



2018
Global Azure
BOOTCAMP

ARGOMENTO

PaaS Opportunities in Azure

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“

Lift & Shift



Cloud for Lift&Shift
Don't rewrite

60%



“

PaaS if possible
IaaS if (really really really) needed



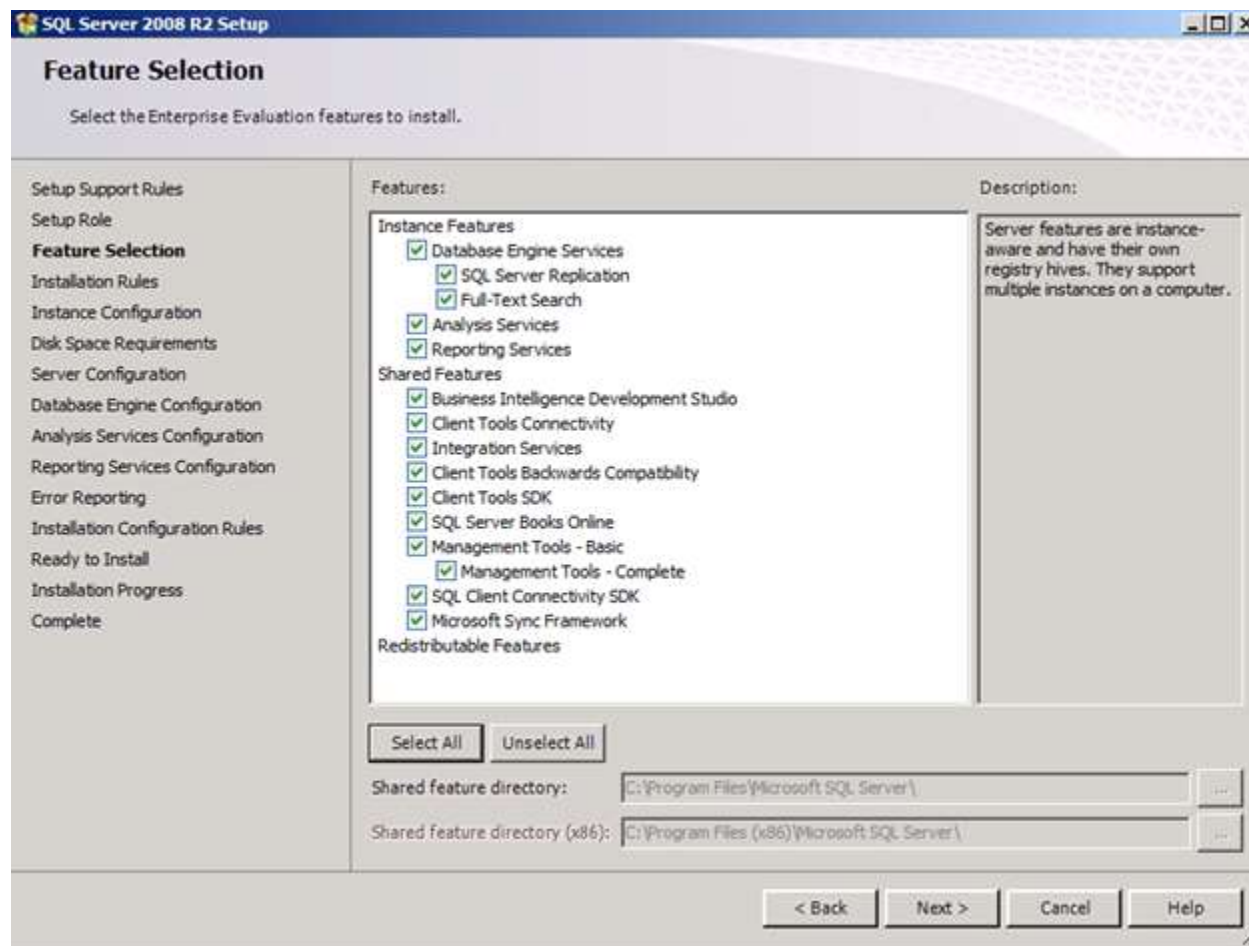
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In ogni training Azure il primo argomento dovrebbe essere sempre «creare una VM»



FALSO!

Lavorare con Azure significa essere
Dev o un o' Dev e non un o' Op



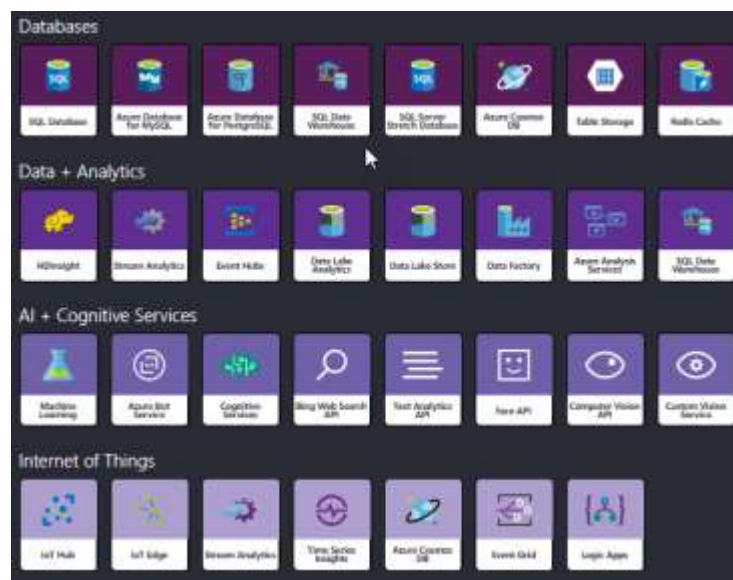


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I Dev sono più consapevoli delle
Ops

Tanti tanti servizi...

<http://azureinteractives.azurewebsites.net/Azure101Cards/>





“

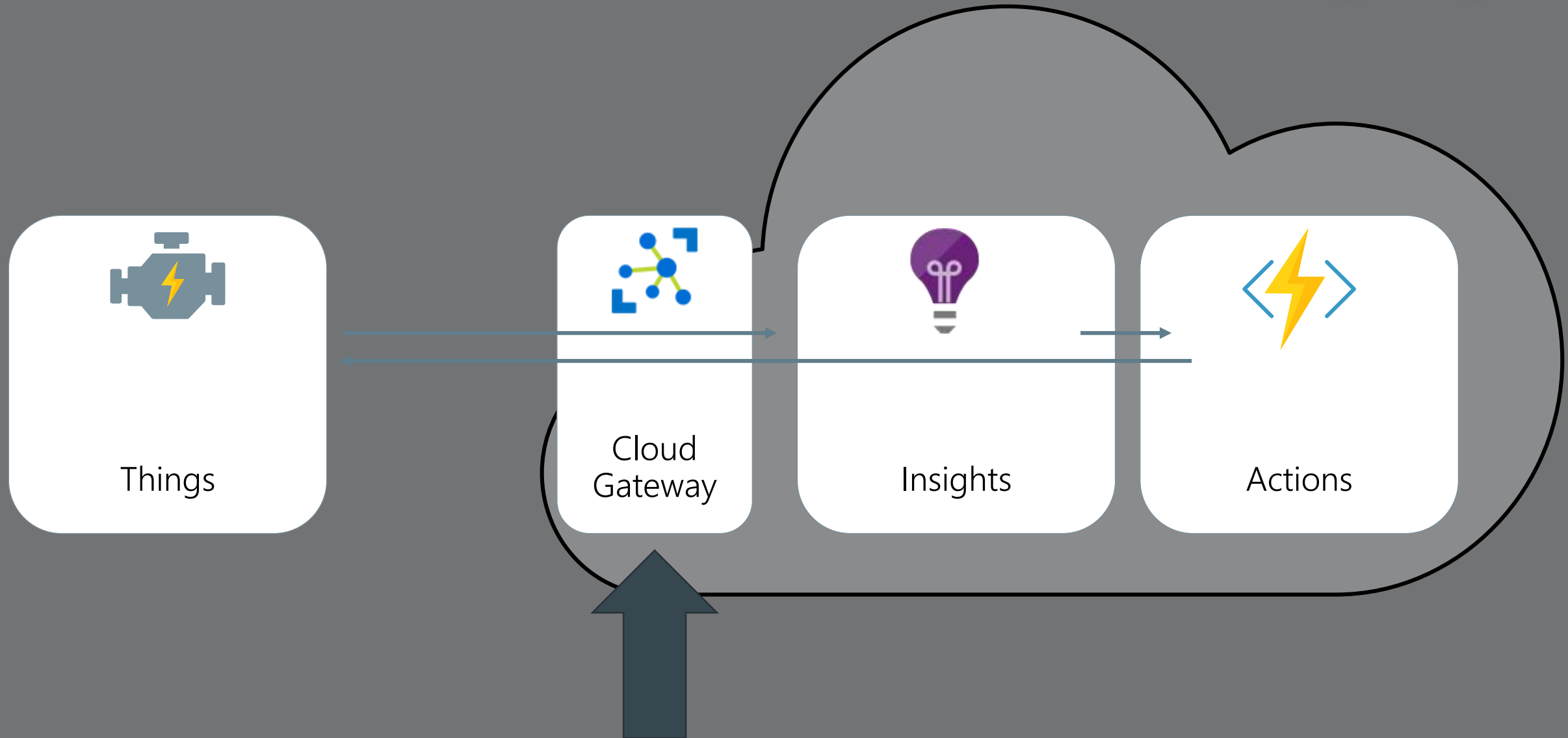
Make or Buy?



“

(Level of) PaaS

The IoT Scenario/Pattern





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Acquisire dati telemetrici
=
Cloud Gateway

Perchè vorrei pubblicare su un App Service su Windows o su Linux



Pick a publish target

- App Service
- App Service Linux
- Azure Virtual Machines
- Container Registry
- IIS, FTP, etc
- Folder

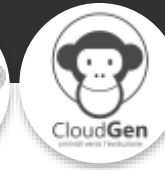
Azure App Service
Fully managed, and highly scalable cloud environment

☒ Create New
☐ Select Existing

«Perchè non voglio pensare all'infrastruttura ma solo all'problema»

Import Profile... Publish ▼ Cancel

Perchè vorrei pubblicare in un Container?



Pick a publish target

- App Service
- App Service Linux
- Azure Virtual Machines
- Container Registry**
- IIS, FTP, etc
- Folder

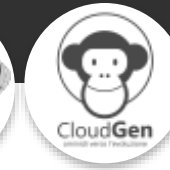
Container Registry
Registry for storing and deploying Docker images

- ☒ Create New Azure Container Registry
- ☐ Select Existing Azure Container Registry
- ☐ Docker Hub
- ☐ Custom

«perchè voglio garantirmi la miglior esperienza di deployment»

Import Profile... Publish Cancel

Perchè vorrei pubblicare su Function?



Pick a publish target

Azure Function App

Folder

Azure App Service
Fully managed, and highly scalable cloud environment

☒ Create New

☐ Select Existing

«Perchè voglio strutturare la mia soluzione con il serverless e gli eventi»

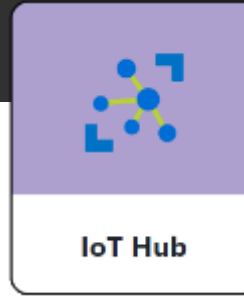
Import Profile... Publish Cancel

Two level of complexity:

- Implementation:
 - Protocol and socket support
 - Coding
 - (Hardware) Bugs
 - (Lot of) (Load | Unit | Integration) Testing
 - Security (?)
- Scalability
 - Support hundreds of devices (Multiple VMs or containers)
 - Scaling out (Load Balancer)
 - Networking (IP and DNS)

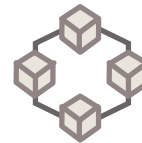
6 mesi+tanti timori

Bi-directional communication



Bi-directional communication

- Millions of Devices
- Multi-language, open source SDKs
- HTTPS/AMQPS/MQTTs
- Send Telemetry
- Receive Commands
- Device Management
- Device Twins
- Queries & Jobs



Enterprise scale & integration

- Billions of messages
- Scale up and down
- Declarative Message Routes
- File Upload
- WebSockets & Multiplexing
- Azure Monitor
- Azure Resource Health
- Configuration Management



End-to-End Security

- Per Device Certificates
- Per Device Enable/Disable
- TLS Security
- X.509 Support
- IP Whitelisting/Blacklisting
- Shared Access Policies
- Firmware/Software Updates



ALCUNE CONSIDERAZIONI



“

Vendor Lock-In



“

Blended Unit Of Measures



“

Cost Estimation Testing



“

IaaS+PaaS→Better together

Home > tenants - Networking

tenants - Networking
Web App

Search (Ctrl+ /)

- Authentication / Authorization
- Managed service identity
- Backups
- Custom domains
- SSL settings
- Networking**
- Scale up (App Service plan)
- Scale out (App Service plan)
- WebJobs
- Push

VNET Integration
Not Configured

Securely access resources available in or through your Azure VNET
[Learn More](#)
[Setup](#)

Hybrid connections

Securely access applications in private networks
[Learn More](#)
[Configure your hybrid connection endpoints](#)

Azure CDN

Secure, reliable content delivery with broad global reach and rich feature set
[Learn More](#)
[Configure Azure CDN for your app](#)

I1 Isolated	I2 Isolated	I3 Isolated
1 Core	2 Core	4 Core
3.5 GB RAM	7 GB RAM	14 GB RAM
SSD and faster CPU Dv2 series workers	SSD and faster CPU Dv2 series workers	SSD and faster CPU Dv2 series workers
App Service Environm... Single tenant system	App Service Environm... Single tenant system	App Service Environm... Single tenant system
Runs in your vNET Network isolated	Runs in your vNET Network isolated	Runs in your vNET Network isolated
Private app access Using an ILB ASE	Private app access Using an ILB ASE	Private app access Using an ILB ASE
Used across ASE 1 TB Storage	Used across ASE 1 TB Storage	Used across ASE 1 TB Storage
Up to 100 instance(s) More upon request	Up to 100 instance(s) More upon request	Up to 100 instance(s) More upon request
250,97 EUR/MONTH (PER INSTANCE)	501,93 EUR/MONTH (PER INSTANCE)	1.003,86 EUR/MONTH (PER INSTANCE)

Grazie

Domande?



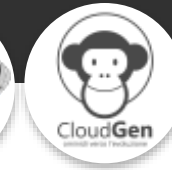
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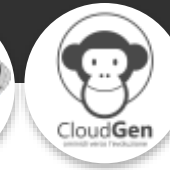


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Gold Sponsor



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