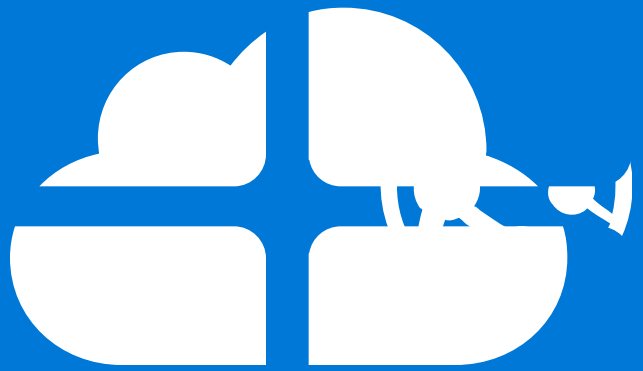
Microsoft

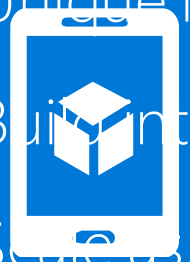
Azure App Service Session 1

Michael Saul
Azure technology Solution Professional

Introducing Azure Apps Service



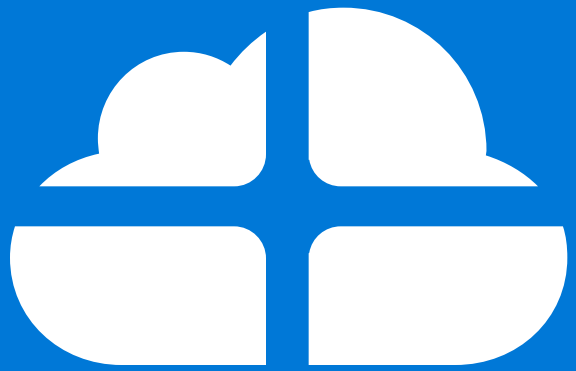
- → Unique integrated offering
- → Build intelligent web and mobile apps
- → Scale as your business grows



Mobile Services

Biz Talk Services

One Integrated Offering



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Web Apps

Web apps that scale with your business

Mobile Apps

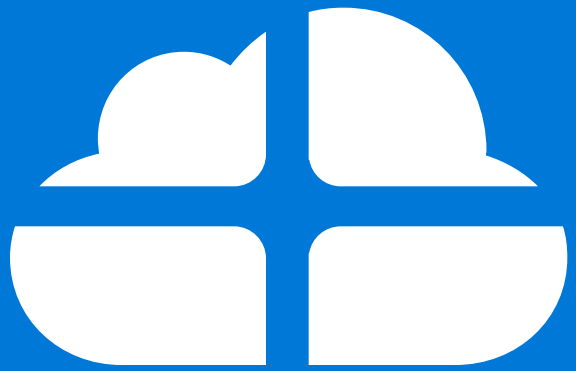
Build Mobile apps for any device

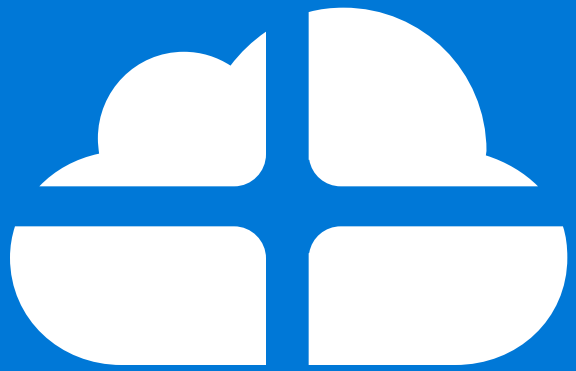
Logic Apps

Automate business process across SaaS and on-premises

API Apps

Easily build and consume APIs in the cloud





= one low price

Features

App Service Apps Features & Capabilities

All features and capabilities are shared across all of App Service application (Web, Mobile, and API)

Enterprise Grade Apps

Designed for secure mission-critical applications

- Hybrid Connections / VPN Support
- Scheduled Backup
- Azure Active Directory Integration
- Site Resiliency, HA, and DR
- Web Jobs
- Role Base Access Control
- Audit / Compliance
- Enterprise Migration
- Client Certs
- Cache
- IP Restrictions/ SSL
- Web Sockets
- SQL, MySQL, DocDB, & Mongo
- Sticky Sessions
- Authorization/ Authentication

Fully Managed Platform

Optimized for Availability and Automatic scale

- Automated Deployment
- AutoScale
- Built-in Load Balancing
- WW Datacenter Coverage
- End Point Monitoring & Alerts
- App Gallery
- DR Site Support
- WildCard Support
- Dedicated IP address
- HTTP Compression
- CDN Support for Websites
- Premium WordPress
- App Services Environments

Built for DevOps

Agility through Continuous Deployment

- Remote Debugging w/ Visual Studio
- Site Staging Slots
- Testing in Production
- Continuous Integration/Deployment
- Git, Visual Studio Online and GitHub
- App & Site Diagnostics
- OS & Framework Patching
- Site Extensions Gallery
- NET, PHP, Python, Node, Java
- Framework Installer
- Browser-based editing
- Auto-Healing
- Logging and Auditing
- Admin-Site
- Support Site Extension

Mobile Apps

Mobile SDKs

Windows
iOS
Android
HTML 5/JS

Xamarin
PhoneGap
Sencha

Offline sync

REST API

Data Sync

Data Connections

SQL
Tables
Mongo
O365
Salesforce
Dynamics
On-Premises

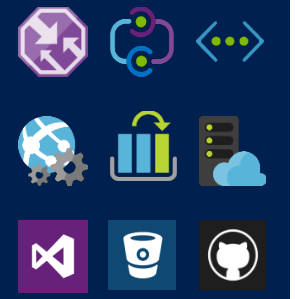
User Authentication

Facebook
Twitter
Microsoft
Google
Azure Active Directory

Push Notifications

iOS OSX
Chrome
Android
Windows
Kindle
In-App

Backend Code



API Apps

Client Access

- API Management
- Generated SDKs
- Mobile SDKs

Windows
iOS
Android
HTML 5/JS

Xamarin
PhoneGap
Sencha

App Service Access

- Logic Apps
- Web, Mobile, API Apps

REST API

User Authentication

Facebook
Twitter
Microsoft
Google
Azure Active Directory

App Authentication

Client Certificate
Azure AD Service Principal

CORS

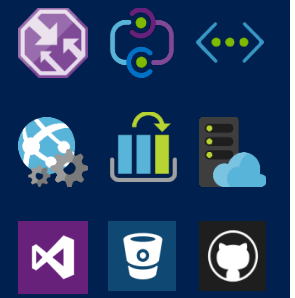
Metadataa

Swagger

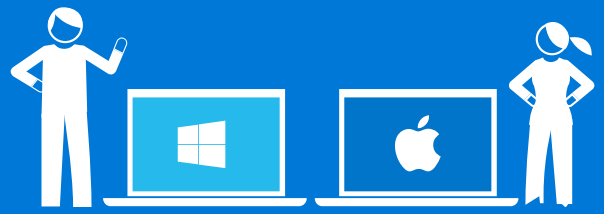
On-premises

VPN
Hybrid Connections

Backend Code

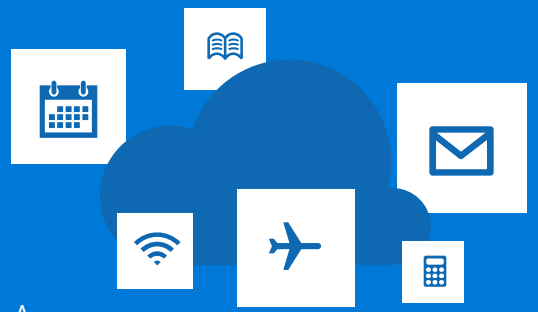


API Management



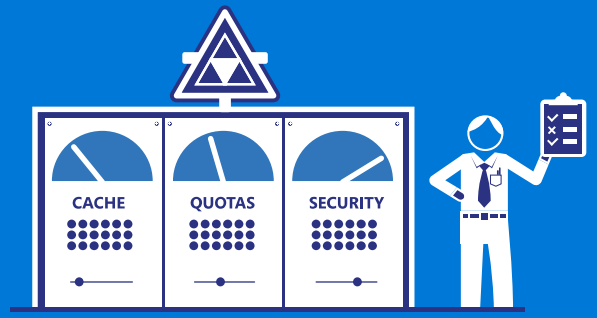
App Developers

Developer Portal



Apps

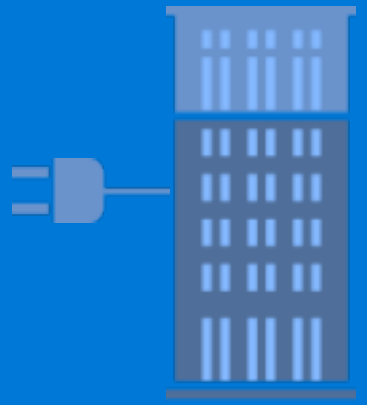
Proxy



Api Publishers

Publisher portal

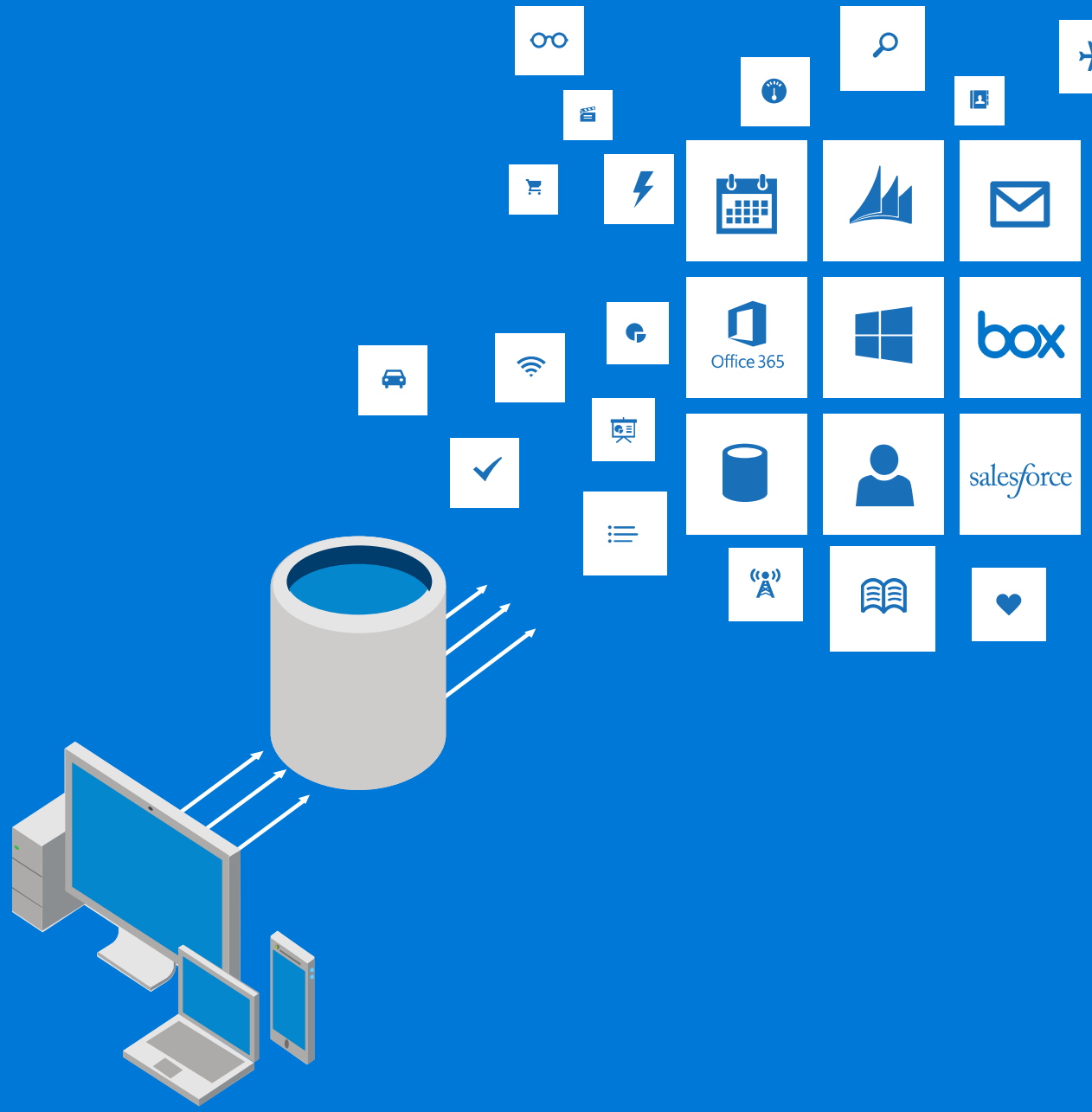
Hosted **anywhere**.
Developed using **any** technology.



Backend Services

Logic Apps - Connect and automate common tasks

- Use simple, intuitive tools
- Create crucial, reliable tasks without coding
- Integrate your mobile and web-based apps
- Connect existing apps to SaaS services



The Next Level

Define *control flow* on your actions

- Conditions determine whether the action should execute
- For each executes an action for each item in a collection
- Do-while will continually execute an action until a condition is met

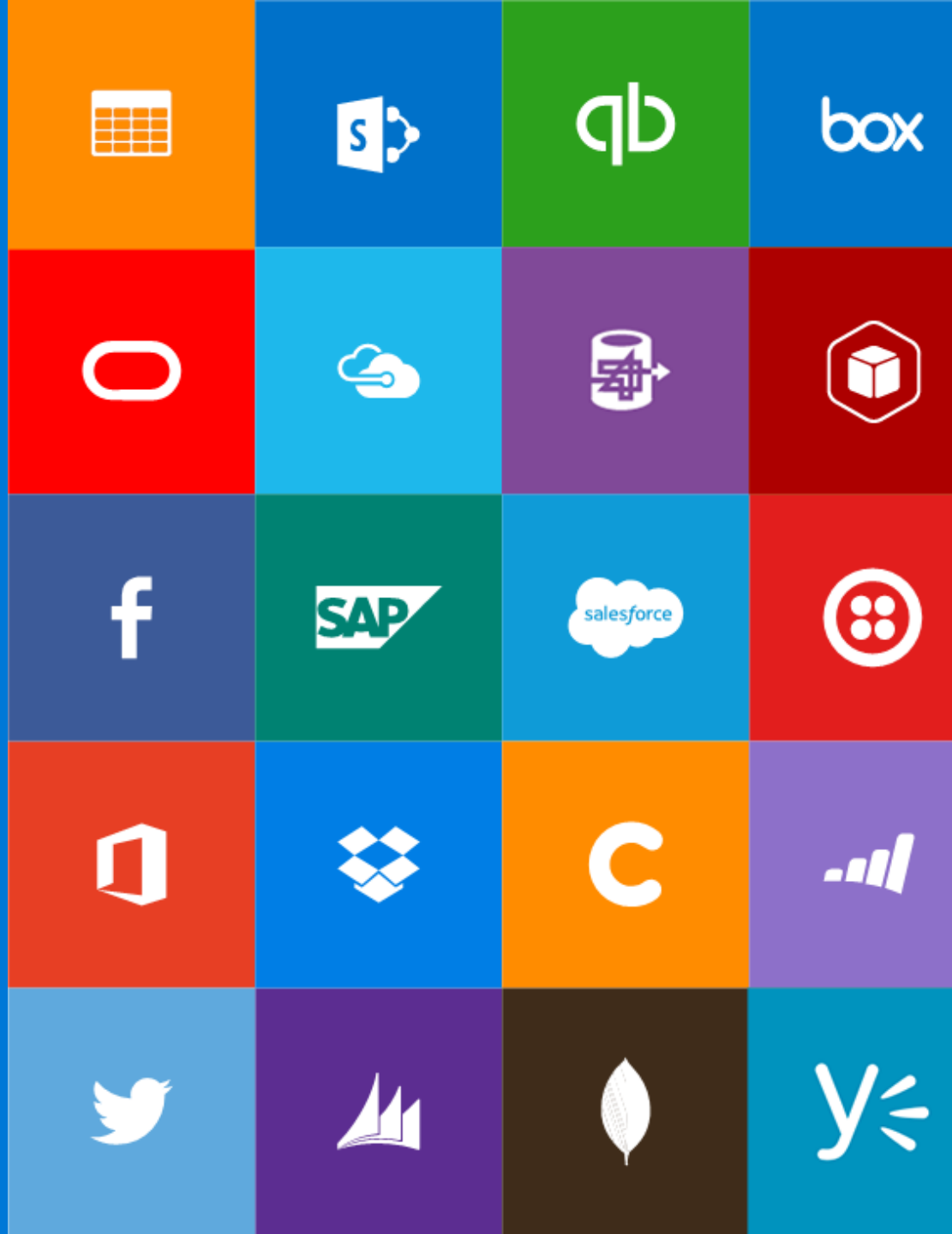
Built-in API Connectors

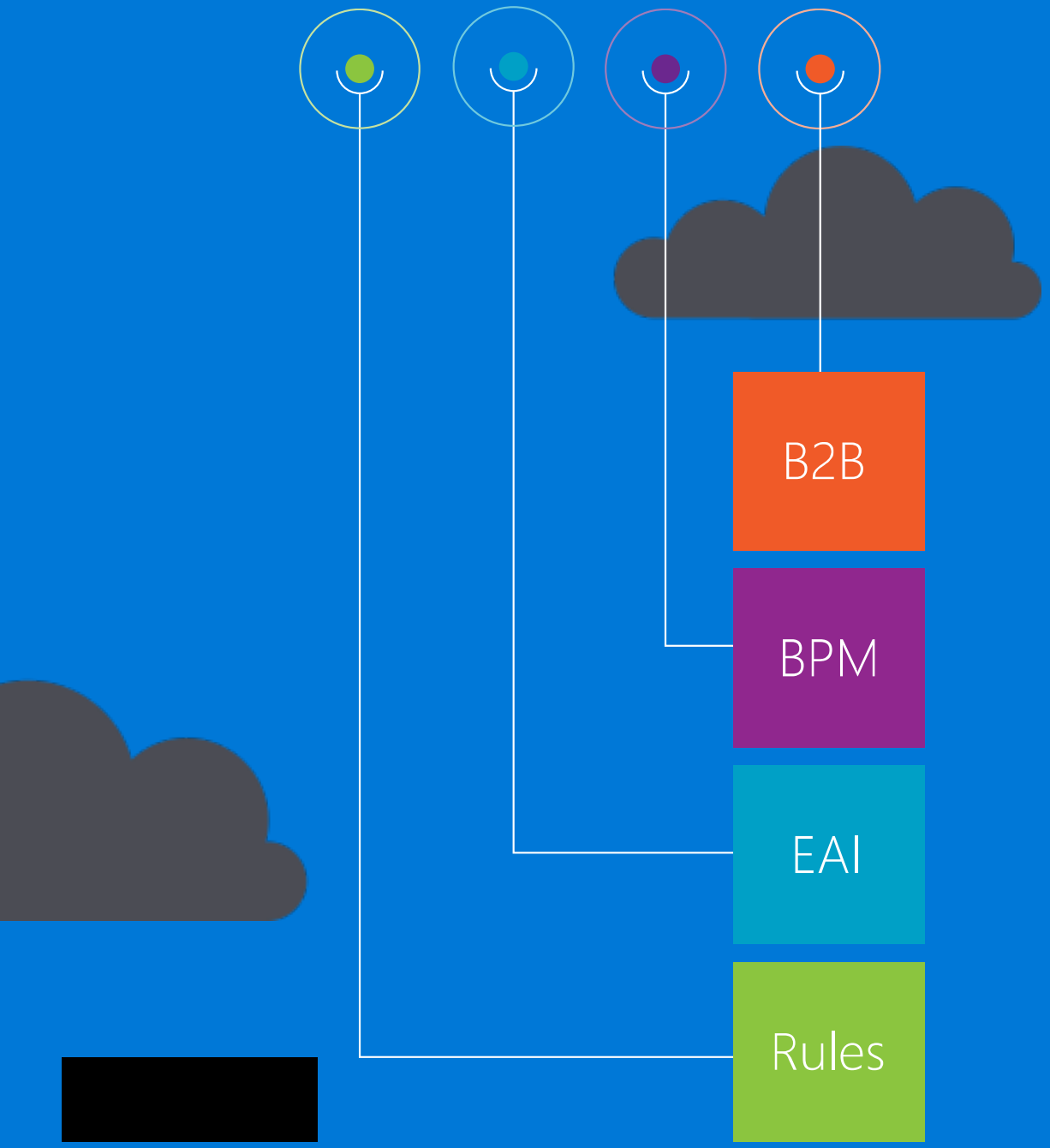
Connectors

Box
Chatter
Delay
Dropbox
Azure HD Insight
Slack
Azure Media Services
OneDrive
SharePoint
SQL Server
Office 365
Oracle
QuickBooks
SalesForce
Sugar CRM
SAP
Azure Service Bus
Azure Storage
Timer / Recurrence
Twilio
Twitter
IBM DB2
Informix
Websphere MQ
Azure Web Jobs
Yammer
Hybrid Connectivity

Protocols

HTTP, HTTPS
File
FTP, SFTP
POP3/IMAP
SMTP





BizTalk Integration features

Connectors for protocols, SaaS, Enterprise systems

Validation

Batching/Debatching

Format Conversion (XML, JSON, FlatFile)

Extract

Transform

Mediation Patterns (Request Response, One Way etc)

Message Routing

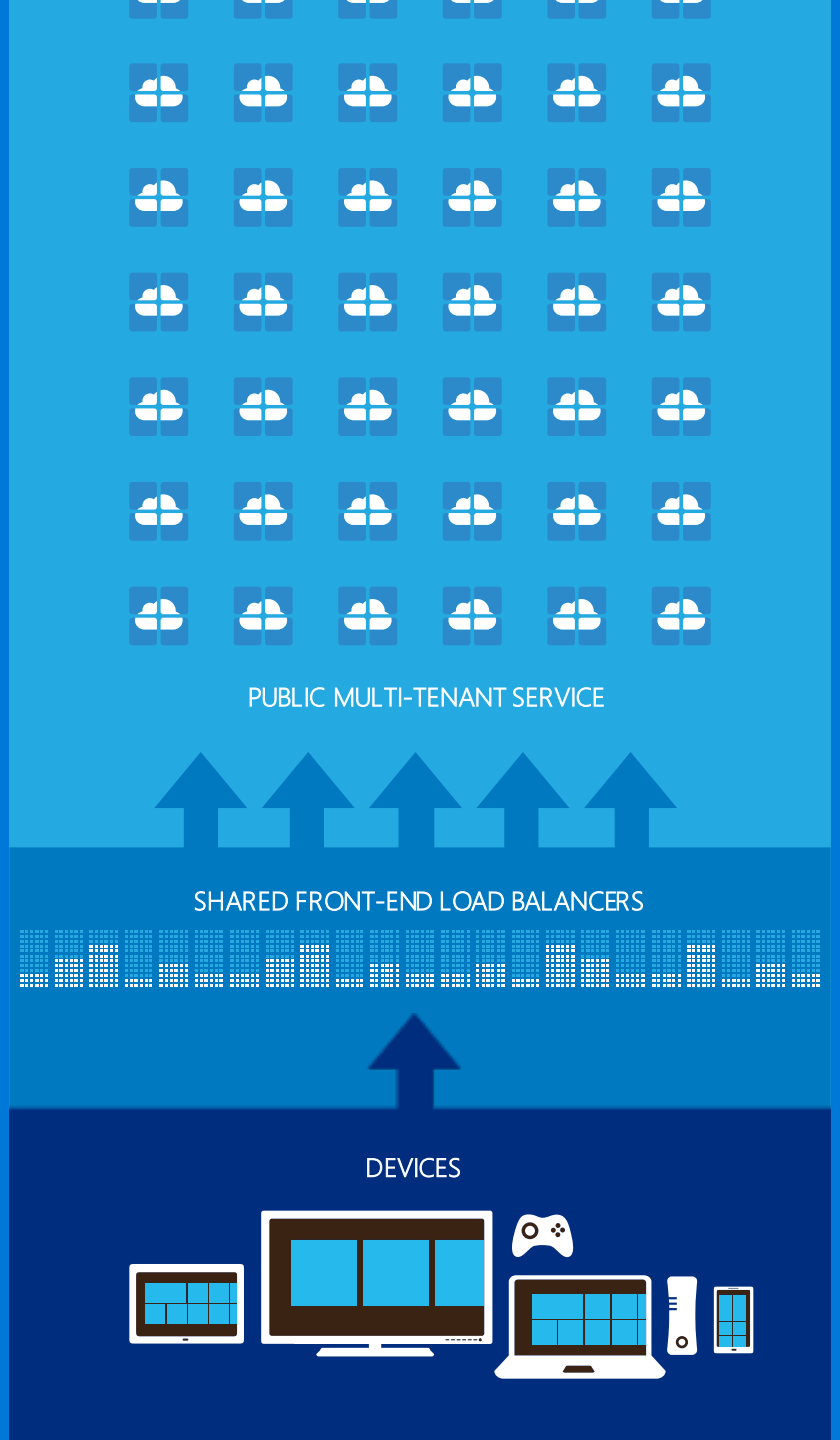
Business Rules

Trading Partner Management

B2B - AS2/X12/EDIFACT

App Service Environment

App Service Public Multi-Tenant Service



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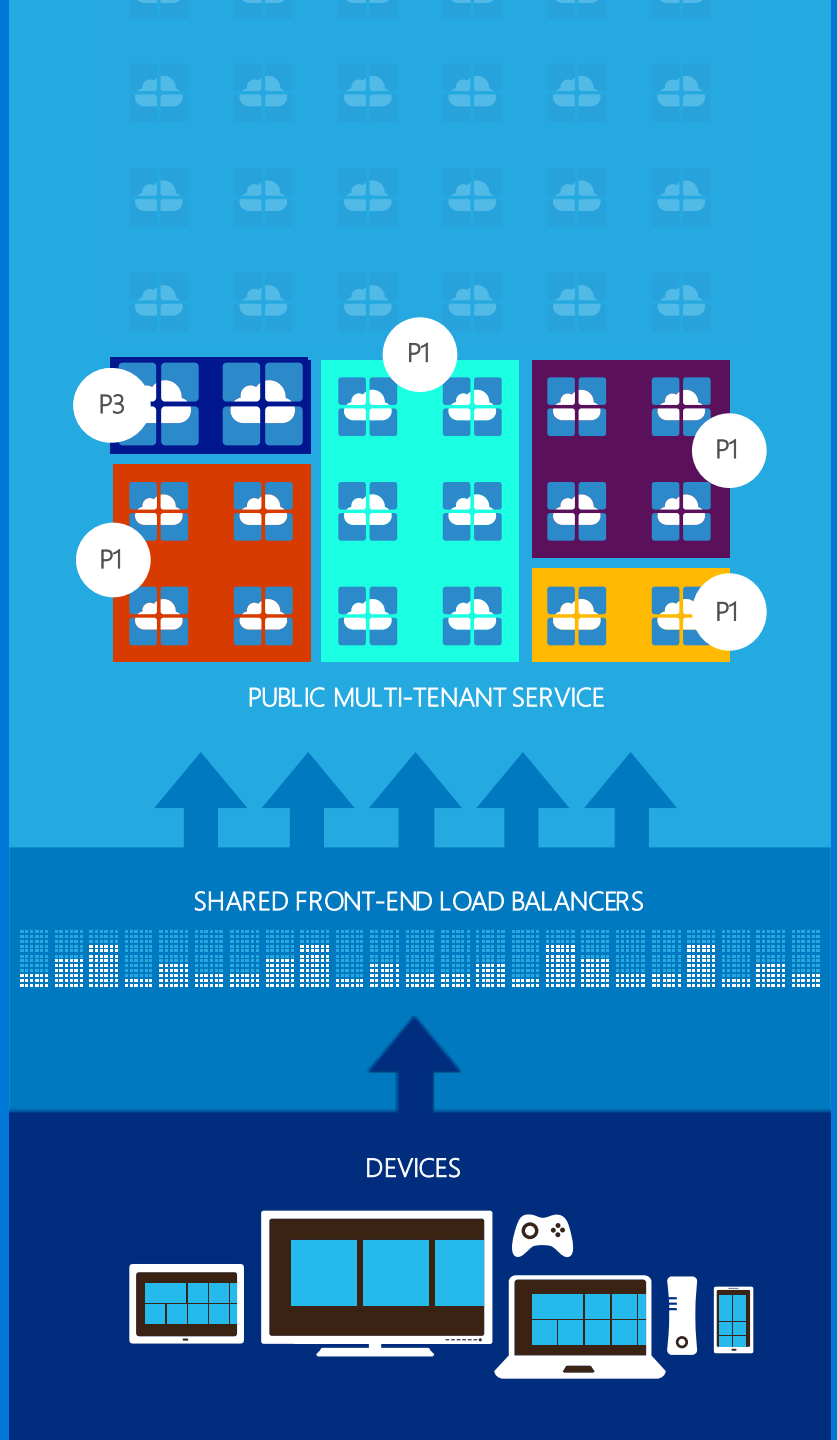

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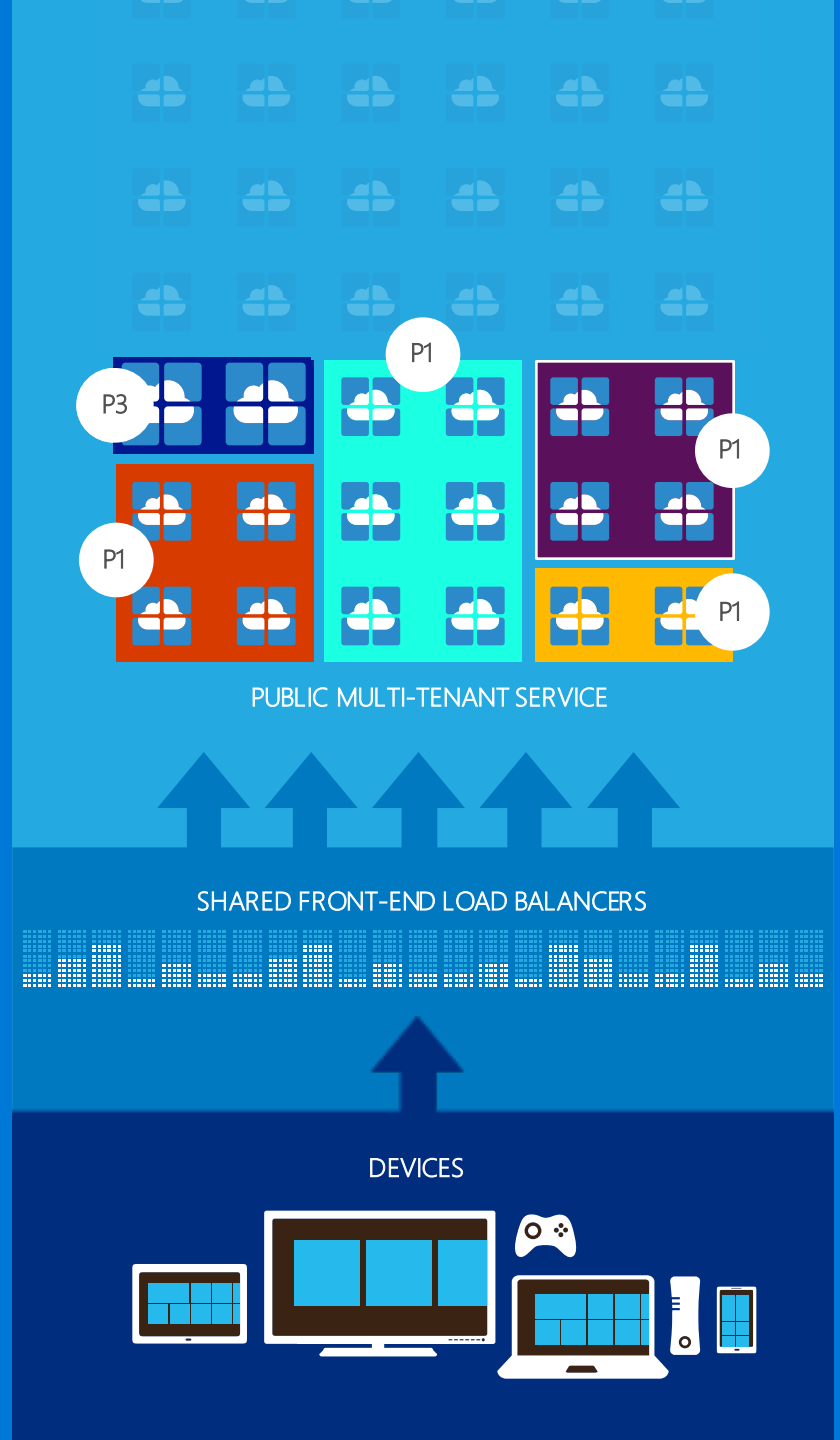
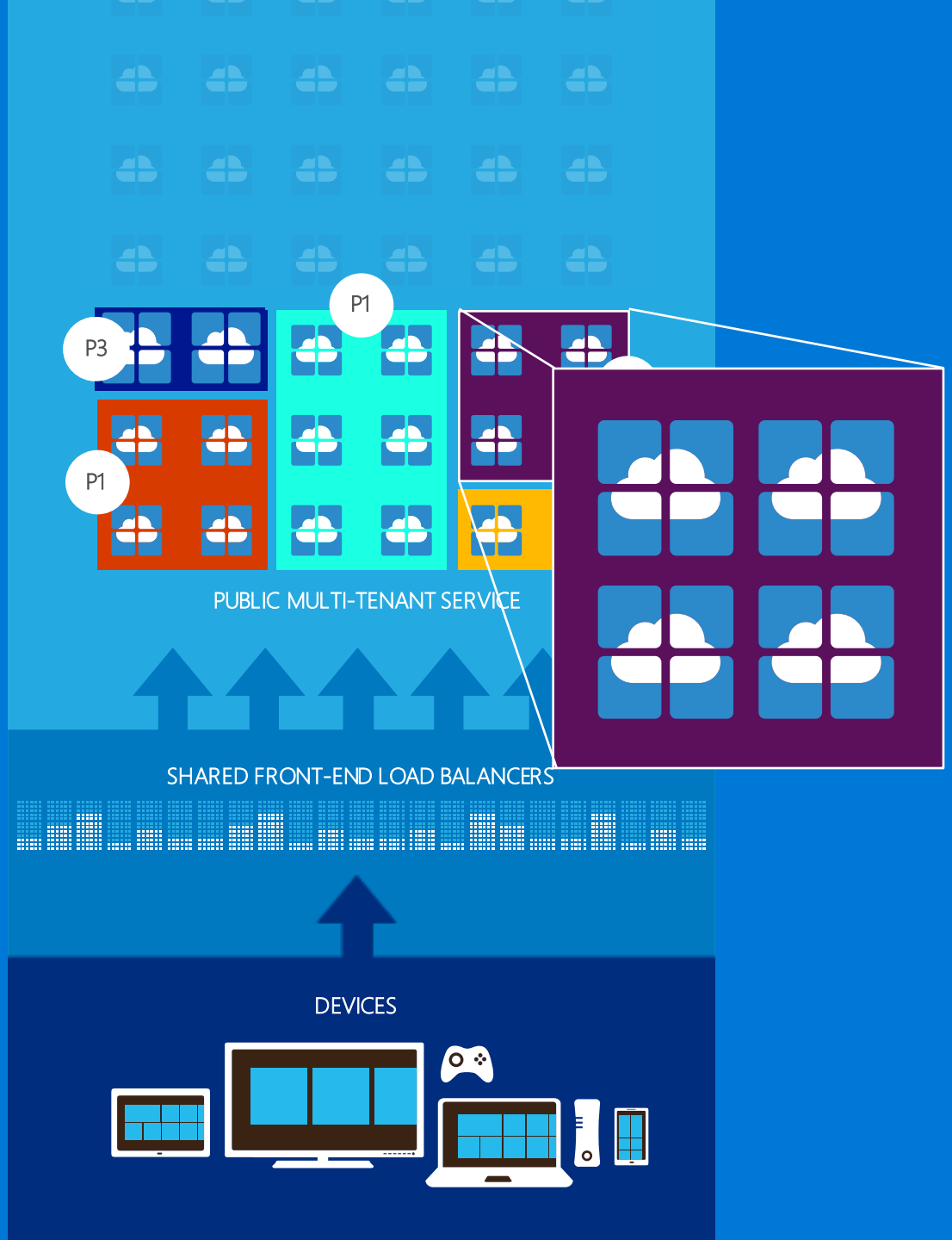


DEDICATED WORKER POOL1

App Service Public Multi-Tenant Service



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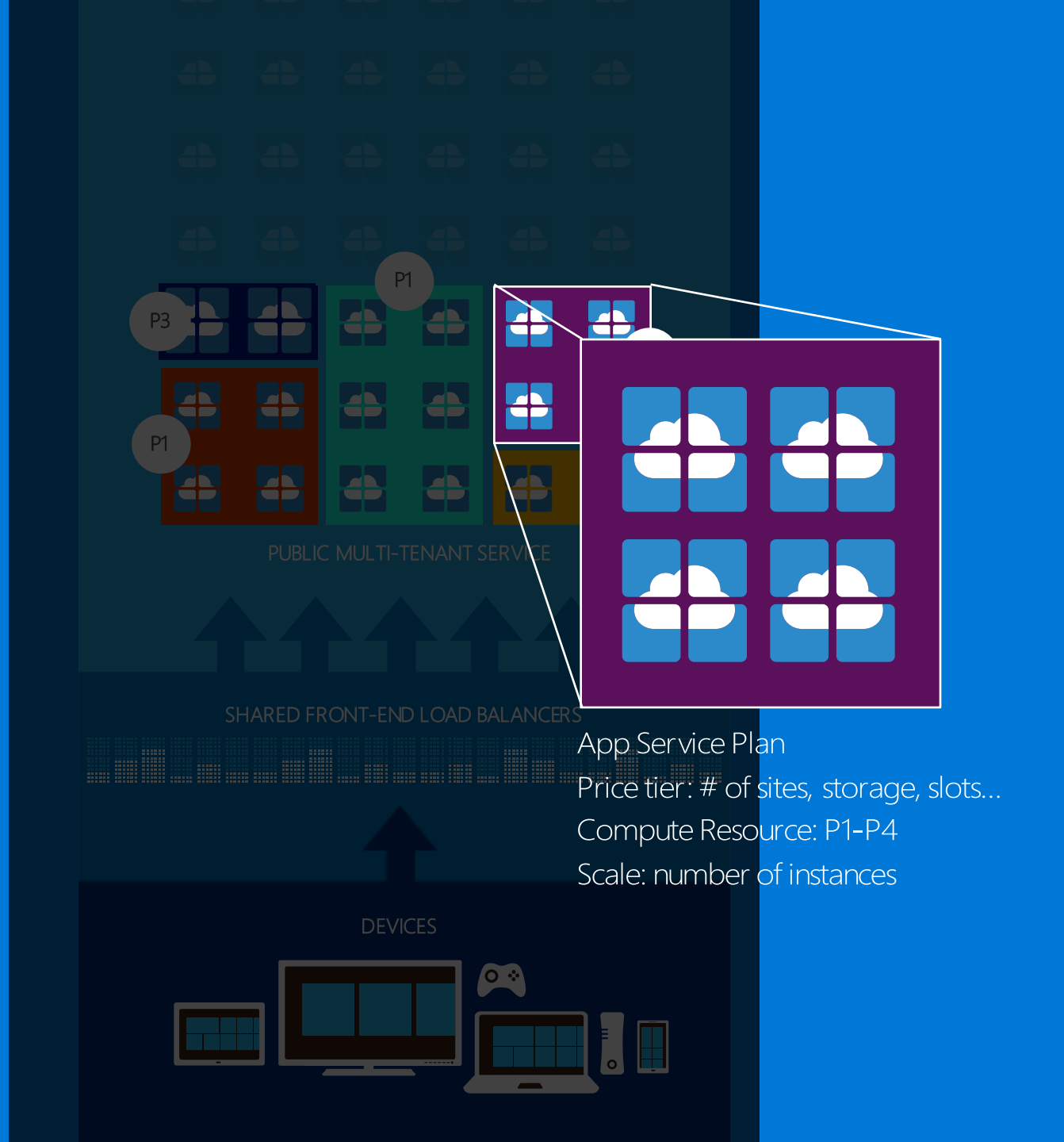


App Service Plan

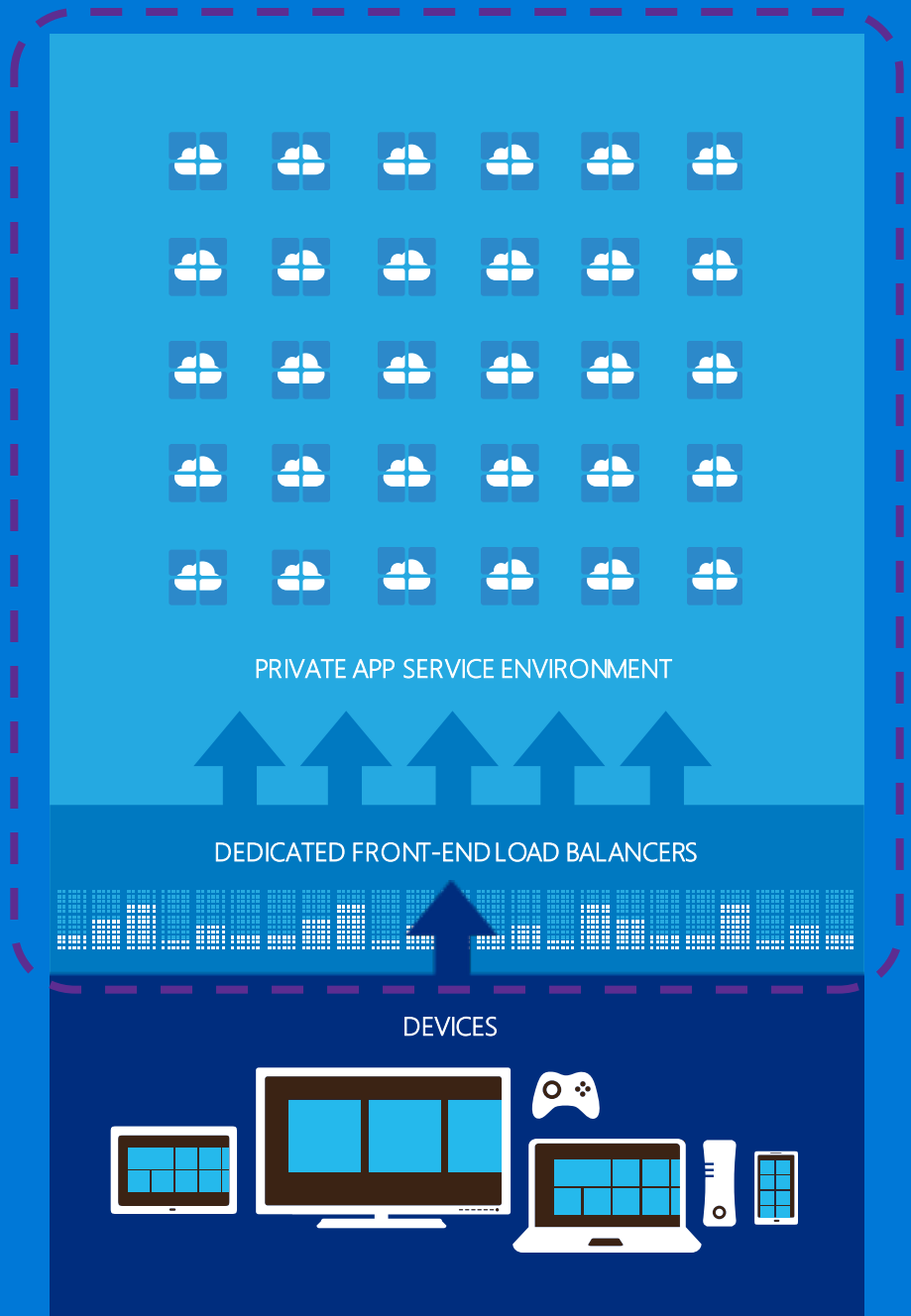
Price tier: # of sites, storage, slots…

Compute Resource: P1-P4

Scale: number of instances

App Service Environment

(Private Infrastructure)



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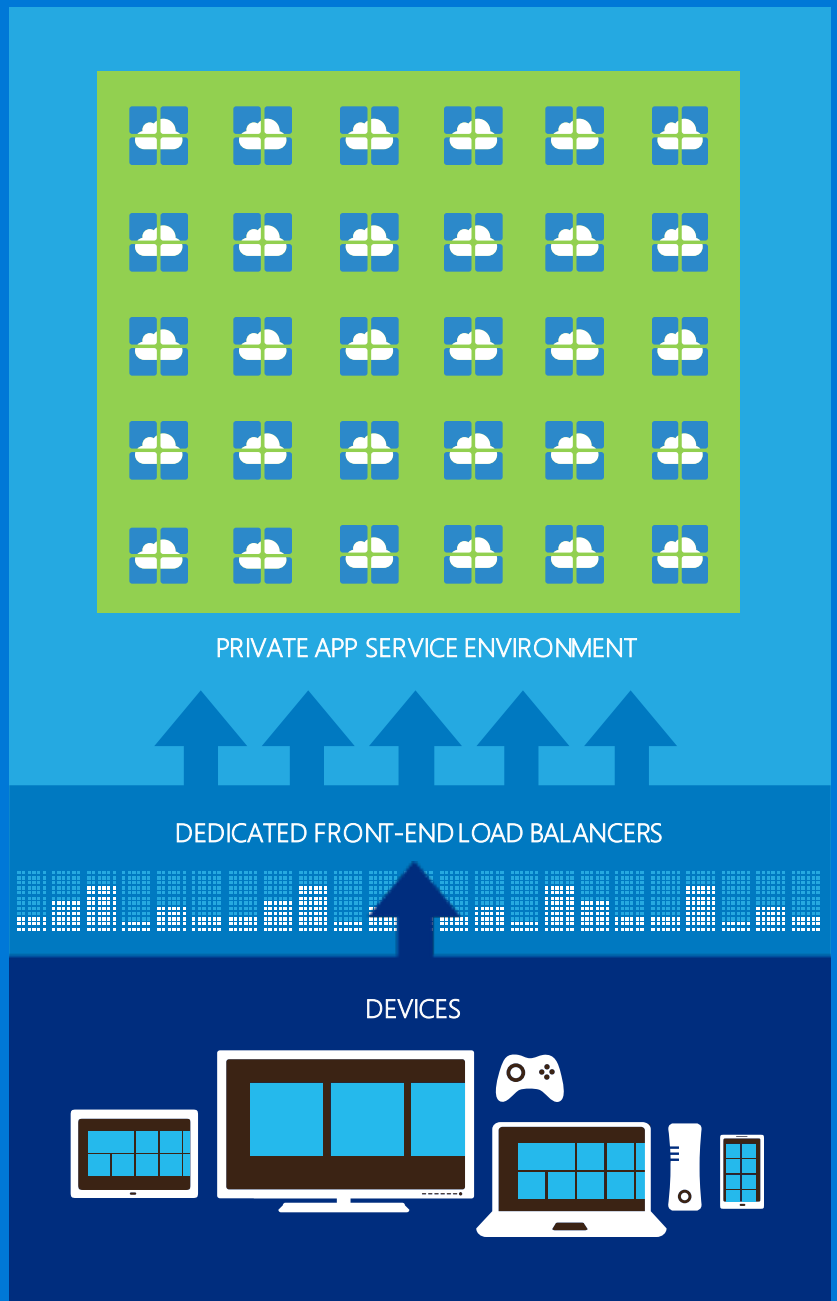

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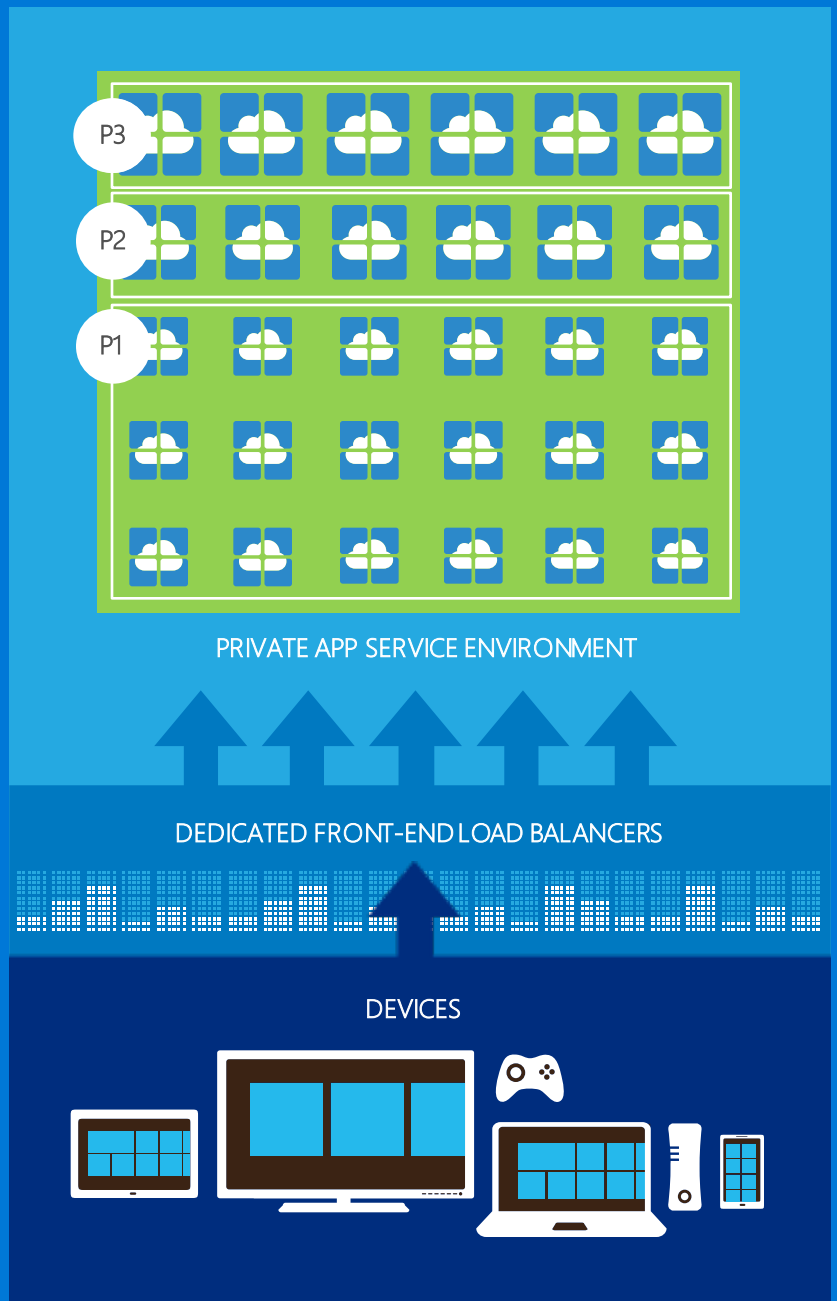
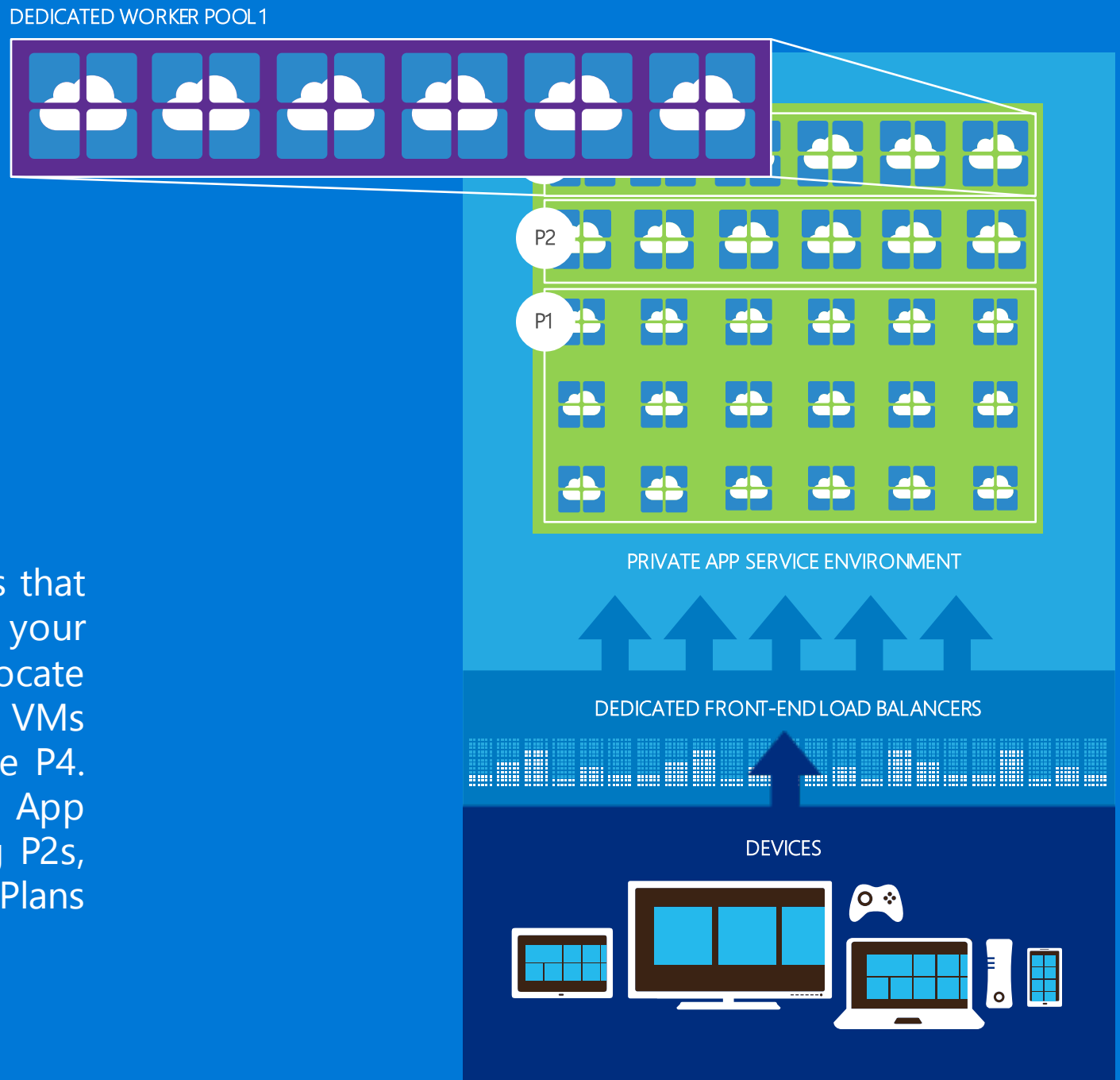


App Service Environment

(Private Infrastructure)

A Worker Pool is a pool of VMs that you allocate in ASE for use by your apps. For example you can allocate 20 VMs of size P2, another 20 VMs of size P3, and 10 VMs of size P4. Now you can create a mix of App Service Plans, with some using P2s, others using P3s, and other Plans using P4s.



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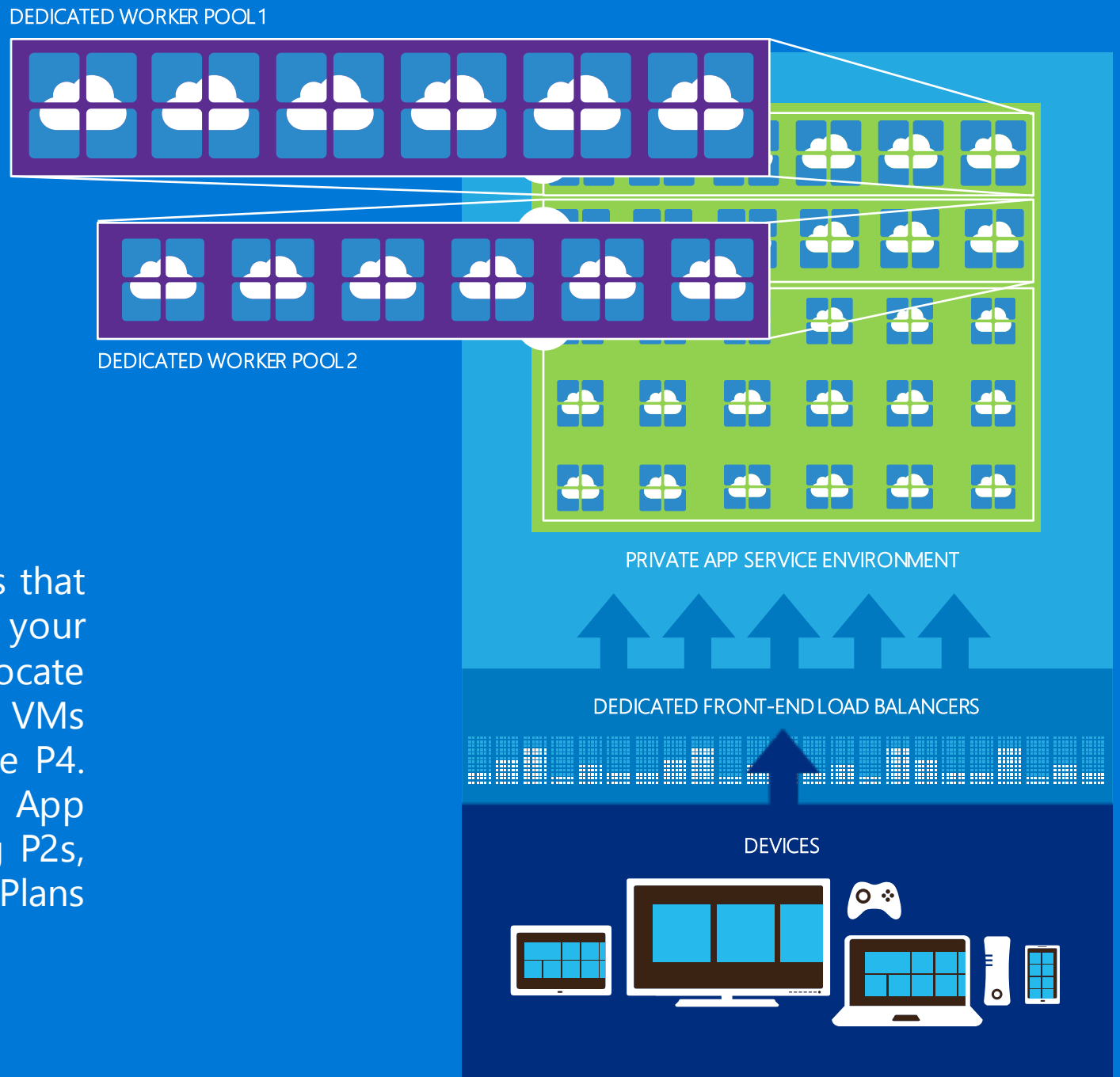

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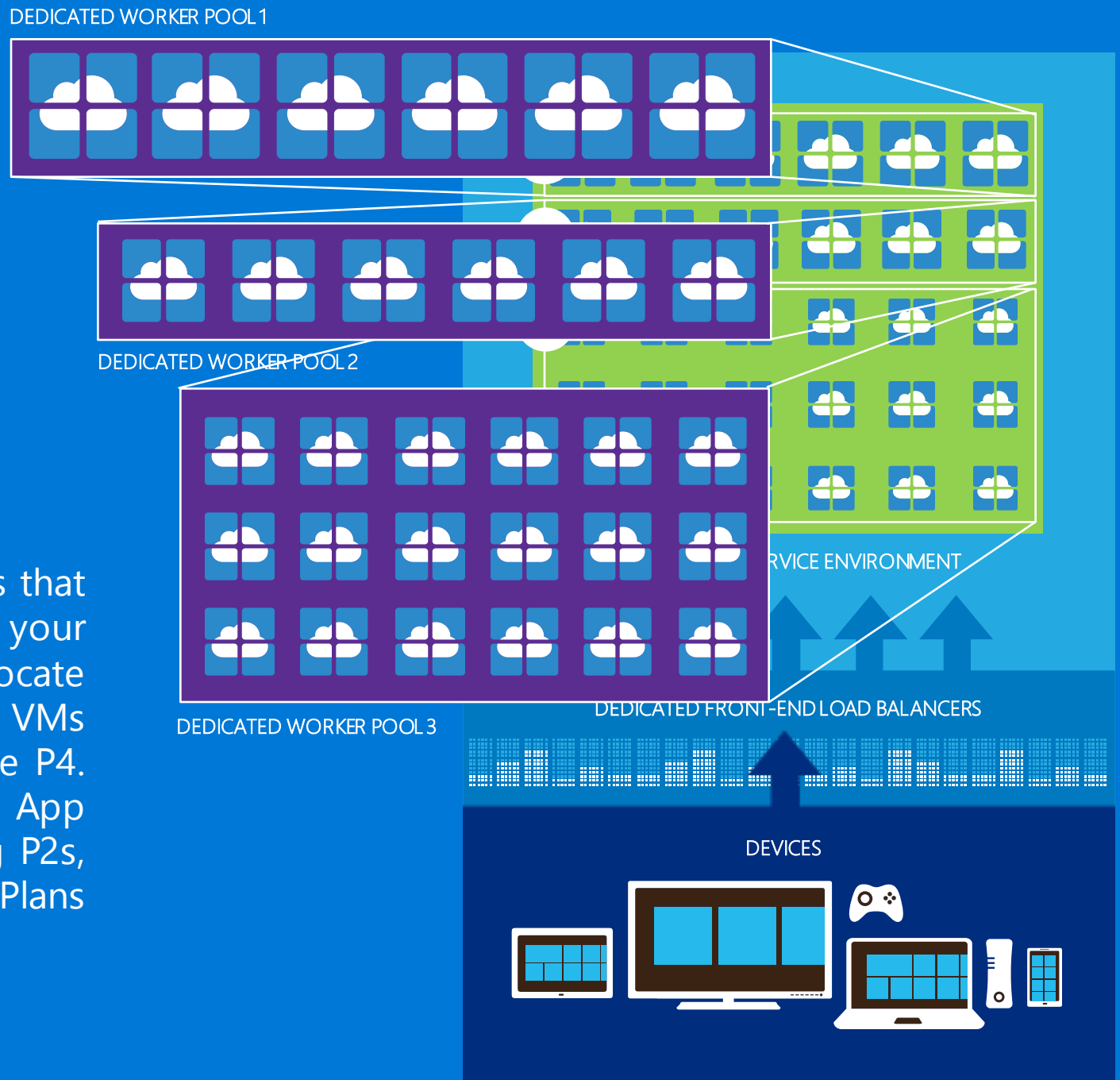

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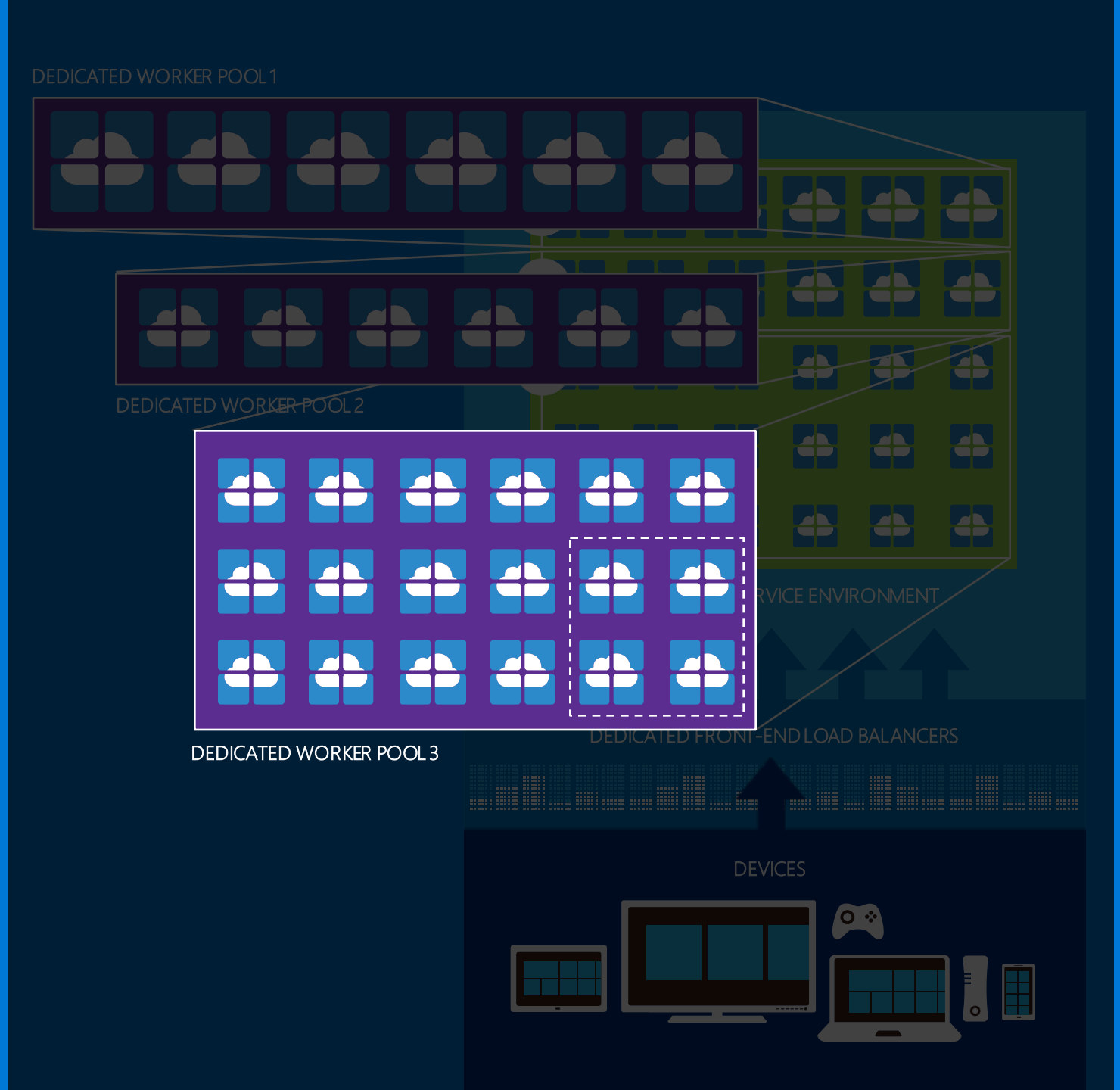

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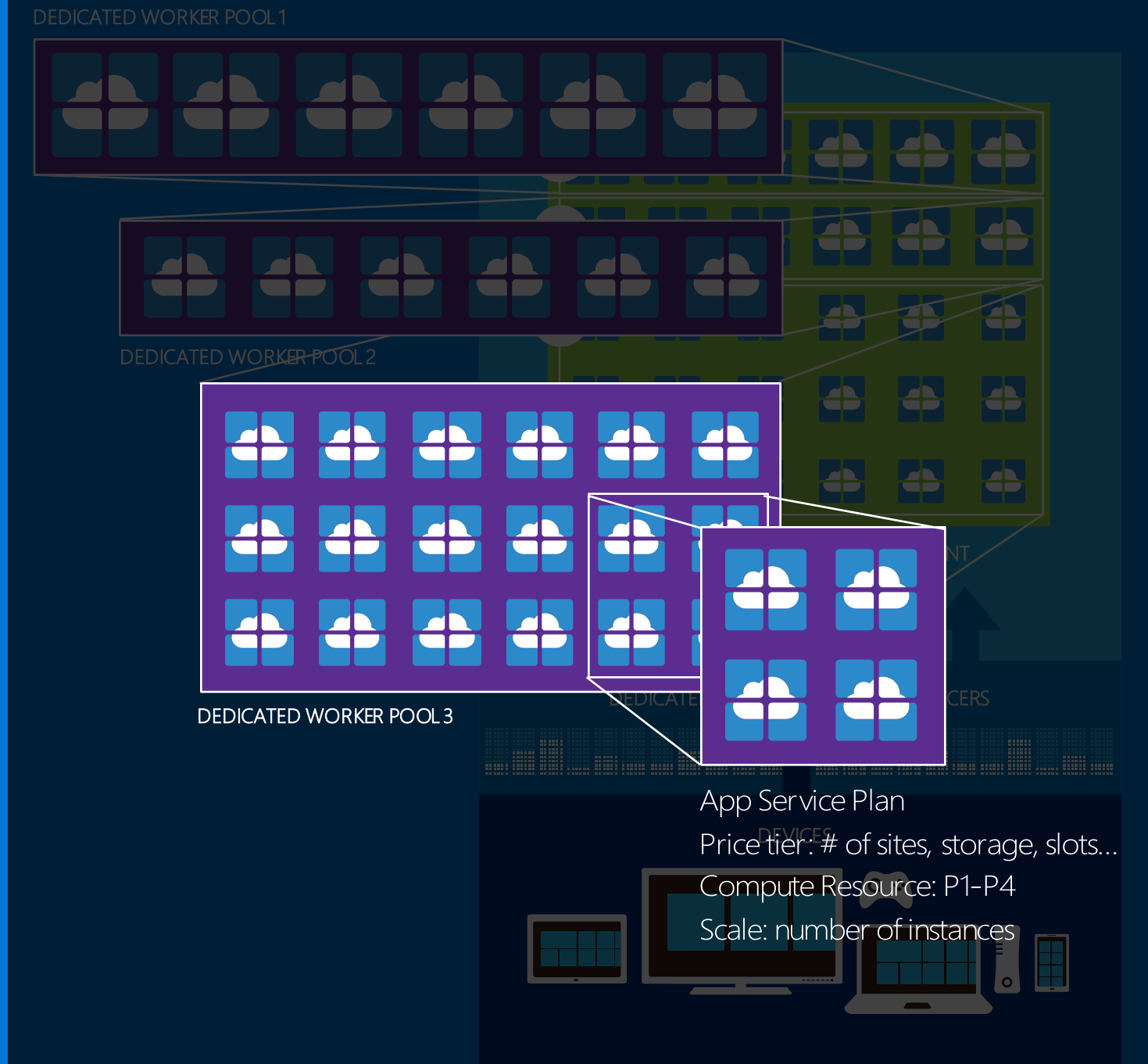

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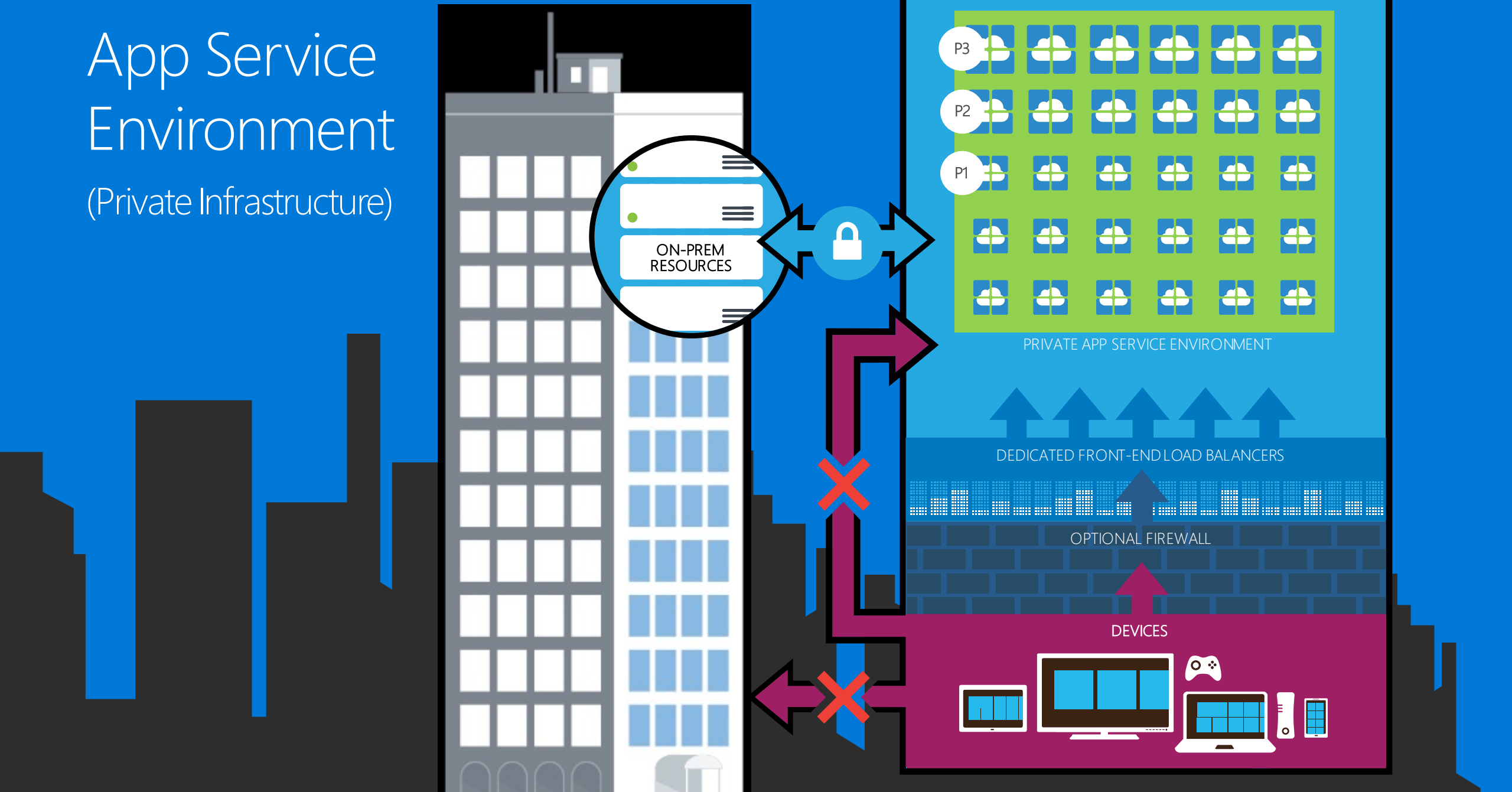

Azure App Service Demo

Michael Saul

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