

# Module Objectives

- Overview of PubSub+ Event **Brokers:** 
  - Cloud (as a Service)
  - Software
  - Appliance



# Three Deployment Options = One Platform

Software As a Service Hardware







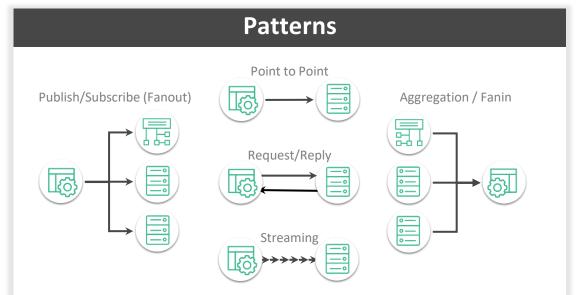
Deploy in cloud or on-prem

Easy startup and elastic capacity

Massive capacity with low TCO

### **Seamless Interoperability and Identical Support for:**





### **Features**

- Dynamic Message Routing
- Message Replay
- Slow Consumer Handling
- WAN Optimization
- HA and Security

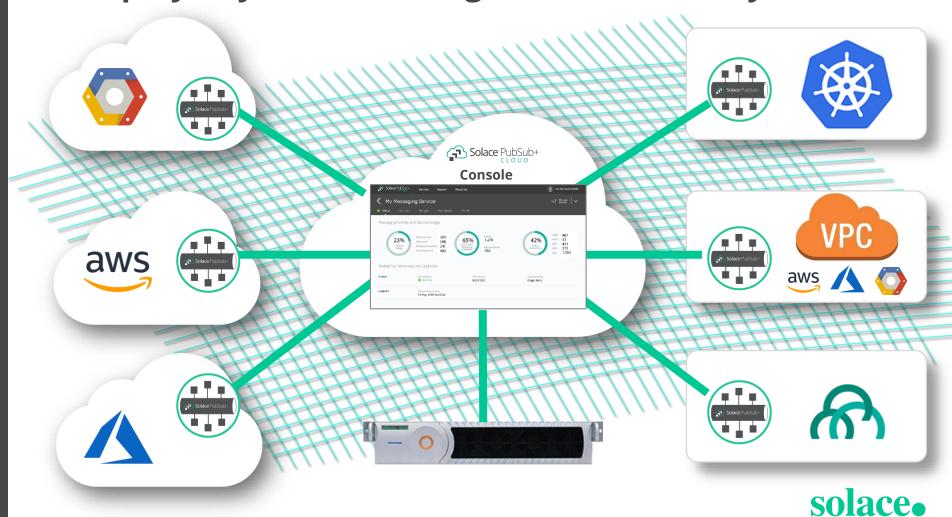


## PubSub+ Event Broker: Cloud

## Cloud manage your Solace estate through one console:

- Lifecycle management
- Provisioning
- Monitor
- Upgrades
- Governance

## Deploy anywhere, manage in the cloud anywhere





## PubSub+ Event Broker: Software

# World's best event broker, easily deployable into any environment





























### Different packaging options:

- Machine Images tuned for different environments
- Docker Containers
- Cloud Quick Start scripts

## **Cloud Quick Start**

- AWS, Azure, GCP, GKE, PKS, Kubernetes
- Available on Solace Github: https://github.com/SolaceProducts/

### **Simple Elastic Scaling**

- Horizontally with automated provisioning
- Vertically via addition of cores and RAM



# PubSub+ Software Editions

	Standard Edition Free!	Enterprise Edition  Free 90-day Evaluation, then licensed per core	
Messaging Functionality	Full	Full	
Max Message Rate	10,000 messages/second	90,000-1.5M messages/second	
Simultaneous Connections	1,000 connections	200,000 connections	
Transport Layer Security (TLS)	✓	✓	
AMQP, JMS, MQTT, REST, WebSockets	✓	✓	
High Availability	✓	✓	
Replication for Disaster Recovery	✓	<b>√</b>	
Support	\$	Included	



# PubSub+ Event Broker: Appliance

# Only purpose-built messaging middleware hardware appliance





## Purpose-built from chips to chassis

- FPGA and Network Processor-based "blades" for each messaging function
- Hardware datapath for performance, predictability, robustness

## Turnkey deployment

- "Rack and run" installation
- Performance as promised
   with no need to integrate or tune

### Simple Elastic Scaling

- Horizontal with automatic discovery
- Vertical with higher performance cards



# Solace PubSub+ Appliance Models

	3530		3560	
Network Connectivity	4x1GE		2x10GE, 4x10GE, 8x10GE	
Enterprise/JMS Connections	6,000		30,000	
IoT / Web Messaging Connections	6,000		200,000	
Non-Persistent Latency	28 microseconds		18 microseconds	
	Point-to-Point	Fan-out	Point-to-Point	Fan-out
Non-Persistent Msg Rate (msg/sec)	4.6M	4.6M	9M	28M
Non-Persistent Throughput	4 Gbps	4 Gbps	80 Gbps	80 Gbps
Persistent Msg Rate (msg/sec)	75K	460K	645K	5.5M
Persistent Throughput	1 Gbps	4 Gbps	9.5 Gbps	80 Gbps



# Hands-on Activity

- Create a developer service using **PubSub+ Cloud**
- Deploy Software Event Broker on **Docker**



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# Hands-on Activity

 Deploy Software Event Broker on **Docker** 

