 Type II standards and will support you in your efforts to meet HIPAA and GDPR compliance requirements.  
  
  
This service is designed for the management of new or existing PowerVS environments. Additional services are available from FNTS for migrating Power LPARs to PowerVS, and performing backup and DR replication services. Contact FNTS at https://www.fnts.com/contact-us for an initial consultation.   
  
  
  
Documentation: <https://www.fnts.com/cloud/ibm-power-cloud>

 **FortiGate Security Appliance**  
  
Order and provision an HA-pair of FortiGate Security Appliance devices through IBM Cloud to protect your network.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/fsa_considerations.html>

 **FortiGate Security Appliance 10Gbps**  
  
This high throughput, single-tenant firewall can be configured to protect traffic on multiple VLANs for both public and private networks. To order, navigate to Security > Network Security > Firewalls, then click on the Order Multi VLAN Firewall link in the top right corner.  
Documentation: <https://cloud.ibm.com/docs/infrastructure/fortigate-10g/getting-started.html>

 **FortiGate Virtual Appliance**  
  
Optimize performance and ensure availability and security for applications with the Fortinet FortiGate-VM suite.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/fortinetvm_considerations.html>

 **Fortinet Virtual FortiGate Security Appliance (vFSA)**  
  
Protect your cloud infrastructure and optimize its performance with a gateway appliance.  
Documentation: <https://cloud.ibm.com/docs/infrastructure/vfsa?topic=vfsa-getting-started>

 **Functions**  
  
IBM Cloud Functions is a Function-as-a-Service (FaaS) platform which executes functions in response to incoming events.  
Documentation: <https://cloud.ibm.com/docs/openwhisk>

 **Hardware Firewall**  
  
Firewalls are an important step in securing your IBM IaaS environment (and all the information stored there) as well as preventing malicious activity from ever reaching your servers or end users. When added to your security strategy, hardware and software firewall options will help ensure uptime, protect your servers and network, and give you greater control of your infrastructure’s protection settings. To add a firewall to a server, click on the link Devices > Device List > Click the desired server > Configuration > Bottom of the page: Order Hardware Firewall in the customer portal. This will begin the order process for an appropriate firewall based on the uplink speed of the selected server.  
Documentation: <https://cloud.ibm.com/docs/infrastructure/hardware-firewall-shared>

 **HCX**  
  
Extend the networks of your on-premises data centers into IBM Cloud, and migrate your VMs to or from IBM Cloud without any change.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/f5_considerations.html>

 **HDM VMware Workload Analyzer**  
  
The PrimaryIO HDM Workload Analyzer helps to identify, analyze and recommend workloads best suitable for cloud or on-prem. PrimaryIO HDM Workload Analyzer has built-in smarts to analyze workload data/IO access patterns and provides insights to right size on-prem resources and efficiently leverage cloud. PrimaryIO HDM Workload Analyzer also works in a non-intrusive way to continuously monitor all data IO access across on-prem and cloud environments  
Documentation: <https://hdm.primaryio.com/lp/docs>

 **HDM VMware Workload Migrator**  
  
Organizations are embracing cloud computing. The HDM Workload Migrator service is designed to assist organizations that have a requirement to migrate their current on-prem, or network resident VMware workloads to the IBM Cloud. PrimaryIO has created a rapid, reliable migrator service, conducted by experts to shepherd customers moving from their current state to IBM Cloud.  
  
With a goal of reducing time, cost and risk, PrimaryIO’s experienced professional services team has created its fully managed, fixed price, HDM Workload Migrator Service that has been optimized to move customer VM workloads to the IBM Cloud. This moving of workloads from one environment to another is a detailed process requiring the determining of multiple variables including which workloads, from and to which specific environments, whether the necessary network connections and configurations are in place and when the migration will occur. This service leverages technology which reduces the time and risk of the migration, minimizing any duration of scheduled unavailability of resources.   
  
One of the common use cases for the Workload Migrator is for those organizations finding themselves charting their one-time path from VMware’s NSX-V to NSX T, due to end-of-life (EoL) status. This migration is a complex project comprised of a lengthy sequence of disparate activities and technologies. Depending on particulars, this migration can take anywhere up to six to eight calendar months to complete, coupled with a lack of clarity and predictability with regard to resources, time, bill-of-materials and ultimately, cost. Combining Workload Migrator service with our Fasttrack NSX-V to NSX T service (separate offering), a complete turnkey service is achievable for your NSX-V goal. The Migrator Service involves discrete, well-defined, rapid engagements that drive visible, quick turn-around progress, focussing on critical path milestones and objectives. Together, these two services offer a complete end-to-end service to bring an organization from an NSX-V environment to an NSX-T IBM Cloud resident environment – including the Workload Migrations.  
  
This “Migrator” is differentiated from, yet works in close conjunction with, the “Fasttrack” NSX V to NSX-T service due its pre-configured Statement of Work and associated per VM fixed price. In contrast, the Fasttrack NSX-V to NSX-T network infrastructure-oriented service supports customers with a tailored, customer-specific Statement of Work and associated options to include as a method of procurement.  
  
Benefits  
The HDM VMware Workload Migrator utilizes project management and technical expertise derived from experience in performing migrations. In addition, and importantly, migrations can utilize PimaryIO’s proprietary software that handles VM Workload migrations in an exceptional, differentiating manner.  
The Migrator Service can begin workload execution with only partial data having been migrated to the new destination environment. Between the human capital and intellectual capital, this service offers the following benefits:  
● Scheduled downtime is greatly reduced  
● Initial testing can be done much sooner  
● If problems are detected, retreating is faster, easier and more reliable  
● Migration duration is reduced and predictable  
● Network bandwidth requirements can be lessened  
● Cost is optimized and predictable  
  
Engagement Overview  
PrimaryIO’s HDM Migrator Service is comprised of four phases:  
Discover, Plan, Build and Migrate.  
   
Discover  
  
This Workshop-led initial phase engagement focuses on gathering critical information from the existing workload environment and its associated platform(s), along with size and complexity to ensure a fully prepared NSX-T and IBM Cloud target. Full customer participation and interaction will mitigate risk and result in a rapid and successful shifting of workloads.  
Discover is comprised of:  
● Current state assessment  
● IBM Cloud analysis  
● NSX-T validation (if applicable)  
● Assessment of size and complexity of existing configuration(s)  
● Customer/site-specific requirements  
Discover deliverables include:  
● Migration Options  
● Migration Approach  
  
Plan  
  
Plan phase of engagement focuses on generating the project-specific roadmap. Workshops include the Design Workshop with an outcome of detailed findings, migration options and planning. The concluding Solution workshop presents the migration design, timeline any remaining prerequisites and a clear view of the Build and Migrate phases.  
Plan is comprised of:  
● Identifying migration options  
● Developing the high-level design  
● Developing the high-level plan  
● Developing the timeline  
● Identifying the (out-of-scope) prerequisites for the migration   
Plan deliverables include:  
● Migration High-level Design  
● Migration High-level Plan & Timeline  
● Build & Migrate Scope and Tasks  
  
Build  
  
Build phase initiates with developing the detailed design and plan. Primed by the output of the prior two phases, Build enables the progression through the stages of NSX-T validation and proof-of-concept-testing. Aligned with these build stages, the Migration Schedule and Timeline are also developed to support the overall migration process along with suitable Roll Back plans where appropriate.  
Following successful testing and verification, the migration will continue in order to complete the final stage; the actual migration itself.  
Migration will continue based upon the chosen approach and the associated migration schedule and timeline. Each event will be tested and verified for success prior to sign off.   
Build is comprised of:  
● Developing the detailed design  
● Developing the detailed plan  
● Validating the target NSX-T configuration  
● Proof-of-Concept and associated testing  
● Generating the migration schedule  
Build deliverables include:  
● Detailed design  
● Detailed plan  
● Detailed Workload Migration Schedule  
  
Migrate  
  
Migrate is the phase for which the other phases have paved the way and mitigated all risks. The migration is executed, tested, verified and ultimately signed of on. The conclusion is that the VM Workloads are migrated to the destination NSX-T platform, allowing the older NSX-V platform to be retired.  
Migrate is comprised of:  
● Migration of the configuration  
● Migration of all VM workloads  
● Configuration and workload testing  
● Migration verification  
● Sign off  
  
Documentation: <https://hdm.primaryio.com/lp/migrator>

Picture 86 **Historical Instrument Analytics**  
  
Thirty years of financial engineering expertise at your fingertips. IBM Algorithmics pricing models are trusted by the world's largest financial institutions to meet their risk, performance, and regulatory needs.  
  
The Historical Instrument Analytics service supports the historical computation of the theoretical or market calibrated valuation, and all relevant associated analytics, for investment securities such as equities, fixed income, and derivatives. Leverage this service for building back-testing, performance attribution calculations, and end of month/quarter historical reporting.  
Documentation: <https://console.ng.bluemix.net/docs/services/HistoricalInstrumentAnalytics/index.html>

 **Horizon 7**  
  
A seamlessly integrated hybrid cloud for virtual desktops and applications based on VMware Horizon® 7.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/f5_considerations.html>

 **Hybrid Cloud Infrastructure as a Service**  
  
In particular, this offering is focused on US Federal Government Customers. IBM Consulting and VSO will provide Hybrid Cloud Infrastructure as a Service (HCIaaS) offering with a Cost-per-Unit model on the C2E vehicle. Offering Specifications: 4 nodes in 2RU chassis, each node containing 16 cores (2x Intel Xeon-Silver 4309Y processor - 2.8 GHz / 8-core / 105W, Ice Lake), 512GB of RAM, 2x 8TB hard drives, and 1x 2 TB solid state drive.  
Documentation: <https://cloud.ibm.com/docs>

 **Hyper Protect Crypto Services**  
  
A dedicated key management service and Hardware Security Module (HSM) provides you with the Keep Your Own Key capability for cloud data encryption. Built on FIPS 140-2 Level 4 certified hardware, Hyper Protect Crypto Services provides you with exclusive control of your encryption keys. With Unified Key Orchestrator, you can connect your service instance to keystores in IBM Cloud and third-party cloud providers, back up and manage keys using a unified system, and orchestrate keys across multiple clouds.  
Documentation: <https://cloud.ibm.com/docs/hs-crypto?topic=hs-crypto-get-started>

 **Hyper Protect Virtual Server for Classic**  
  
Create and run virtual servers on IBM LinuxONE, the industry's most secure Linux-based platform.  
Note:   
1. It is recommended that you create Hyper Protect Virtual Servers for VPC, the latest confidential computing as-a-service solution, in various regions at https://cloud.ibm.com/vpc-ext/provision/vs?architecture=s390x&secureExecution=true. When you select your image, ensure that you select "s390x architecture" and toggle on "Confidential computing - Run your workload with an OS and a profile protected by Secure Execution". For more information, see https://cloud.ibm.com/docs/hp-virtual-servers?topic=hp-virtual-servers-why-migrate.  
2. This service is deprecated from the IBM Cloud data center in Sydney. For more information, see https://cloud.ibm.com/docs/hp-virtual-servers?topic=hp-virtual-servers-whats-new#hp-virtual-servers-oct2623.  
Documentation: <https://cloud.ibm.com/docs/services/hp-virtual-servers?topic=hp-virtual-servers-getting-started>

 **HyTrust CloudControl**  
  
Provide automated protection and compliance support, enabling better visibility and control over your cloud environment and administrators.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/htcc_considerations.html>

 **HyTrust DataControl**  
  
Protect your data with powerful encryption and scalable key management to secure your workloads throughout their lifecycles.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/htdc_considerations.html>

 **HyTrust KeyControl**  
  
Provide scalable and highly available key management for your data security needs.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/htkc_considerations.html>

 **Image Service for VPC**  
  
Custom images are used to create new virtual server instances with your own settings and configurations. You can create a custom image on IBM Cloud in two ways:   
1. You can create a custom image on premises and import it to your IBM Cloud Virtual Private Cloud infrastructure from IBM Cloud Object Storage.   
2. You can create a custom image of a boot volume that is attached to a virtual server instance at import time. For more information, see [about creating an image](/docs/vpc?topic=vpc-image-from-volume-vpc).  
Images are private to the account that they're imported to. New virtual server instance deployments are limited to the region where the image is imported. For more information about importing custom images, see [importing custom images](/docs/vpc?topic=vpc-importing-custom-images-vpc). For more information about managing custom images, see [Managing custom images](/docs/vpc?topic=vpc-managing-custom-images).  
  
You have many considerations when you create a custom image, such as operating systems, image requirements, and whether you want to share your custom image to a private catalog. For more information about planning for custom images, see [planning for custom images](/docs/vpc?topic=vpc-planning-custom-images).  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-about-images>

 **Instance Metadata for VPC**  
  
Repository for metadata for VPC resources  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-getting-started>

Picture 96 **Instrument Analytics**  
  
Thirty years of financial engineering expertise at your fingertips. IBM Algorithmics pricing models are trusted by the world's largest financial institutions to meet their risk, performance, and regulatory needs.  
  
The Instrument Analytics service supports the current computation of the theoretical or market calibrated valuation, and all relevant associated analytics, for investment securities such as equities, fixed income, and derivatives.  
Documentation: <https://console.ng.bluemix.net/docs/services/InstrumentAnalytics/index.html>

 **Internet of Things Platform**  
  
This service is the hub for IBM Watson IoT and lets you communicate with and consume data from connected devices and gateways. Use the built-in web console dashboards to monitor your IoT data and analyze it in real time. Then, enhance and customize your IBM Watson IoT Platform experience by building and connecting your own apps by using messaging and REST APIs.  
Documentation: <https://www.ng.bluemix.net/docs/services/IoT/index.html>

 **Internet Services**  
  
Cloud Internet Services (CIS) is a FS Validated service (see terms: https://www.ibm.com/support/customer/csol/terms/?id=i126-8065). It provides reliability, performance, and security for Internet facing applications, websites, and services using Cloudflare's 300+ Global Points of Presence (PoPs). It includes Domain Name Service (DNS), Global Load Balancer (GLB), Distributed Denial of Service (DDoS) protection, Web Application Firewall (WAF), Transport Layer Security (TLS), and Caching.  
Documentation: <https://cloud.ibm.com/docs/cis?topic=cis-getting-started>

Picture 99 **Investment Portfolio**  
  
The Investment Portfolio service lets you store, update, and query your investment portfolios and associated holdings using flexible object definitions so you can store more information without worrying about format. With outstanding performance, flexible storage, filtering, and data retrieval, you can make informed and timely investment decisions quickly.  
Documentation: <https://console.bluemix.net/docs/services/InvestmentPortfolio/index.html>

 **IPSec VPN**  
  
VPN facilitates connectivity from your secure network to IBM IaaS platform’s private network. A VPN connection from your location to the private network allows for out-of-band management and server rescue through an encrypted VPN tunnel. Communicating using the private network is inherently more secure and gives users the flexibility to limit public access while still being able to access their servers. Any user on your account can be given VPN access, which is available as both SSL and PPTP. In addition IBM Bluemix also allows to establish a connection using IPSec.  
Documentation: <https://console.bluemix.net/docs/infrastructure/iaas-vpn/set-up-ipsec-vpn.html>

 **Juniper vSRX**  
  
Protect your cloud infrastructure and optimize its performance with a gateway appliance.  
Documentation: <https://cloud.ibm.com/docs/infrastructure/vsrx?topic=vsrx-getting-started>

 **Key Protect**  
  
Key Protect is a cloud-based security service that provides life cycle management for encryption keys that are used in IBM Cloud services or customer-built applications. Key Protect provides roots of trust (RoT), backed by a hardware security module (HSM).  
Documentation: <https://console.bluemix.net/docs/services/key-protect/index.html>

 **KMIP for VMware**  
  
Cloud-based security service that provides life cycle management for encryption keys that are used in IBM Cloud services or customer-built applications.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/kmip_considerations.html>

 **Knowledge Catalog**  
  
To configure access policies for IBM Knowledge Catalog, select the IBM Cloud Pak for Data service.  
Documentation: <https://dataplatform.cloud.ibm.com/docs/content/wsj/catalog/overview-wkc.html>

 **Knowledge Studio**  
  
Teach Watson the language of your domain with custom machine learning models that identify entities and relationships unique to your industry in unstructured text. Build your models in a collaborative environment designed for both developers and domain experts, without needing to write code. Use the models in Watson Discovery, Watson Natural Language Understanding and Watson Explorer.  
Documentation: <https://cloud.ibm.com/docs/services/watson-knowledge-studio/index.html>

 **Komprise Elastic Data Migration**  
  
For sales support, please reach out to Komprise directly at IBM@komprise.com  
  
Whether migrating to the cloud, cloud NAS or to a NAS in your data center, with Komprise Elastic Data Migration you get the fastest, most predictable and cost-efficient data migration for file and object data.   
  
  
Smart, fast, proven file and object data migration. Komprise runs data migrations 27 times faster with an elastic architecture and reliably migrates petabytes of data.   
  
Komprise Elastic Data Migration includes Komprise Analysis and is included in the Komprise Intelligent Data Management suite or is available standalone. Don’t just lift and shift – learn more about analytics-first smart data migration from Komprise today.  
Documentation: <https://www.komprise.com/support/>

 **Komprise Intelligent Data Management Suite**  
  
For sales support, please reach out to Komprise directly at IBM@komprise.com  
  
Komprise enables organizations to handle the two most pressing issues with unstructured data: managing its rampant growth across multi-vendor storage and unlocking data value. Komprise is a data management service that connects easily via open standards to any file storage to provide much-needed analytics and visibility across all storage silos.  
  
Key benefits for customers include optimizing the management of petabytes of unstructured data to accelerate cloud migrations while dramatically cutting costs. Komprise automatically migrates or tiers unstructured/file data to secondary storage according to the plans which users create so that data always lives in the right place at the right time according to its age, usage or other parameters such as security.  
  
This adds up to significant storage savings (up to 70%) from migrating and archiving data. Komprise’s elastic grid architecture and patented TMT (transparent move technology) ensures that once data is moved from NAS and cloud file services, users can always access files from the original location, in their original form, without getting in the hot data path and enabling native access in the destination storage.  
Documentation: <https://www.komprise.com/support/>

 **Kubernetes Service**  
  
IBM Cloud Kubernetes Service creates a cluster of compute hosts and deploys highly available containers. A Kubernetes cluster lets you securely manage the resources that you need to quickly deploy, update and scale applications.  
Documentation: <https://cloud.ibm.com/docs/containers?topic=containers-getting-started#getting-started>

 **Language Translator**  
  
Neural Machine Translation comes standard for each language pair. Corpus customization allows you to create your own translation models which account for regional or industry-specific terms.   
  
Instantly translate your content into multiple languages. From translating documents, apps, and websites to creating multilingual chatbots, what will you build?  
Documentation: <https://cloud.ibm.com/docs/language-translator?topic=language-translator-gettingstarted>

 **Load Balancer for VPC**  
  
Deploy IBM Cloud Load balancer for VPC in front of application servers to distribute incoming user traffic, providing protection against failure of an individual application server instance. You can seamlessly scale your applications by adding or removing servers. with minimal to no disruption to existing traffic flows.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-nlb-vs-elb>

 **Log Analysis**  
  
Install IBM Log Analysis and start seeing your logs in under two minutes. Whether you wish to send logs via Kubernetes, Code libraries, OS agents, or syslog we have hundreds of custom integrations and are adding more each month.  
  
Our integrations are meant to be hassle free, and our backend services will automatically detect, parse, and index all log types.  
Documentation: <https://cloud.ibm.com/docs/log-analysis?topic=log-analysis-getting-started#getting-started>

 **Managed Backup Services**  
  
Deploy a fully-managed backup environment leveraging Veeam and IBM Resiliency Services.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/managing_veeam_services.html>

 **Managed Disaster Recovery Services**  
  
Deploy a fully-managed Disaster Recovery environment leveraging Zerto and IBM Resiliency Services.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/managing_zerto_services.html>

 **Managed Network Security Services**  
  
Managed Network Security Services provides:   
  
- Near real-time security monitoring, management and analysis of security device alerts and logs  
- Expertise in device policy management to help prevent malicious attacks  
- Advanced event analysis by intelligent systems and alerts for escalation and investigation  
- Detailed reporting for improved decision making  
- Access to IBM® X-Force® threat analysis service (security intelligence)  
  
Managed Network Security Services support a matrix of thoroughly tested and best of breed vendor platforms and technologies as hardware devices and virtual software installed in your environment, or in AWS, Azure & IBM cloud including: Checkpoint, Fortinet, Juniper, Palo Alto, and Cisco to name a few).  
  
Delivered from a network of global IBM Security Operations Centers (SOCs) operating 24 hours/day, 7 days/week 365 days/year.  
Documentation: <https://cloud.ibm.com/docs>

 **Managed VMware Services**  
  
Enable IBM Integrated Managed VMware services to deliver dynamic remote management services for a broad range of cloud infrastructures.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/managing_imi.html>

 **Match 360 with Watson**  
  
Use IBM Match 360 with Watson to quickly build data pipelines for analytics and other data science use cases using master data. Start with your IBM MDM Advanced or Standard Edition entities, or with any data assets containing party information from the knowledge catalog and quickly map and model new attributes to your data model for a more complete view of your customers. The AI-powered matching engine speeds configuration using the same statistical methods clients have relied on to produce accurate match results. Results can be accessed via RESTful APIs, exported to flat files, or viewed online via the entity explorer.  
Documentation: <https://dataplatform.cloud.ibm.com/docs/content/svc-welcome/mdm.html>

 **Messages for RabbitMQ**  
  
RabbitMQ routes messages between microservices for modern applications. Messages for RabbitMQ makes RabbitMQ even better by managing it for you. Features include high availability, automated backup orchestration, autoscaling, and de-coupled allocation of storage, RAM, and vCPUs. Messages for RabbitMQ pricing is based on underlying disk, RAM, and optional vCPU allocation, as well as backup storage usage. The service is HIPAA-Ready and compliant with PCI-DSS, SOC 1 Type 2, SOC 2 Type 2, ISO 27001, ISO 27017, ISO 27018, ISO 27701, and GDPR. You can also learn more by viewing docs, API docs, and terms.  
Documentation: <https://cloud.ibm.com/docs/messages-for-rabbitmq>

 **MinIO**  
  
MinIO is a high performance, Kubernetes native object storage suite. With an extensive list of enterprise features, it is scalable, secure and resilient while remaining remarkably simple to deploy and operate at scale. Software-defined, MinIO can run on any infrastructure and in any cloud - public, private or edge. MinIO is the world's fastest object storage and can run the broadest set of workloads in the industry. It is widely considered to be the leader in compatibility with Amazon's S3 API.  
Documentation: <https://docs.min.io>

 **MQ**  
  
IBM MQ provides proven, enterprise-grade messaging capabilities, such as point-to-point and publish/subscribe models, to facilitate the flow of information between applications. This service enables you to use IBM MQ as a managed offering. The IBM Cloud handles upgrades, patches, and many of the operational management tasks on your behalf, so you can focus on integrating MQ with your applications.  
  
This service enables you to use IBM MQ as a managed offering. The IBM Cloud handles upgrades, patches, and many of the operational management tasks on your behalf, so you can focus on integrating MQ with your applications.  
Documentation: <https://console.stage1.bluemix.net/docs/services/mqcloud/index.html>

 **Multi Volume Snapshots for VPC**  
  
Enable customer to capture crash consistent multiple volume snapshots at a time, All these Block Storage Snapshots for VPC are treated individually and service provides a regional, incremental backups of your block storage volumes.  
Documentation: <https://cloud.ibm.com/docs/vpc/getting-started.html>

 **Natural Language Understanding**  
  
Use advanced NLP to analyze text and extract meta-data from content such as concepts, entities, keywords, categories, sentiment, emotion, relations, and semantic roles. Apply custom annotation models developed using Watson Knowledge Studio to identify industry/domain specific entities and relations in unstructured text with Watson NLU.  
Documentation: <https://cloud.ibm.com/docs/services/natural-language-understanding/getting-started.html>

Picture 122 **NetApp ONTAP Select**  
  
Software-defined storage cluster that addresses your needs for a dedicated and highly available storage appliance based on NetApp ONTAP Select.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/netapp/np_netappoverview.html>

 **Netezza Performance Server**  
  
IBM Netezza Performance Server is a fully managed, a true elastic cloud native data warehouse. With advanced in-database analytics capabilities, it enables you to do data science and machine learning with data volumes scaling into the petabytes.  
Documentation: <https://cloud.ibm.com/docs/netezza>

 **Network ACL**  
  
Use network access control lists (ACLs) as filters to allow or deny specified incoming or outgoing traffic in an IBM Cloud Virtual Private Cloud (VPC).  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-using-acls>

 **NeuralSeek**  
  
NeuralSeek turns Watson Discovery into an intelligent, conversational answer and curation service for Watson Assistant.  
  
  
How does it work:  
  
- Make the Connection:  
Connect NeuralSeek to Watson Discovery and Watson Assistant via our no-code step-by-step guide  
- Unleash the bot:  
Allow your bot to dynamically interact with internal and external customers. NeuralSeek will provide conversational answers, and apply variation when asked the same question again. NeuralSeek understands context and can build off a string of questions.  
- Watch the Magic:  
NeuralSeek provides conversational answers to open-ended questions based on the knowledge you have loaded into Watson Discovery.  
NeuralSeek categorizes and curates content for your team to gain a more wholistic view of customer interactions.  
- Implement what NeuralSeek discovers:  
Select the best content that Neuralseek has curated to automatically merge back into Watson Assistant  
Documentation: <https://neuralseek.com/documentation>

 **OpenPages**  
  
Run an AI-driven, highly scalable, governance, risk and compliance (GRC) solution on any cloud. Centralize siloed risk management functions within a single environment designed to help you identify, manage, monitor and report on risk and regulatory compliance, especially in today’s changing business landscape.  
Documentation: <https://cloud.ibm.com/docs/openpages?topic=openpages-gettingstartedtutorial>

 **Partner with Technology Expert Labs**  
  
Engage with IBM expert to build a more meaningful application for your users. Get the most out of your IBM Cloud account by working with either of our consulting practices: IBM Cloud Expert Labs or Data and AI Expert Labs & Learning.  
Documentation: <https://console.cloud.ibm.com/docs/services/consult-with-icg-wes/>

 **Placement Groups for VPC**  
  
Placement Groups with Anti-Affinity placement rules enable customers to specify placement of VPC VSIs for improved disaster / outage avoidance.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-getting-started>

 **Planning Analytics**  
  
IBM Planning Analytics as a Service is a fully managed, collaborative, enterprise-scalable budgeting, planning, analytics, profitability, modeling and reporting solution deployed on AWS. These applications are supported by the highly available Planning Analytics in memory engine that provides on-demand analytics of complex multidimensional data in real time.  
Documentation: <https://test.cloud.ibm.com/docs/planning-analytics>

Picture 130 **Portfolio Optimization**  
  
The Portfolio Optimization Service is built upon a flexible mathematical model. This model allows for the construction or rebalancing of an investment portfolio based on a wide range of objectives and investor preferences. For example, the investor might want to avoid sin stocks, focus on socially responsible investments, or limit contribution to asset classes, while minimizing the overall volatility with respect to a benchmark.  
Documentation: <https://console.ng.bluemix.net/docs/services/fss-financial-optimization-service/index.html>

Picture 131 **Portworx Enterprise**  
  
Portworx-Enterprise is the most widely-used and reliable cloud-native storage solution for production workloads and provides high-availability, data protection and security for containerized applications.  
  
To learn more about the Portworx Enterprise the data platform for Kubernetes, platform features, please visit our product features page https://portworx.com/products/features/.  
  
Documentation: <https://docs.portworx.com/portworx-enterprise/install-portworx/kubernetes/ibm>

 **PowerVS Migration as a Service**  
  
Wanclouds proudly presents IBM PowerVS Migration as a Service, designed to facilitate effortless migration of your workloads to IBM PowerVS cloud infrastructure. Our comprehensive service offering ensures a smooth transition, empowering your business to leverage the agility, scalability, and reliability of IBM PowerVS.  
  
  
Benefits:  
  
Seamless Migration Experience:  
Experience a hassle-free migration process with minimal downtime and disruption to your business operations.  
  
Enhanced Performance and Scalability:  
Leverage the power of IBM PowerVS to achieve enhanced performance, scalability, and agility for your workloads.  
  
Cost-Efficiency:  
Optimize costs and achieve better ROI by leveraging Wanclouds' expertise to efficiently migrate to IBM PowerVS.  
  
Focus on Core Business Objectives:  
Let Wanclouds handle the complexities of migration while you focus on driving your core business objectives forward.  
  
Future-Proof Infrastructure:  
Position your business for future growth and innovation with IBM PowerVS, supported by Wanclouds' expertise and guidance.  
Documentation: <https://docs.wanclouds.net/ibm/ibmpowervs-get-started>

Picture 133 **Predictive Market Scenarios**  
  
Thirty years of financial engineering expertise at your fingertips. IBM Algorithmics pricing models are trusted by some of the world's largest financial institutions to meet their risk, performance, and regulatory needs.  
  
 Generate what-if financial market scenarios for use in the valuation of financial securities. Predictive market scenarios allows users to understand how a broader set of market factors might change if a small subset of factors undergo the user defined change. An example is what-if oil moved up 5%, how would the equity markets, rates, credit change.  
  
 The scenario can then be applied to an investment portfolio to understand how it might react.  
Documentation: <https://console.ng.bluemix.net/docs/services/PredictiveMarketScenarios/index.html>

 **Professional Services for Government(only available in US)**  
  
Leverage IBM Experts to manage and deliver your Cloud projects. We advise and collaborate with you to advance your cloud initiatives and help modernize your enterprise business and technology platforms.  
Documentation: <https://cloud.ibm.com/docs>

 **ProtectIO DRaaS DIY**  
  
ProtectIO is PrimaryIO’s on-demand disaster recovery as a service (“DRaaS”) platform. ProtectIO is delivered as a web-accessible, multi-tenant, IBM Cloud-native Software-as-a-Service and helps customers by providing a robust disaster recovery solution while leveraging the latest cloud economics for an attractive Total Cost of Ownership.  
  
Continuous Data Protection (CDP) is delivered via PrimaryIO’s proprietary VAIO Replication filter and Authenticated Block Stream Protocol that ships the changed I/O blocks to a DR Receiver process in the Target/DR environment and commits to IBM Cloud Object Storage.   
  
At failover time, ProtectIO rehydrates from the Cloud Object Storage buckets into the respective VMDKs and instantiates the VMs that compose the application workload that is being protected. This delivers near zero RPO and an RTO correlated with the amount of data that needs to be rehydrated, which provides a compelling Total Cost of Ownership (TCO) solution for customers.  
  
ProtectIO supports on-premises, IBM Cloud Classic and IBM Cloud VPC as the Primary Site and utilizes IBM Cloud Classic or VPC for the Target/DR Site, depending upon the customer and available VPC capacity. The UI/UX and associated Control Plane, which runs in an IBM Cloud VPC,  has been designed to be extremely intuitive and allow customers to operate without needing assistance from a Managed Service Provider.  
  
  
Pre-requisites:  
1. Customer needs to have a IBM tenant account  
2. Customer needs to have COS instance   
  
Note: PrimaryIO team will help you setup IBM tenant account and COS instance  
Documentation: <https://docs.primaryio.com/protectio>

 **ProtectIO DRaaS Managed Service**  
  
ProtectIO is PrimaryIO’s on-demand disaster recovery as a service (“DRaaS”) platform. ProtectIO is delivered as a web-accessible, multi-tenant, IBM Cloud-native Software-as-a-Service and helps customers by providing a robust disaster recovery solution while leveraging the latest cloud economics for an attractive Total Cost of Ownership.  
  
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Pre-requisites:  
  
 1. Customer needs to have a IBM tenant account  
 2. Customer needs to have COS instance  
Note: PrimaryIO team will help you setup IBM tenant account and COS instance  
Documentation: <https://docs.primaryio.com/protectio>

 **Public Gateway**  
  
Public Gateway for VPC  
Documentation: <https://cloud.ibm.com/docs/infrastructure/vpc?topic=vpc-getting-started-with-ibm-cloud-virtual-private-cloud-infrastructure>

Picture 138 **PX-Backup for Kubernetes**  
  
Portworx PX-Backup  
  
Portworx PX-Backup delivers enterprise-grade point-and-click backup and recovery protection for all applications running on IBM Kubernetes Service and Red Hat OpenShift on IBM Cloud, even if they are stateless. Built exclusively for containerized applications, Portworx PX-Backup protects your applications - data, application configuration, and Kubernetes objects - with a single click at the Kubernetes Pod, Namespace, or Cluster level.   
  
PX-Backup enables:   
• Point and click recovery for any stateless or stateful Kubernetes application   
• Pod and Namespace granularity for application-centric protection   
• Application-aware protection for complex distributed applications   
• Role-Based Access Control for secure user access  
  
With PX-Backup, you achieve application-aware automation for data integrity, Role-Based Access Control and audit log for policy compliance, and Pod and Namespace granularity. Portworx PX-Backup includes out-of-the-box integration with many popular services such as Kafka, Elasticsearch, Cassandra, MongoDB, PostgreSQL, MySQL, and many more.  
  
PX-Backup is compatible with any Kubernetes cluster, including managed and cloud deployments. PX-Backup integrates with major block storage providers:  
IBM VPC Block  
Portworx PX-Store  
Amazon EBS  
Google Persistent Disk  
Azure Managed Disks  
CSI Enabled Storage  
  
Release Notes:  
https://backup.docs.portworx.com/release-notes/  
Documentation: <https://backup.docs.portworx.com/>

 **Qiskit Runtime**  
  
With this service, IBM Quantum gives you access to Qiskit Runtime, an execution environment that delivers significant performance improvements.   
   
Qiskit Runtime (beta) is unavailable in the following countries: Afghanistan, Armenia , Azerbaijan, Belarus, Myanmar (Burma), Cambodia, People’s Republic of China (including Hong Kong), Cuba, Georgia, Iran, Iraq, Kazakhstan, North Korea, Kyrgyzstan, Laos, Libya, Macau, Moldova, Mongolia, Russia, Sudan, Syria, Tajikistan, Turkmenistan, Ukraine, Uzbekistan, Venezuela, Vietnam ,Yemen.  
Documentation: <https://cloud.ibm.com/docs/quantum-computing>

 **Raxak Protect**  
  
Raxak Protect automates security compliance across private and public clouds. Using the SaaS tool or managed service, developers can deploy cloud apps quickly, cost-effectively, and without error. Raxak Protect allows you to apply security profiles to your servers (VMs or bare-metal) based on recommendations from DISA, NIST, and other regulatory agencies including PCI, HIPAA, FFIEC, and FISMA.  
Documentation: <https://www.cloudraxak.com>

 **Real-Time Payments**  
  
Manage participants, tokens and recipients, and initiate and receive real time payments.  
Documentation: <https://console.bluemix.net/docs/services/real-time-payments/index.html>

 **Red Hat OpenShift on IBM Cloud**  
  
With Red Hat OpenShift on IBM Cloud, OpenShift developers have a fast and secure way to containerize and deploy enterprise workloads in Kubernetes clusters. OpenShift clusters build on Kubernetes container orchestration that offers consistency and flexibility in operations. Because IBM manages OpenShift Container Platform (OCP), you'll have more time to focus on your core tasks.  
Documentation: <https://cloud.ibm.com/docs/openshift?topic=openshift-getting-started>

 **Satellite**  
  
IBM Cloud Satellite allows IBM Cloud services delivered anywhere a client needs them, managed from a single pane of glass, with as-a-service operations, secure connectivity, application lifecycle management.  
Documentation: <https://cloud.ibm.com/docs/satellite?topic=satellite-getting-started>

 **Schematics**  
  
IBM Cloud Schematics Infrastructure as Code automation  
Documentation: <https://cloud.ibm.com/docs/schematics?topic=schematics-getting-started>

 **Secondary Subnets**  
  
- Secondary subnets provide additional, independent IP addresses for your application.  
  
- Required for use as external application or service addresses managed independent of other infrastructure resources.  
  
- Available with either portable, static, or global routing capabilities.  
Documentation: <https://cloud.ibm.com/docs/subnets>

 **Secrets Manager**  
  
With Secrets Manager, you can create, lease, and centrally manage secrets that are used in IBM Cloud services or your custom-built applications. Secrets are stored in a dedicated instance of Secrets Manager, built on open source HashiCorp Vault.  
Documentation: <https://cloud.ibm.com/docs/secrets-manager?topic=secrets-manager-getting-started#getting-started>

 **Secure Automated Backup with Compass**  
  
Powered by Cobalt Iron Compass®  
A single, unified, SaaS-based offering to backup and restore IBM PowerVS workloads.  
  
With IBM Storage Protect, Compass protects a variety of PowerVS platforms, applications, and data classes including:  
1. AIX  
2. Linux  
3. Oracle on AIX  
4. DB2 on AIX  
5. SAP HANA on Linux  
  
Compass delivers a variety of differentiated features and functionality:   
1. Simple, automated, instant-on  
2. Cloud backup service  
3. Resilient and compliant  
4. Usage-based pricing  
5. Native application integrations   
  
The Compass offering provides a variety of integrated security and operational features including:  
  
1. Alerting, notifications, and ticketing features and integration  
2. Automated auditing and validation of backup server landscape  
3. Backup server automation – hands-free automation of all backup server tasks  
4. Centralized policy management  
5. Complete governance  
6. Customer data is encrypted in all phases from in-transit, to-storage, and at-rest  
7. Multitenancy and unlimited sub-organizations  
8. Role-based access control management  
  
Documentation: <https://cloud.ibm.com/docs/power-iaas?topic=power-iaas-backup-strategies#baas>

 **Secure Gateway**  
  
The Secure Gateway Service provides a quick, easy, and secure solution for connecting resources in a protected environment to cloud resources. By deploying the light-weight and natively installed Secure Gateway Client, you can establish a secure, persistent connection between your environment and the cloud through an outbound call. Once the client is connected, you can safely connect your applications and resources by specifying their host and port to create corresponding destinations on the cloud. Rather than bridging your environments at the network level like a traditional VPN that begins with full access and must be limited from the top down, Secure Gateway provides granular access only to the resources that you have defined.  
Documentation: <https://cloud.ibm.com/docs/SecureGateway>

 **Security and Compliance Center**  
  
Security and Compliance Center is designed to help you create and maintain a secure and compliant development environment. With a wide variety of available controls, customization opportunities, and integrations, Security and Compliance Center can help you to meet your most stringent security and compliance goals.  
  
Working with a multi-cloud solution? Try out Security and Compliance Center Workload Protection.  
Documentation: <https://cloud.ibm.com/docs/security-compliance?topic=security-compliance-getting-started>

 **Security and Compliance Center Workload Protection**  
  
Security and Compliance Center Workload Protection helps you accelerate your Kubernetes and cloud adoption by addressing security and regulatory compliance. Easily identify vulnerabilities, check compliance, block runtime threats and respond to incidents faster at every stage of the Cloud, container and Kubernetes lifecycle.  
Documentation: <https://cloud.ibm.com/docs/workload-protection?topic=workload-protection-getting-started>

 **Security Group for VPC**  
  
Security groups give you a convenient way to apply security rules that establish filtering to each network interface of a virtual server instance, based on its IP address. When you create a security group, you configure it to create the network traffic patterns you want. By default, a security group denies all traffic. As rules are added to a security group, it defines the traffic that the security group permits.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-using-security-groups>

Picture 152 **Simulated Historical Instrument Analytics**  
  
Thirty years of financial engineering expertise at your fingertips. IBM Algorithmics pricing models are trusted by the world's largest financial institutions to meet their risk, performance, and regulatory needs.  
  
The Simulated Historical Instrument Analytics service supports the historical computation of the theoretical or market calibrated valuation, and all relevant associated analytics, for investment securities such as equities, fixed income, and derivatives over an alternate set of market conditions.  
Documentation: <https://console.ng.bluemix.net/docs/services/SimulatedHistoricalInstrumentAnalytics/index.html>

Picture 153 **Simulated Instrument Analytics**  
  
Thirty years of financial engineering expertise at your fingertips. IBM Algorithmics pricing models are trusted by the world's largest financial institutions to meet their risk, performance, and regulatory needs.  
  
The Simulated Instrument Analytics service supports the current computation of the theoretical or market calibrated valuation, and all relevant associated analytics, for investment securities such as equities, fixed income, and derivatives over an alternate set of market conditions.  
Documentation: <https://console.ng.bluemix.net/docs/services/SimulatedInstrumentAnalytics/index.html>

 **Single-node Trial for Data Protection and Disaster Recovery**  
  
Test drive IBM Cloud's end-to-end data protection and disaster recovery solution by lifting, shifting, and transforming applications in this 90-day trial.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/f5_considerations.html>

 **Single-node Trial for Migration and App Modernization**  
  
Test drive IBM Cloud's end-to-end application modernization solution by lifting, shifting, and transforming applications in this 90-day trial.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/vcstrial>

 **Skytap On IBM Cloud**  
  
Skytap is a cloud service purpose-built to natively run traditional systems in the cloud. It is the only cloud service to support AIX, IBM i, and Linux on IBM POWER together with x86 workloads, enabling businesses to accelerate their journey to the cloud and increase innovation.   
  
# Features  
  
\*\*Migrate AIX, IBM i, and Linux Application Unchanged\*\*  
\* Rehost applications in Skytap on IBM Cloud without rearchitecting or rewriting  
\* Migrate POWER components alongside x86/Windows components  
\* Choose from multiple migration paths  
  
\*\*Enable Agile Development\*\*  
\* Provision resource in seconds with self-service access to production-ready environments  
\* Eliminate configuration drift with cloneable environments that are identical down to MAC and IP addresses  
\* Streamline end-to-end testing with blended environments running on multiple architectures  
\* Automate Skytap functionality with RESTful APIs  
  
  
\*\*Prioritize HA/DR\*\*  
\* Highly available infrastructure that can be combined with 3rd party HA/DR solutions and redundant application architecture design  
\* Support for IBM PowerHA, HelpSystems RobotHA, Syncsort Mimix, IBM i BRMS combined with IBM Cloud Storage Solutions for IBM i, and more  
  
\*\*Maintain Visibility and Control\*\*  
\* Create and manage application environment templates that can be self-provisioned, cloned, and shared  
\* Set role-based access permissions and granular quota management  
\* Supports popular IBM i operator functions like Active boot Modes and Dedicated Service Tools (DST)  
\* Manage IBM i using green screen, Access Client Solutions, or Navigator for i  
  
\*\*Maximize Your Investment Dollars\*\*  
\* Choose the right size for your workload and avoid unnecessary over provisioning  
\* Resize as needed  
\* Manage your spending for dynamic and always on workloads with controls to prevent unplanned overages  
  
Getting Support  
  
Please submit issues directly to our support form: https://cloud.skytap.com/support. Please include as much detail as possible on the issue. Support is available 24x7x365 and tickets are handled based upon support level and severity. Prior to submitting an issue, please take a moment to review our documentation at https://help.skytap.com/skytap-support.html.  
Documentation: <https://cloud.ibm.com/catalog>

 **Spectrum Protect Plus**  
  
Simplify data protection, availability, and access for your VMware environment.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/spp_considerations.html>

 **Speech to Text**  
  
The Speech to Text service converts the human voice into the written word. The service uses deep-learning AI to apply knowledge of grammar, language structure, and the composition of audio and voice signals to accurately transcribe human speech. It can be used in applications such as voice-automated chatbots, analytic tools for customer-service call centers, and multi-media transcription, among many others.  
Documentation: <https://cloud.ibm.com/docs/speech-to-text?topic=speech-to-text-gettingStarted>

 **SSH Key for VPC**  
  
SSH Key for use with VPC  
Documentation: <https://console.bluemix.net/docs/infrastructure/vpc/getting-started.html>

Picture 160 **SSL Certificates**  
  
Get peace of mind by securing your website against unauthorized interception of data. Secure Socket Layer (SSL) certificates provide a secure, encrypted connection between your site or application and your end user. Whether a customer is providing their contact information or credit card information into a form, an SSL Certificate lets them know they can trust that their data will end up in your hands alone.  
Documentation: <https://cloud.ibm.com/docs/ssl-certificates>

 **Streaming Analytics**  
  
Leverage IBM Streams to ingest, analyze, monitor, and correlate data as it arrives from real-time data sources. View information and events as they unfold.  
Documentation: <https://cloud.ibm.com/docs/services/StreamingAnalytics?topic=StreamingAnalytics-gettingstarted#gettingstarted>

 **Subnet**  
  
Subnets are created from VPC address prefixes and are bound to a single zone in one region; customers can have multiple subnets per address prefix.   
  
Each subnet in a VPC can reach other subnets through private layer 3 routing through the implicit router. The implicit router is the inherent network connectivity between all the subnets that are created within a VPC. A VPC, like a subnet, is also deployed and bound to only one region. Within that region, a VPC can span multiple zones, however, subnets are bound to a single zone and do not span multiple zones.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-about-subnets-vpc>

 **Text to Speech**  
  
The Text to Speech service converts written text to natural-sounding speech. The service streams the synthesized audio back with minimal delay. The audio uses appropriate cadence and intonation for its language and dialect to provide voices that are smooth and natural. The service can be used in applications such as voice-automated chatbots, as well as a variety of voice-driven and screenless applications, such as tools for the disabled or visually impaired, video narration and voice over, and educational and home-automation solutions.  
Documentation: <https://cloud.ibm.com/docs/text-to-speech?topic=text-to-speech-gettingStarted>

 **Toolchain**  
  
Use Continuous Delivery to automate builds, unit tests, deployments, and more. Push code using Git Repos and Issue Tracking. Identify vulnerabilities in source code. Create toolchains to enable tool integrations that support your development, deployment, and operation tasks.  
Documentation: <https://cloud.ibm.com/docs/services/ContinuousDelivery?topic=ContinuousDelivery-getting-started>

 **Transit Gateway**  
  
IBM Cloud Transit Gateway helps ensure the security of sensitive data to and from different locations with the IBM Cloud.  
Documentation: <https://console.bluemix.net/docs/infrastructure/transit-gateway/getting-started.html>

 **VCF as a Service - Cloud Director Site**  
  
Deploy a comprehensive portfolio of automated and on-demand services for VMware workloads to the cloud, faster than ever before.  
Documentation: <https://cloud.ibm.com/docs/vmware-service?topic=vmware-service-getting-started>

 **VCF as a Service - Virtual Data Center**  
  
Deploy a comprehensive portfolio of automated and on-demand services for VMware workloads to the cloud, faster than ever before.  
Documentation: <https://cloud.ibm.com/docs/vmware-service?topic=vmware-service-getting-started>

 **Veeam**  
  
Enable the Always-On Enterprise by providing data centers with high-speed recovery and data loss avoidance.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/veeam_considerations.html>

 **Virtual Network Interface for VPC**  
  
A virtual network interface is a logical abstraction of a virtual network interface card in a subnet and can be attached to a target resource. Virtual network interfaces can exist independent of an instance, providing enhancements over instances with child network interfaces.   
  
Network administrators can provision a virtual network interface to exist independent of a target, such as a virtual server instance or bare metal server. New or standby resources can also reuse virtual network interfaces, enabling required failover and high availability for large enterprise workloads on IBM Cloud. Administrators with database, proxy, or NAT appliances can use multiple private IPs assigned to a single virtual network interface, which enables them to run multiple services on a single instance for redundancy and failover.  
  
Virtual network interfaces provide a significant improvement in the capability and flexibility of network interfaces in IBM Cloud VPC.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-vni-about>

 **Virtual Private Cloud**  
  
Create a fully customizable, software-defined virtual network with superior isolation. IBM Cloud Virtual Private Cloud provides custom network topologies, flexible subnet sizes, and enhanced security.  
Documentation: <https://cloud.ibm.com/docs/vpc/getting-started.html>

 **Virtual Private Endpoint for VPC**  
  
Connectivity to IaaS and PaaS services on the IBM Cloud private backbone utilizing client assigned IP addresses native to the VPC. Integrated with IBM Cloud Platform services like Identity and Access Management (IAM), Resource Groups, and the Usage Dashboard, you can manage your Endpoint Gateways and Virtual Private Endpoint IPs in the same place as the rest of your IBM Cloud services. With the ability to map VPC IP addresses, it provides a seamless connectivity experience and a greater level of control of the network domain.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-about-vpe>

 **Virtual Router Appliance**  
  
Protect your cloud infrastructure and optimize its performance with a gateway appliance.  
Documentation: <https://cloud.ibm.com/docs/infrastructure/virtual-router-appliance?topic=virtual-router-appliance-getting-started>

 **Virtual Server for Classic**  
  
We offer virtual servers worldwide with up to 64 vCPU and 512 GB RAM to fit any workload need. Select hourly postpaid billing for flexibility or monthly prepaid for a discount on full monthly usage.  
Documentation: <https://cloud.ibm.com/docs/vsi>

 **Virtual Server for VPC**  
  
In your own private space in the IBM Cloud, IBM Cloud VPC combines the security of a private cloud with the scalability of a public cloud. Use Virtual Private Cloud to isolate and provision network segments on the IBM Cloud, where you can deploy and manage compute resources, storage and networking cloud resources.  
  
With Virtual Server for VPC, you can quickly provision instances with high network performance. When you provision an instance, you select a profile that matches the amount of memory and compute power that you need for the application that you plan to run on the instance. Instances are available on the x86 and s390x architectures. After you provision an instance, you control and manage those infrastructure resources.  
Documentation: <https://cloud.ibm.com/docs/vpc?topic=vpc-creating-virtual-servers>

 **VLAN**  
  
A Virtual Local Area Network (VLAN) is a network construct that makes it possible to create broadcast domains at the OSI Model layer-2 level. IBM Cloud uses VLANs to isolate broadcast traffic, to provide packet identification, and to let multiple workloads coexist on the same physical equipment. Depending on your situation, you may never need to interact with VLANs directly, because they are managed automatically. Optionally, you can order additional VLANs based on your unique network isolation requirements.  
Documentation: <https://cloud.ibm.com/docs>

 **VMware Cloud Migration Services**  
  
This selection of services targets VMware customers seeking to modernize and embrace various IBM cloud options as either a production or disaster recovery target site.  
  
While PrimaryIO offers SaaS products in support of the Cloud Journey targeting data resiliency, this collection is comprised of advisory services and optionally the man-power to accomplish these modernizing, mobility-enhancing, cloud-embracing projects.  
  
The services are designed to create an easy to consume, yet bespoke, tailored project. Each project is fully detailed with project plan, associated cost and transparency to the project status with focus on rapid achievement of critical path objectives.  
  
All projects, irrespective of category and customization, require a current state assessment coupled with a solid understanding of the customer goal and associated target environment. Once well-comprehended, an accurate statement of work and associated price quote is generated in support of the project. At such time, the project can be procured through the listed catalog option.  
Documentation: <https://hdm.primaryio.com/lp/vmwaas>

 **VMware Solutions**  
  
Deploy a comprehensive portfolio of automated and on-demand services for VMware workloads to the cloud, faster than ever before.  
Documentation: <https://cloud.ibm.com/docs/vmware-service?topic=vmware-service-getting-started>

 **VMware vCenter Server**  
  
Standardized software-defined data center (SDDC) solution that combines IBM Cloud Bare Metal Servers with VMware vSphere, NSX, and optional vSAN for a seamless hybrid cloud experience.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/vcenter/vc_vcenterserveroverview.html>

 **VMware vSphere**  
  
Customizable virtualization service that combines VMware-compatible bare metal servers, hardware components, and licenses, to build your own IBM-hosted VMware environment.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/vsphere/vs_vsphereclusteroverview.html>

 **VPC COaaS (VPC Cost Optimization as a Service)**  
  
This is a fully-managed cloud-based service designed to help IBM Cloud users manage their cloud costs.  
  
Wanclouds COaaS provides IBM users with the tools and insights needed to optimize their cloud costs and services. With Wanclouds COaaS, users can track their cloud costs, identify potential cost savings opportunities, and develop customized strategies to reduce their overall cloud spending. The service also helps users identify areas of potential waste and inefficiency, and provides guidance on how to best manage their cloud costs. Additionally, Wanclouds COaaS can provide users with detailed reports and analytics to help them understand their cloud costs and make more informed decisions.  
  
Resource Coverage:  
- Idle Resources  
- Volumes  
- Floating IPs  
- Public Gateways  
- Dedicated Hosts  
- Virtual Server Instances  
- Images  
- Snapshots  
  
Benefits  
- Tracking cloud costs  
- Identification of potential cost savings  
- Strategies to reduce their overall cloud spending, this Service can provide users with detailed reports and analytics to help them understand their cloud costs.  
- Identify areas of potential waste and inefficiency, and provide guidance on how to best manage their cloud costs.  
  
Learn more: https://www.wanclouds.net/coaas  
  
For any help, please go to https://support.wanclouds.net or email us at support@wanclouds.net  
For sales related queries, please contact usat sales@wanclouds.net  
Documentation: <https://docs.wanclouds.net/ibm>

 **VPC+ Cloud Migration**  
  
VPC+ Cloud Migration is a third-party tool that helps facilitate easy migration of infrastructure components and applications. This tool automatically discovers your IBM Cloud classic infrastructure resources and components that can be migrated to IBM Cloud Virtual Private Cloud (VPC). You can choose the resources that you want to migrate and provision these resources in VPC. Once you are on IBM Cloud VPC, you have the opportunity to optimize, manage, and monitor your resources through the console.  
Documentation: <https://cloud.ibm.com/docs/wanclouds-vpc-plus/getting-started.html>

 **VPC+ DRaaS (VPC+ Disaster Recovery as a Service)**  
  
Wanclouds offers multi-cloud Backup, Migrations, Disaster Recovery, and Cost Optimization as a Service. At the heart of our approach is our SaaS application called VPC+ enabling seamless and hassle-free backups, migrations, disaster recovery, and cost optimization.  
  
Add one or multiple public clouds accounts and create a comprehensive backup and DR setup for all of your IBM Cloud Resources across regions.  
  
Backup and Disaster Recovery as a Service  
- Backup your exisitng IBM Cloud VPC resources and configurations  
- Backup IBM IKS (Kubernetes Service), ROKS (Red Hat Openshift)  
- Backup Virtual Machines (VSIs) and attached Data Volumes  
- Backup Cloud Object Storage Buckets (COS Buckets)  
- Backup on-prem Kubernetes or Red Hat OpenShift clusters to IBM Cloud  
- Restore or replicate your infrastructure across regions  
- Restore your Kubernetes or Red Hat OpenShift clusters on-demand  
- Backup VMware VMs to IBM Cloud VPC  
  
Setup IBM Cloud as a DR site for On-Premise workoads  
  
- Setup IBM Cloud as a Warm DR site for critical workloads   
- Leverage IBM Cloud as a Backup for your Windows, Linux, Kubernetes workloads and Data.  
  
Cloud-Native Migration and Application Mobility  
  
- Setup IBM Cloud as a DR site  
- Discover and Migrate Kubernetes and OpenShift cluster to IBM Cloud  
- Migrate your application across your Kubernetes clusters  
- Migrate your on-prem Red Hat OpenShift Clusters to IBM ROKS  
- Migration On-Premise clusters to IBM Cloud Satellite  
  
  
  
Additional Features (needs to be separately enabled)  
  
Cost Optimization as a Service  
- Discover and track all of your resources across IBM Cloud  
- Track all your Idle resources. Stop entire VPCs, or delete unused resources  
- Rightsize your Compute based on your usage and optimise for cost  
- Assign Purpose tags based on industry standards  
  
  
It takes just a few minutes to get started - subscribe today or request a demo:  
  
Learn more: https://www.wanclouds.net/ibm  
  
For any help, please go to https://support.wanclouds.net or email us at support@wanclouds.net.  
Documentation: <https://docs.wanclouds.net/ibm/vpc-draas/>

 **VPN for VPC**  
  
VPN for VPC provides a simple yet powerful solution for highly scalable and robust site-to-site VPN. This VPN service provides a mixture of industry standard security and encryption options as well as support for Pre-shared Key authentication. The service also provides the ability to quickly add and remove VPN connections with the option to use pre-defined configurations.  
Documentation: <https://test.cloud.ibm.com/docs/vpc?topic=vpc-using-vpn>

 **vRealize Operations and Log Insight**  
  
Monitor and troubleshoot the performance, health, and capacity of your dedicated IBM-hosted VMware Software Defined Data Center (SDDC) stack, in a more efficient matter.  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/f5_considerations.html>

 **Watson Discovery**  
  
Add a cognitive search and content analytics engine to applications to identify patterns, trends and actionable insights that drive better decision-making. Securely unify structured and unstructured data with pre-enriched content, and use a simplified query language to eliminate the need for manual filtering of results.  
Documentation: <https://cloud.ibm.com/docs/discovery-data?topic=discovery-data-getting-started>

 **Watson Machine Learning**  
  
IBM Watson Machine Learning is a full-service IBM Cloud offering that makes it easy for developers and data scientists to work together to integrate predictive capabilities with their applications. The Watson Machine Learning service is a set of REST APIs that you can call from any programming language to develop applications that make smarter decisions, solve tough problems, and improve user outcomes.  
Documentation: <https://dataplatform.cloud.ibm.com/docs/content/wsj/analyze-data/ml-overview.html>

 **Watson Query**  
  
For decades, companies have tried to break down silos by copying data from different operational systems into central data stores for analysis, such as data marts, data warehouses and data lakes. These methods can be costly and are prone to error. Most struggle to manage an average of 33 unique data sources, which are diverse in structure and often trapped within inaccessible data silos. With Watson Query, you can query data across many systems without having to copy and replicate it, saving time and reducing costs. Watson Query queries data from its source, simplifying your analytics by providing the latest and most accurate data.  
Documentation: <https://dataplatform.cloud.ibm.com/docs/content/svc-welcome/dv.html>

 **Watson Studio**  
  
Watson Studio democratizes data science and AI to drive innovation in your business. With a suite of tools for all skill levels, everyone can collaborate to prepare, analyze, and model data. You can write Python or R code in notebooks, visually code on a graphical canvas, or automatically build models.  
Documentation: <https://dataplatform.cloud.ibm.com/docs>

 **watsonx**  
  
Build with our new studio for foundation models, generative AI and machine learning. Train, validate, tune, and deploy foundation and machine learning models with ease.  
Documentation: <https://ibm.com>

 **watsonx Assistant**  
  
watsonx Assistant lets you build conversational interfaces into any application, device, or channel.  
  
Add a natural language interface to your application to automate interactions with your end users. Common applications include virtual agents and chat bots that can integrate and communicate on any channel or device. Train through an easy-to-use web application, designed so you can quickly build natural conversation flows between your apps and users, and deploy scalable, cost effective solutions.  
Documentation: <https://cloud.ibm.com/docs/watson-assistant?topic=watson-assistant-welcome-new-assistant>

 **watsonx Code Assistant**  
  
IBM watsonx Code Assistant is a cloud service that leverages generative AI to accelerate code generation and increase developer productivity. It uses generative AI that is purpose-built for targeted use cases like Application Modernization and IT Automation.  
Out-of-the-box, watsonx Code Assistant provides pre-trained models based on specific programming languages to ensure trust and efficiency for accurate code generation. IBM watsonx Code Assistant allows you to customize the underlying model(s) to ensure output is grounded in your organization's best practices, while providing visibility into the potential origin of generated code.  
Documentation: <https://cloud.ibm.com/docs/watsonx-code-assistant>

 **watsonx.data**  
  
Watsonx.data is a data management solution for collecting, storing, querying, and analyzing all your enterprise data (structured, semi-structured, and unstructured) with a single unified data platform. It provides a flexible and reliable platform that is optimized to work on open data formats.  
Documentation: <https://cloud.ibm.com/docs/watsonxdata>

 **watsonx.governance**  
  
IBM watsonx.governance™ helps you direct, manage and monitor your organization’s AI activities  
Documentation: [https://dataplatform.cloud.ibm.com/docs/content/wsj/model/wos-provision-launch.html?context=wx&amp;audience=wdp](https://dataplatform.cloud.ibm.com/docs/content/wsj/model/wos-provision-launch.html?context=wx&audience=wdp)

 **Workspace for Power Virtual Server**  
  
Power Systems Virtual Server projects deliver flexible compute capacity for Power Systems workloads. Integrated with the IBM Cloud platform for on-demand provisioning, this offering provides a secure and scalable server virtualization environment built upon the advanced RAS features and leading performance of the Power Systems™ platform.  
Documentation: <https://cloud.ibm.com/docs/power-iaas?topic=power-iaas-getting-started>

 **Zerto**  
  
Replicate your VMs between data centers in the public cloud or between the public cloud and your on-premises data centers  
Documentation: <https://cloud.ibm.com/services/vmwaresolutions/services/addingzertodr.html>