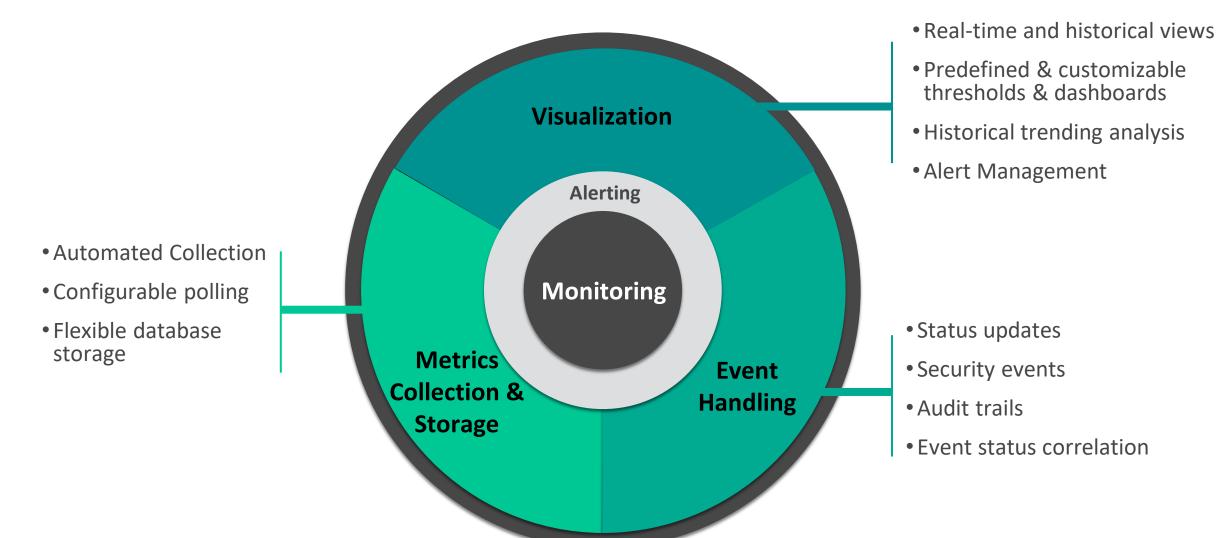


Module Objectives

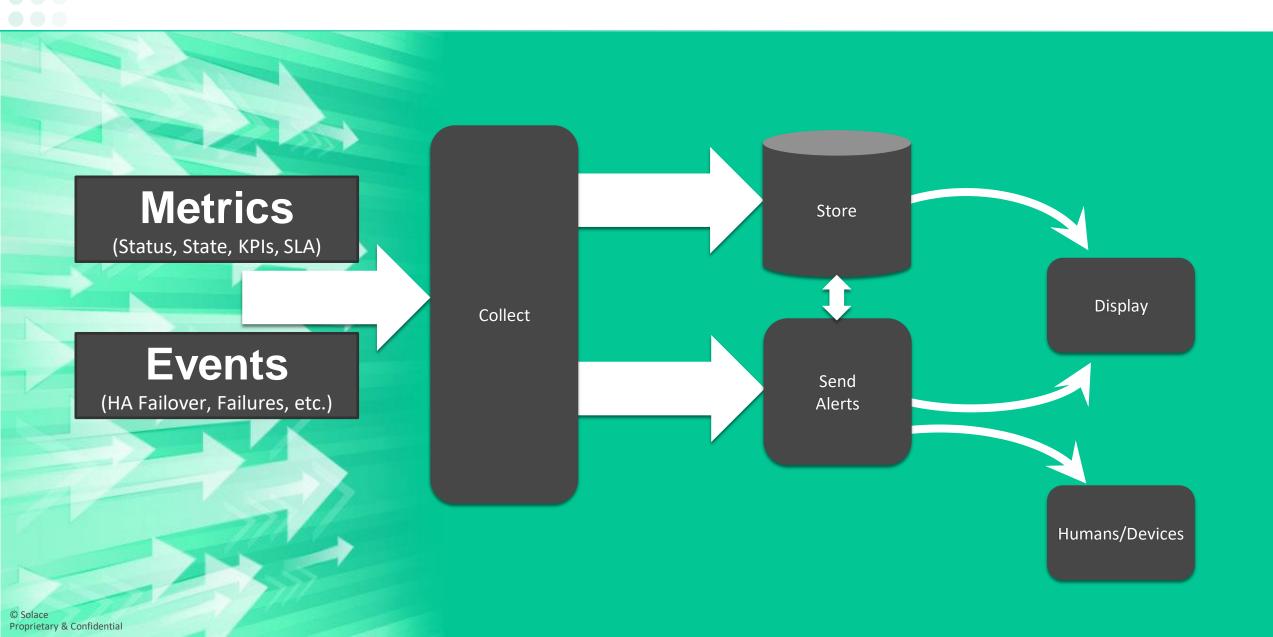
- Introduce the monitoring capabilities
- Explore the basic statistics and metrics available for monitoring



Key Monitoring Requirements



Key Functions of Monitoring:



Ways to Monitor PubSub+ Event Brokers



PubSub+ Monitor



PubSub+ Insights (coming soon)



Syslog Events

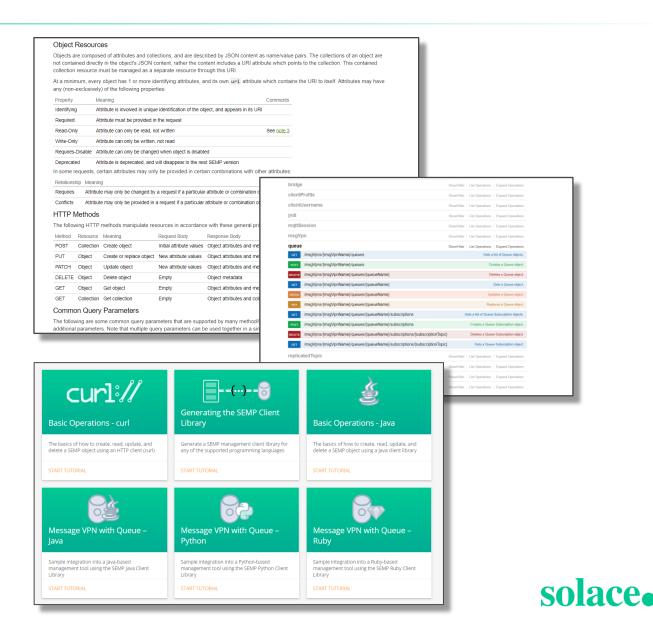


SEMP



SEMP for Monitoring

- SEMP can also be used for collecting metrics for monitoring purposes
- For ex. you can monitor queues and client connections
- A separate RESTful API for monitoring available:
 - https://docs.solace.com/API-Developer-Online-Ref-Documentation/swaggerui/monitor/index.html



Syslog Events

- PubSub+ Event Brokers generates syslog messages to record the occurrence of events happening on broker, such as
 - Routine operations
 - Failure and error conditions, such as a disk failure
 - Emergency or critical conditions
- Logged to local files
 - logs can be viewed in the local file system using CLI
- Optionally can be pushed to a Syslog server over UDP

SolOS-TR Message Bus Management Syslog Events Table of Contents SYSTEM SYSTEM VPN CLIENT USERNAME CLIENT AD CLIENT CLIENT



Example Log Message

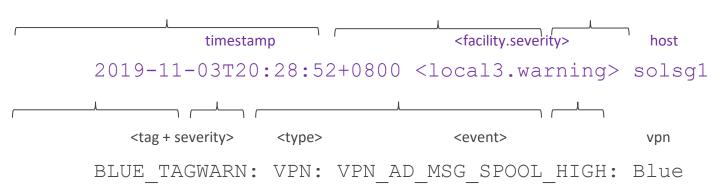
Syslog message:

```
2015-11-03T20:28:52+0800 <local3.warning> solsg1 BLUE_TAGWARN: VPN:

VPN_AD_MSG_SPOOL_HIGH: Blue - Message VPN (165) Queue testQueue message spool threshold

819 kB (80%) reached: 878 kB
```

- Header
- Message Priority
- Message Text

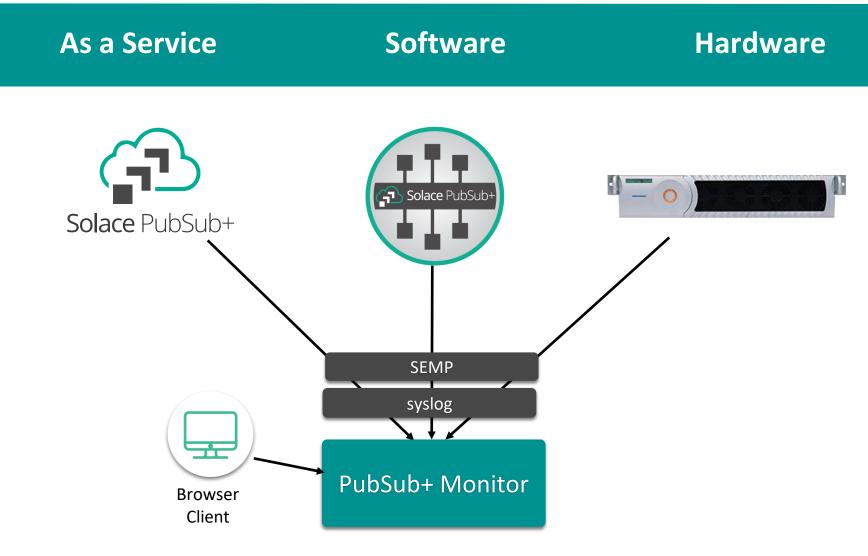


Message VPN (165) Queue testQueue message spool threshold 819 kB (80%) reached: 878 kB



PubSub+ Monitor: What is it?

- Standalone application
- Client Server Architecture
- Server deployed on VM
- On-Prem or in Cloud
- Browser based client
- Agentless
- Connects to brokers'
 SEMP interface





PubSub+ Monitor: 3 à la carte modules available

PubSub+ Monitor

Unified proactive monitoring solution

Collector Module

- Simplifies data retrieval
- Polls brokers using SEMP
- Retrieves broker state and statistical information
- Sends Metrics data to customer's InfluxDB or publishes it to a PubSub+ Event Broker to be consumed by other databases or applications

Metrics Module

- Includes Collection functionality
- Enables storage
- Adds alerting
- Adds visualization
- Provides real-time visibility with pre-configured thresholds and dashboards
- Avoids purchasing separate visualization and alerting tools

Events Module

- Receives event data from broker as event happens
- Sends proactive alerts of system, VPN, client events
- Provides real-time visibility with pre-configured thresholds and dashboards
- Helps secure network
- Complements customer's own metrics monitoring solution

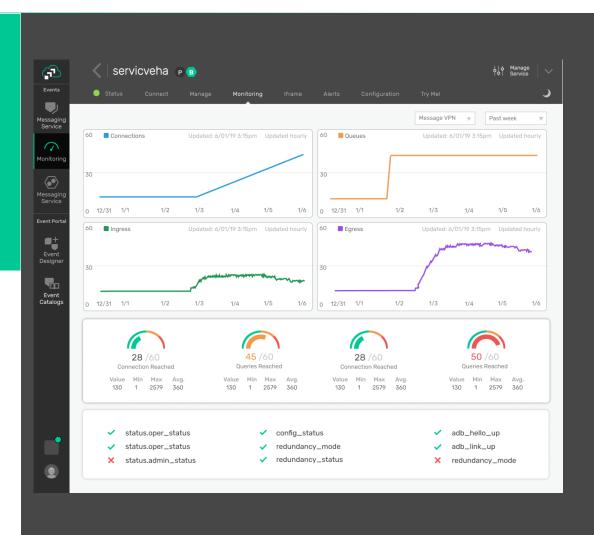


PubSub+ Insights (coming soon) – What is it?

Centralized, out-of-the-box, proactive monitoring for PubSub+ Event Broker: Cloud Services

- Metrics collection
- Event handling
- Operational Dashboards
- Capacity Planning

- Application Insights
- Alerting
- Simple setup
- Real-time and historical





Getting Support



PubSub+ Support Plans

| | Community | Silver | Platinum |
|---|--|--|---|
| Support Hours | n/a | Business Hours | 24/7/365 |
| Response Time Severity 1 Severity 2 Severity 3 Severity 4 | n/a | 8 Business Hours for All | 30 Minutes 2 Hours 8 Business Hours 8 Business Hours |
| Designated Support Contacts | 0 | 4 (can negotiate more) | Unlimited |
| Support Channel | Community forums | Community forums, Secure web login | Community forums, Secure web login, Phone, Email |
| Applicability | Software: Standard edition Cloud: Free plan | Software: Standard edition Cloud: Starter plans | Appliances Software: Enterprise edition Cloud: enterprise plans |

^{*} Appliance customers can purchase additional support for physical assistance with hardware.



Raising a Support Ticket

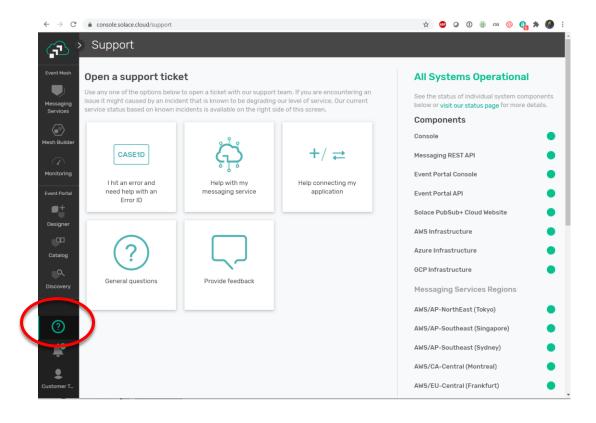
- For severity 2, 3, & 4 issues and enhancement requests
 - Raise a support ticket by email
 - Log into the ticketing system and raise a support ticket
- For severity 1 issues or critical production issues
 - Raise a support ticket by phone
- https://solace.com/support

- Email: <u>support@solace.com</u>
- Ticketing System: https://rt.solace.com/rt
- Phone
 - International: +1-613-270-8404
 - **USA/Canada**: 1-866-765-2231
 - India: 0008001009483
 - United Kingdom: +44 800 014 8187
 - **Singapore**: +65 6221 3660



Support in PubSub+ Cloud Console

- You can open a support ticket from within PubSub+ Cloud Console
- Recommended way to report issues for your PubSub+ Cloud messaging services and Event Portal





Gathering Diagnostic Files

- For Docker Event Broker containers:
 - gather-diagnostics-host utility from the Docker host
 - Refer to the Docker docs here
- For Cloud/Machine Images based Software Event Brokers:
 - solacectl gather-diagnostics utility from the Linux Host shell as root
 - Refer to the Cloud/MI docs here
- For Appliances
 - gather-diagnostics command from the Solace CLI

Provide diagnostics files to Solace Support

- Upload to https://filedrop.solace.com
- Raise a support ticket along with the file name uploaded
- Additionally provide any Solace API log files when troubleshooting application issues

```
↑ dishant — appuser@1c964a194014:/usr/sw — -zsh — 92×24
1c964a194014(admin)# gather-diagnostics days-of-history 3
Running in VMR mode
Starting to copy files...
Finished copying files...
Starting to run diagnostic commands...
  Running command: ipcs -m
  Running command: ipcs -1
  Running command: ls -Rrtl /usr/sw/jail
  Running command: 1s -ld /usr/sw
  Running command: ps -eLo psr,ppid,pid,tid,priority,nice,vsize,rss,%cpu,%mem,start,time,cmd
  Running command: get-eval-license-status -a
  Running command: wholock
  Running command: consul info -http-addr=unix:///var/run/solace/consul
  Running command: consul keyring -list -http-addr=unix:///var/run/solace/consul
  Running command: parseprodkey
 Finished running diagnostic commands...
Creating tarball...
Finished creating tarball...
```



Hands-on Activity

- Exploring Syslog events from the **CLI**
- Gathering diagnostics





Hands-on Activity

Exploring Syslog Log Files





Hands-on Activity

Gathering diagnostics

