2018 Global Azure BOOTCAMP

ARGOMENTO

PaaS Opportunities in Azure

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Eccomi!

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Lift & Shift

Lift&Shift

Cloud for Lift&Shift
Don’t rewrite

60%

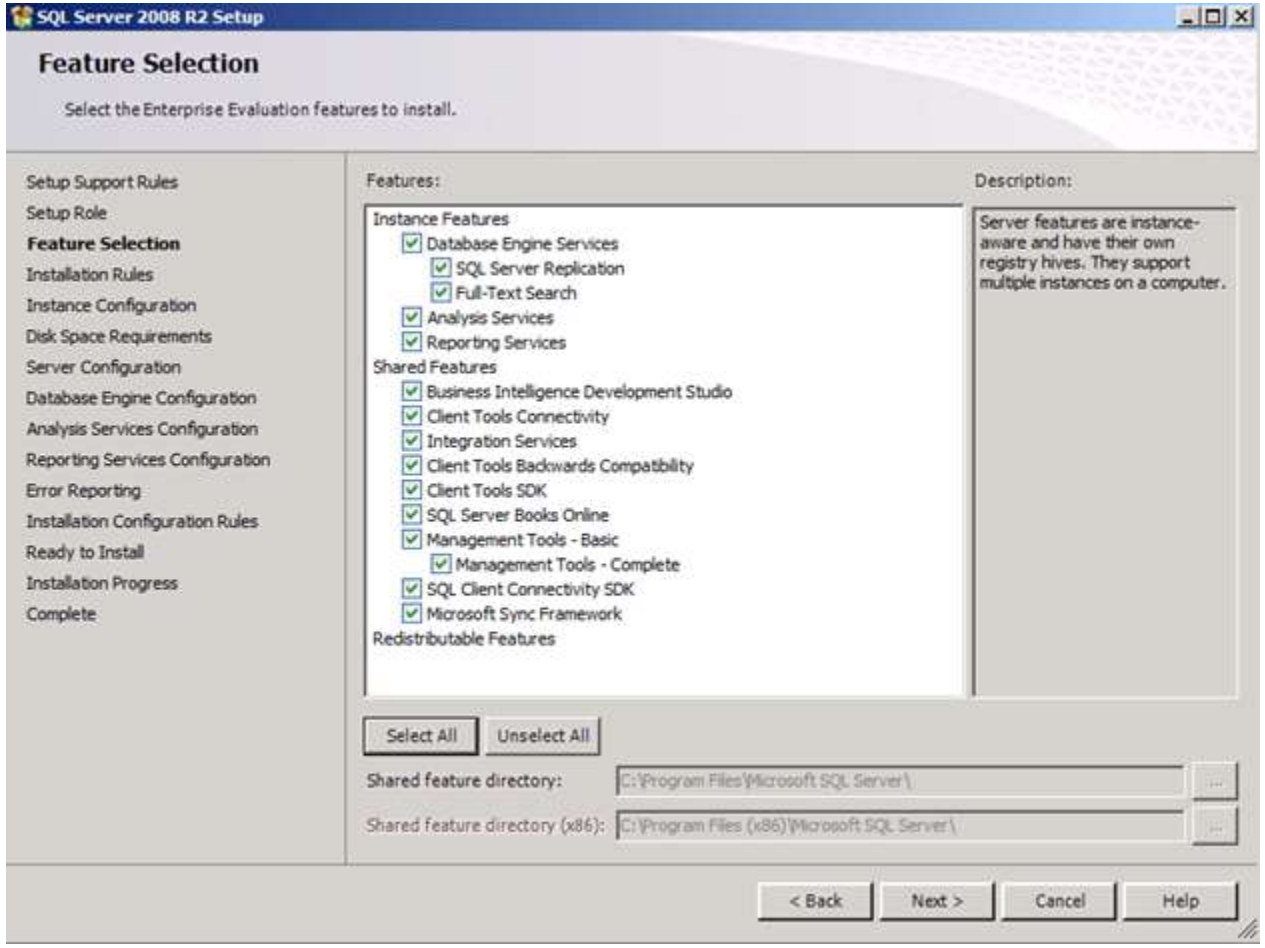
PaaS if possible
IaaS if (really really really) needed

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

“FALSO!

Lavorare con Azure significa essere
DevOps, un po’ Dev e un po’ Ops

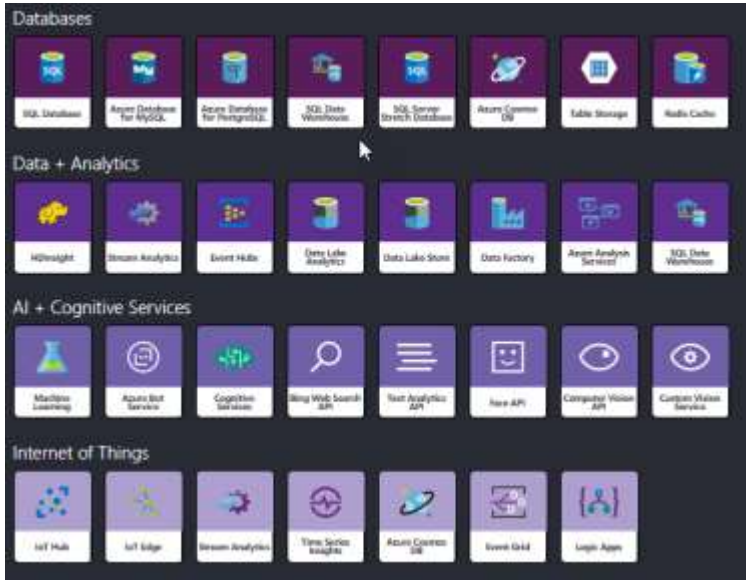
«Next ➔ Next ➔ Next»



I Dev sono più consapevoli delle Ops

Tanti tanti servizi…

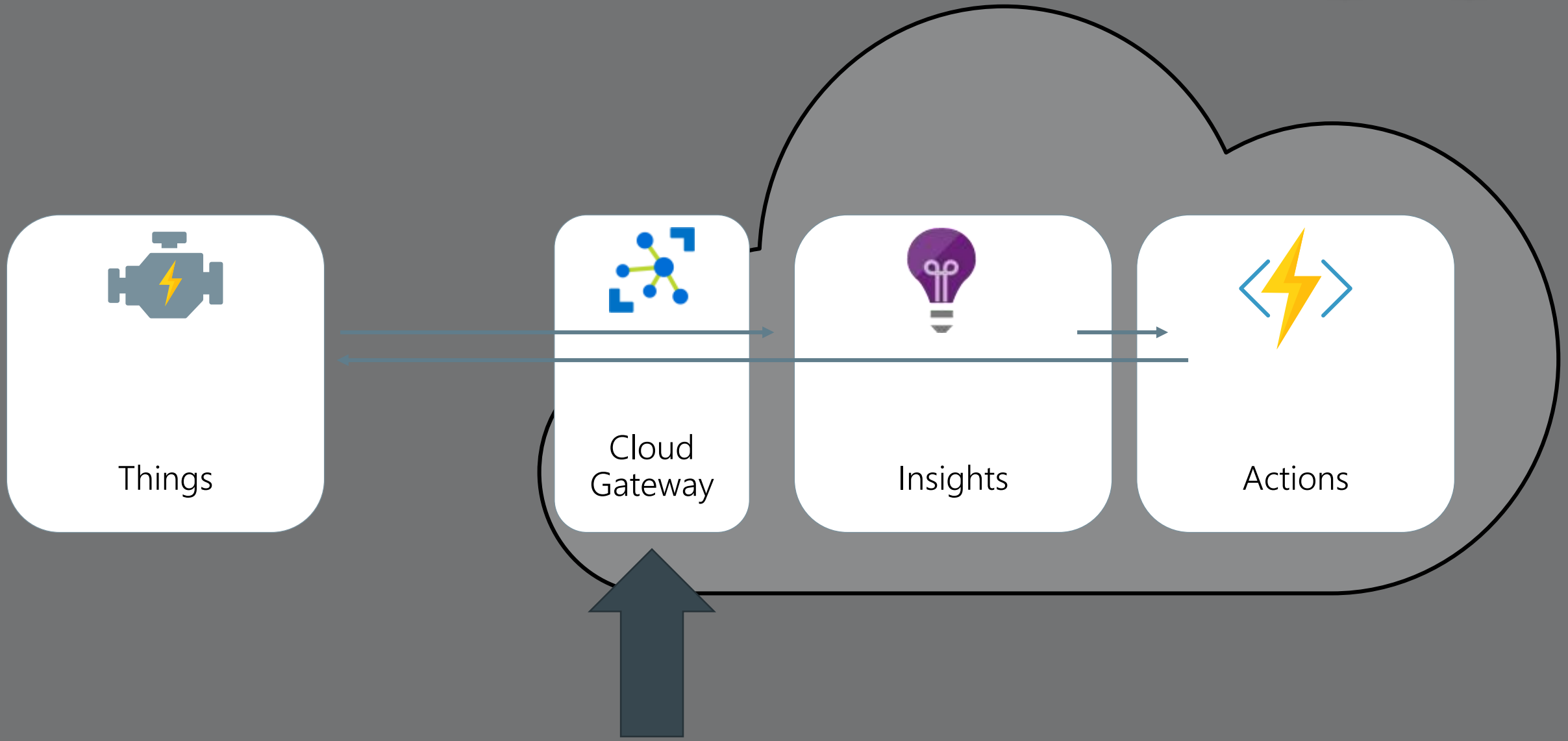
http://azureinteractives.azurewebsites.net/Azure101Cards/



Make or Buy?

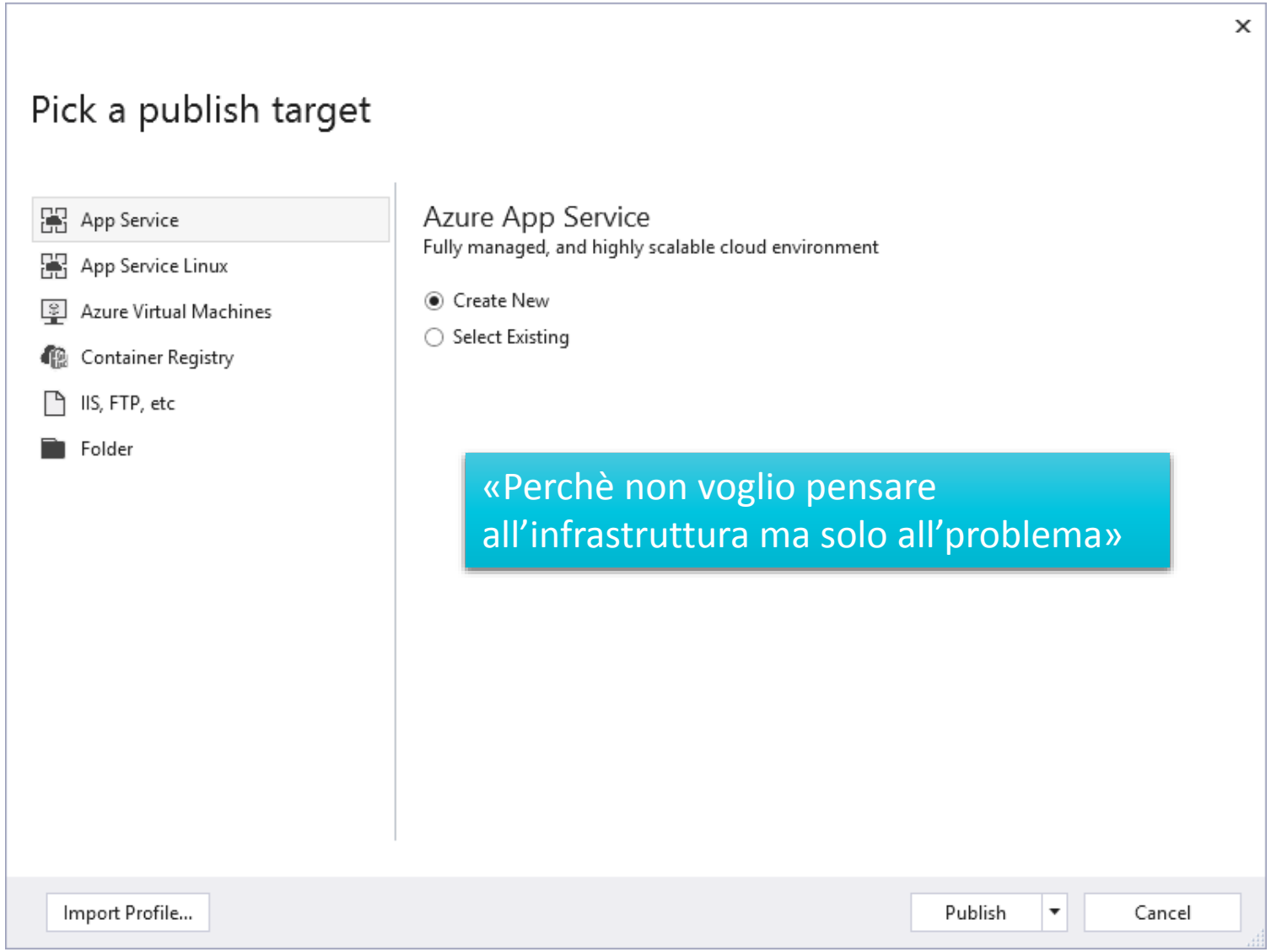
(Level of) PaaS

The IoT Scenario/Pattern

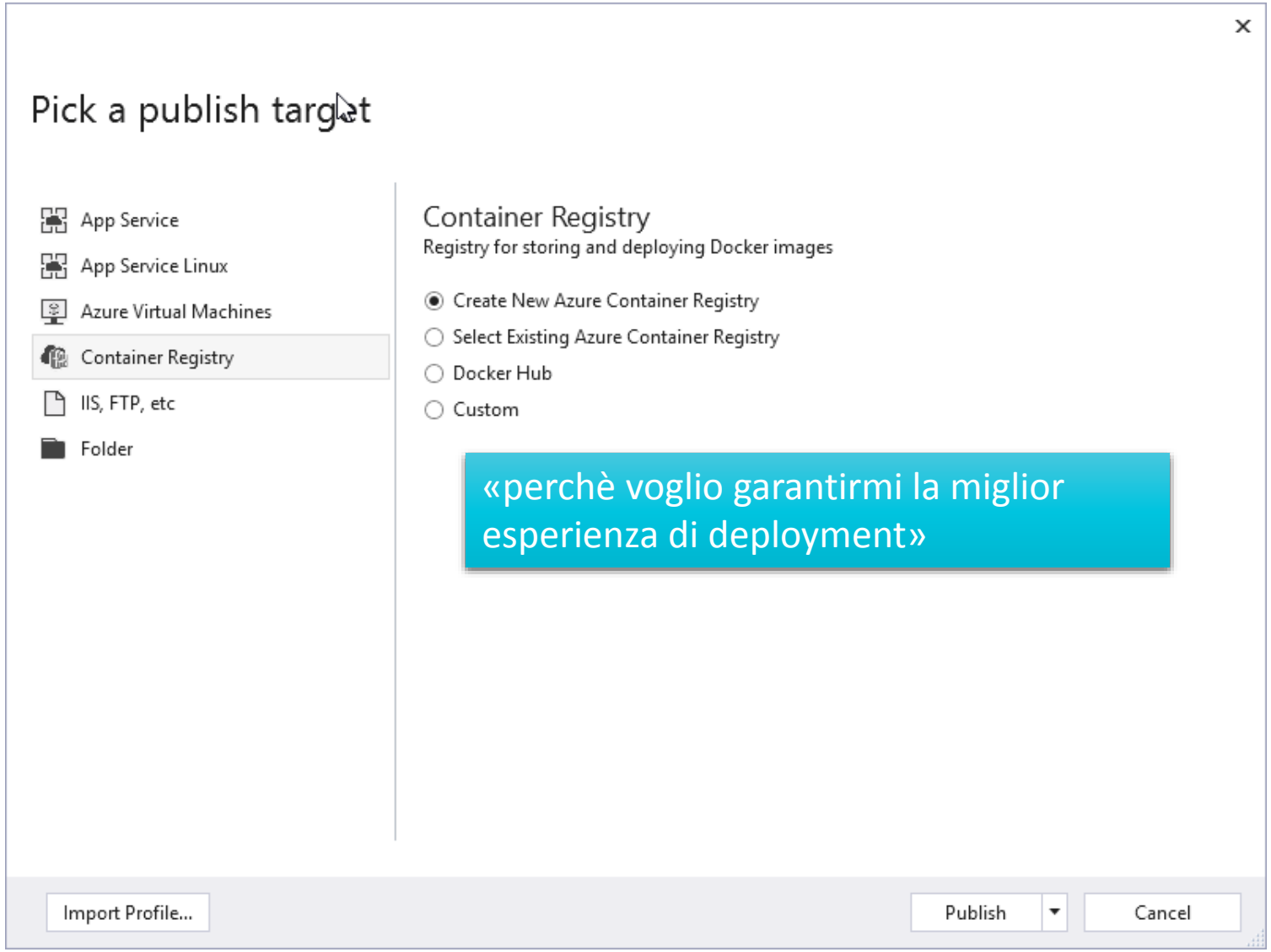


Acquisire dati telemetrici
=
Cloud Gateway

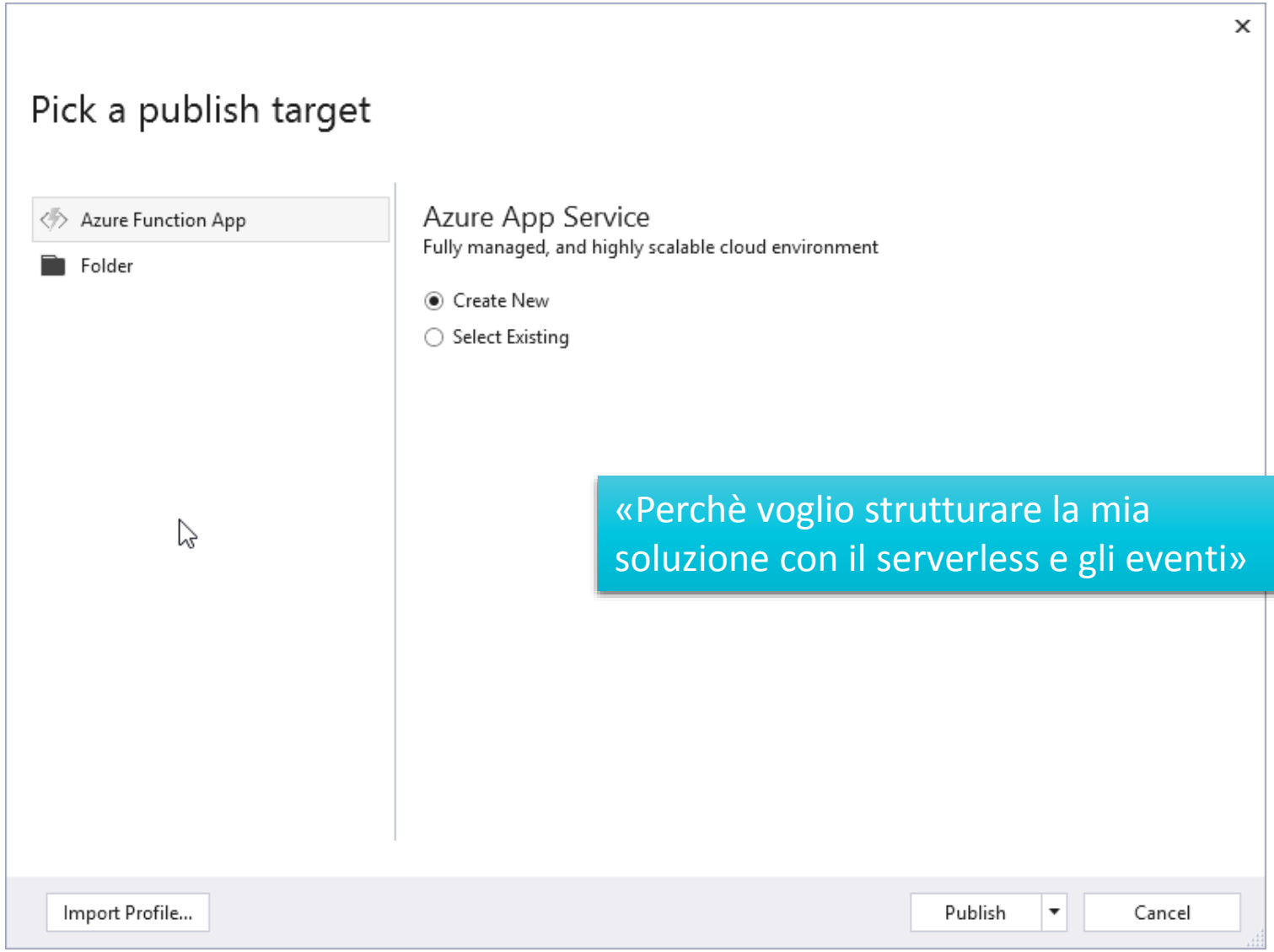
Perchè vorrei pubblicare su un App Service su Windows o su Linux



Perchè vorrei pubblicare in un Container?



Perchè vorrei pubblicare su Function?



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

L’ho fatto!

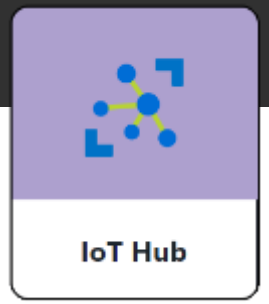
Two level of complexity:

- 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

Azure IoT Hub

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 Polices
Firmware/Software Updates

ALCUNE CONSIDERAZIONI

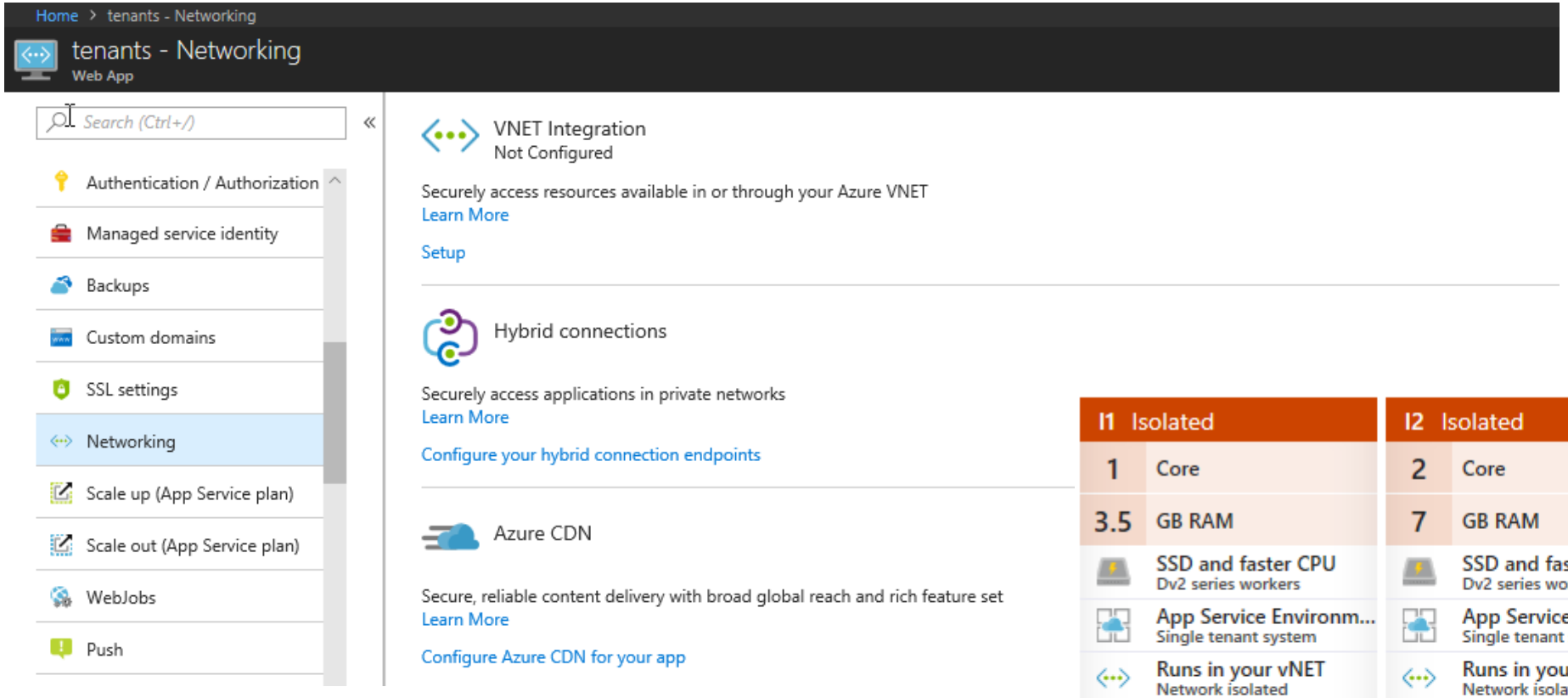
Vendor Lock-In

Blended Unit Of Measures

Cost Estimation Testing

IaaS + PaaS → Better together

PaaS+IaaS



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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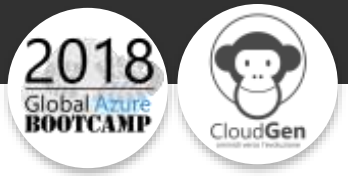

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