

Prerequisites for Internet of Things (IoT)

Hardware Specifications:

- Windows (minimum 10), Mac OS, Ubuntu
- Ram - 4GB (minimum)
- Hard disk - 256GB (minimum)
- Processor - Intel i3 (minimum), Mac M1

Software Specifications:

- Anaconda Navigator - <https://www.anaconda.com/products/distribution>
- Spyder / VS Code / Pycharm

Create an Account in Thinkercad

- <https://www.tinkercad.com>

IBM:

IBM Account Creation - <https://vimeo.com/742609168/1824d26a5b> (Follow this video for IBM Skill Build Account Creation)

- IBM Skill Build - <https://www.ibm.com/academic/home>
- Webmail - <https://sg2plmcpnl492529.prod.sin2.secureserver.net:2096/>
- IBM Cloud - <https://cloud.ibm.com/login>

TEAM ID: PNT2022TMID36685

Member 1: Team lead: Divya S

Member 2: Prakash R

Member 3: Baluprakash T S

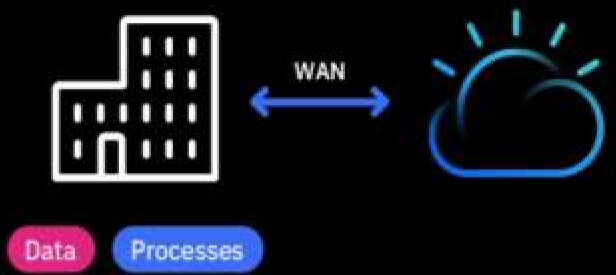
Member 4: Monishwari N

Member 5: Narmatha N



Deploy the right type of cloud to accelerate innovation

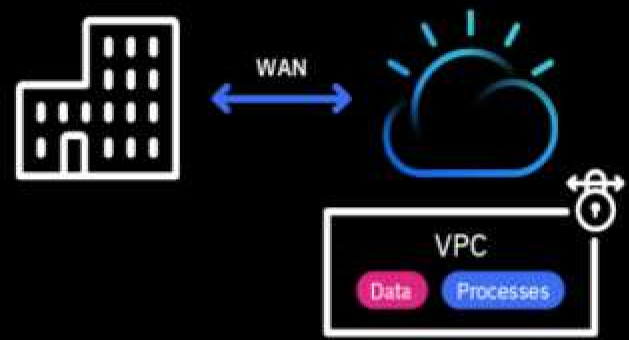
Private



When to use
Organization has requirement to utilize on-premises infrastructure (security policy, investment equity, limited WAN bandwidth, etc)

30-40 IBM Cloud services

Dedicated

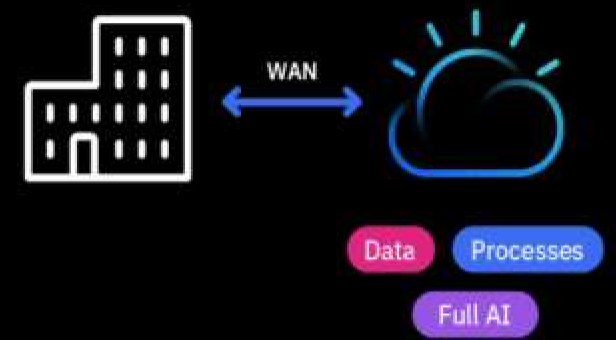


When to use
Organization has isolation requirement for security and/or performance reasons

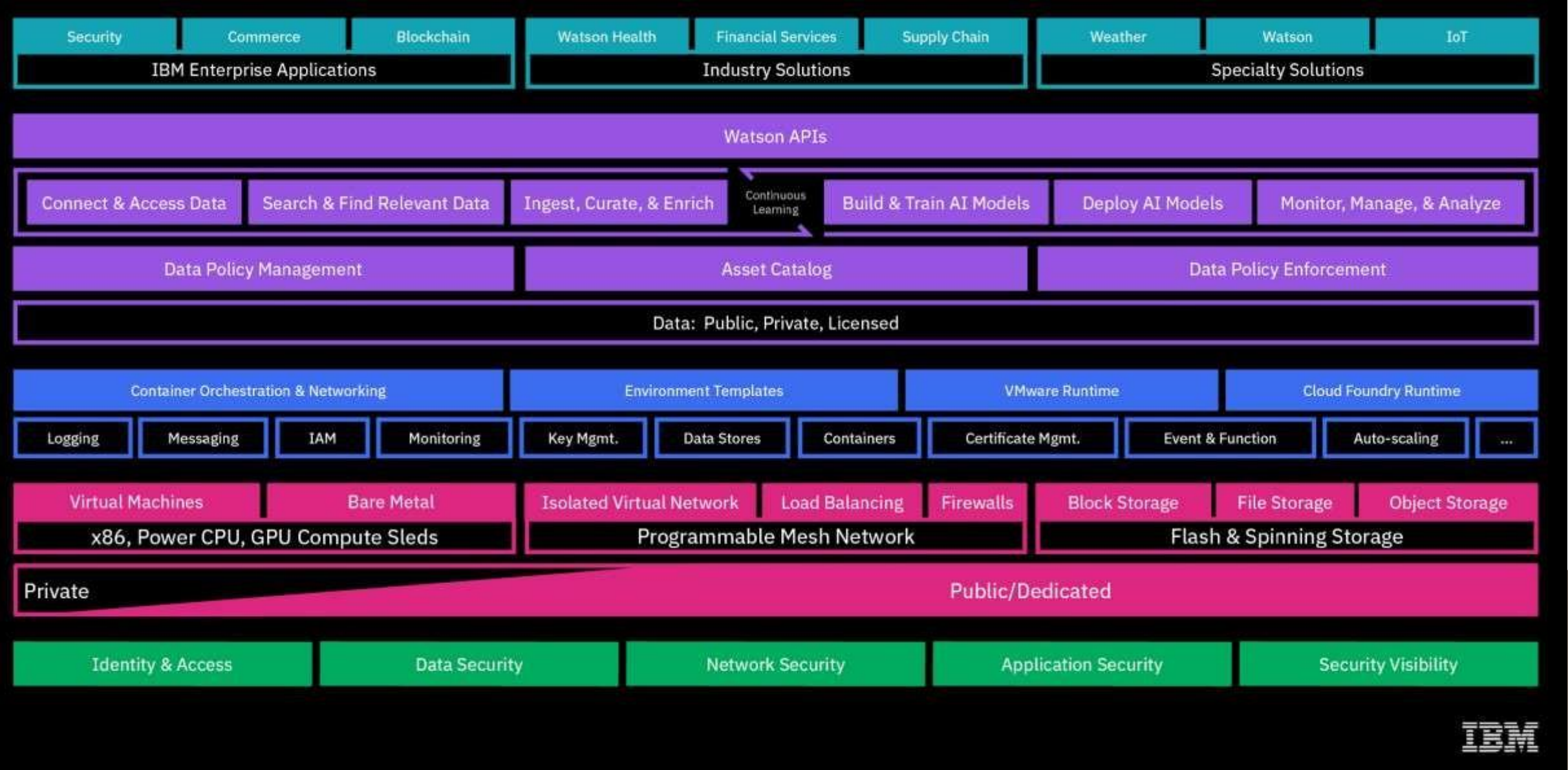
Organization seeks the security and compliance benefits of public cloud

100+ IBM Cloud services

Public



When to use
Organization embraces encrypted multi-tenant data and shared processing models



IBM is the Cloud for Business

Innovate with the latest technologies from any cloud.



AI READY

Create innovative, cloud-native apps using AI, IoT, blockchain, high performance computing and other disruptive technologies

BUILT FOR ALL YOUR APPLICATIONS

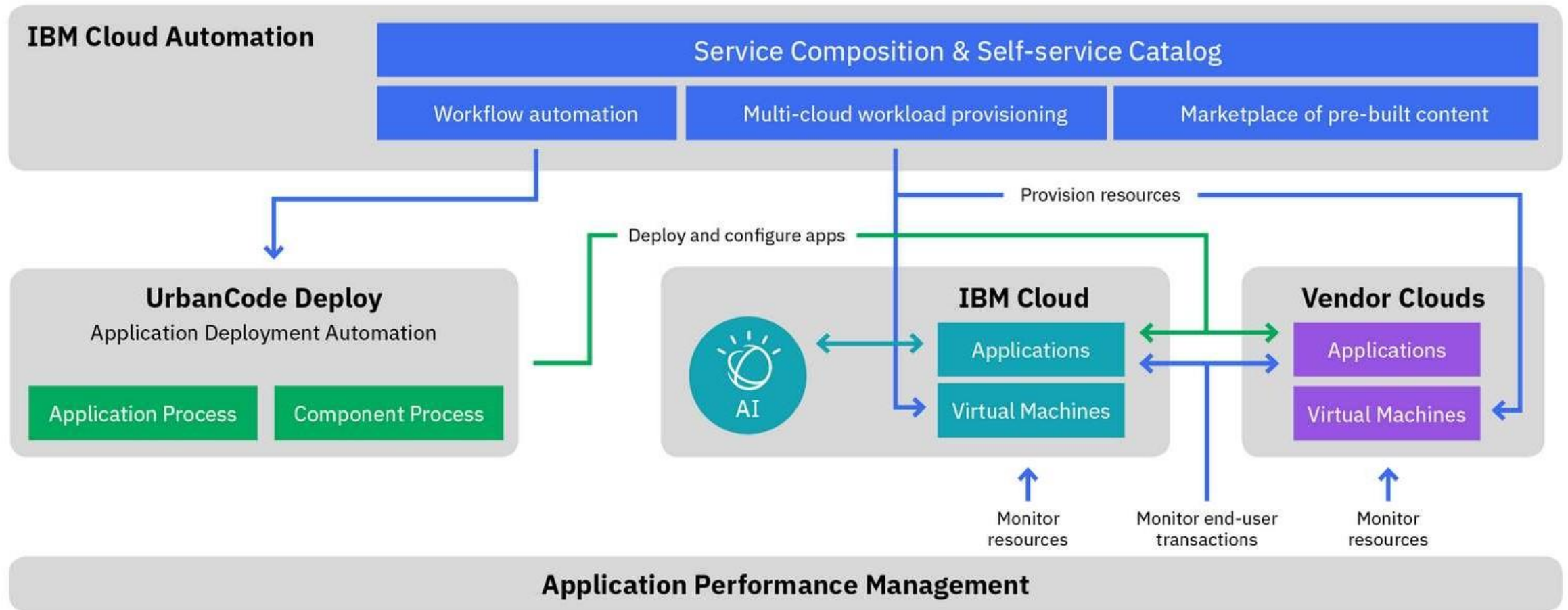
Exploit unmatched choice and industry expertise

SECURE TO THE CORE

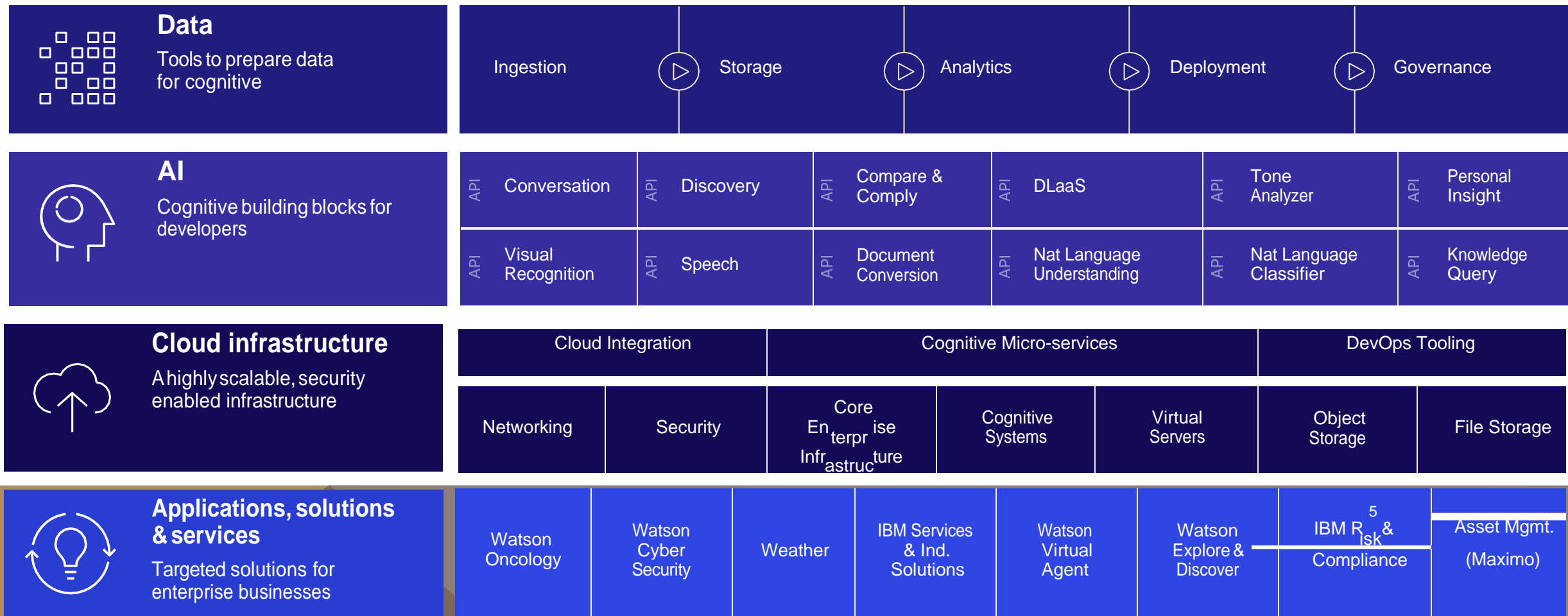
Deploy it where you need to on a secure network, without sacrificing quality and compliance

IBM provides tools to help clients manage multi-cloud environments

By 2020, more than 90% of enterprises will use multiple cloud services and platforms



Only the IBM Cloud delivers the technologies that



MATCHING THE RIGHT CLOUD TO THE RIGHT WORKLOAD

Enterprise transformation
required for cloud adoption

Private Cloud

Mature workloads

Workloads needing
low latency to back ends

Existing database
workloads

Maintain & Evolve

Applications with
complex processes
and transactions

Highly customized
applications

Not yet virtualized
applications

Applications with
sensitive data

Regulation-intensive
applications

Information-intensive
applications

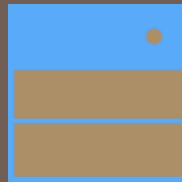
Batch processing

WIDEST SELECTION OF COMPUTE OPTIONS FOR ANY WORKLOAD, ACROSS GLOBAL INFRASTRUCTURE

PERFORMANCE &
CONTROL

PORTABILITY

DEVELOPMENT SPEED



Virtual Server

Leverage existing
languages and tools



Containers

Maximum portability



Platform as a Service

Extensive runtime
options



Serverless

Maximum speed with
serverless apps

IBM CLOUD PRIVATE BRINGS CLOUD NATIVE TO THE ENTERPRISE



- **Open Kubernetes-based container platform**
- **Cloud Foundry for app dev and deployment**
- **DevOps toolchain integration**



Hybrid Integration

- **Integration capabilities to unlock and connect**
- **Secure access to public cloud services (AI, Blockchain)**
- **Consistent experience across private/public**



Investment Leverage

- **Containerized versions of IBM Middleware**
- **Prescriptive guidance to optimize workloads**
- **Work with existing apps, data, skills, infrastructure**



Management & Compliance

- **Core operational services including logging, monitoring, security**
- **Flexibility to integrate with existing tools and processes**

IBM is the
**Cloud for
Business.**

Yours.

