OVERVIEW

This overview covers the *Custom Settings* (Core Package) which control instrumentation. One can override the custom settings (User or Profile) at runtime. Some settings are turned on for analysis.

Caching can play an important part of your Transactional Lifecycle of which *Force Instrumenter* attempts to utilize.

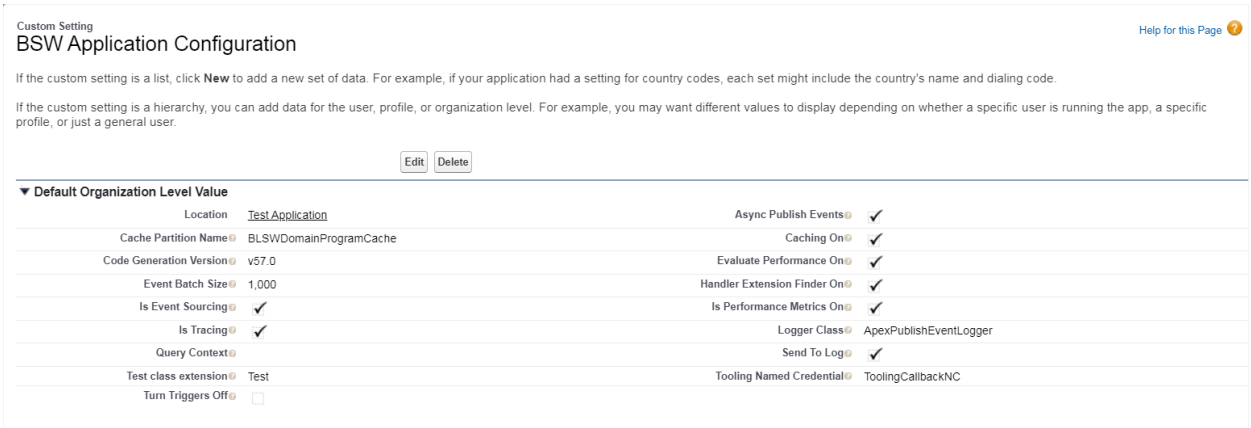
CUSTOM SETTINGS

By default, there are no custom settings defined for a specific Profile or User. We do this intentionally because every client is different. Initially, it is recommended that the following settings are used when you first get started.

Setting	Value	Comment	Recommended
Cache Partition Name	Set to at least 1M. If you have more space to provide then 3M	Partition used to cache values, if caching is turned on. Improves performance of Queries and Responses	Yes
Code Generation Version	v57.0	Version of Apex, if creating code in **Tooling Package**	
Event Batch Size	1000	Used for Batch Size by the Scheduler	
Is Event Sourcing	True (checked)	Used to publish execution of events (instrumentation). Allows the ability to Replay	Yes
Is Tracing	True (checked)	Turns on Logging/Tracing of information (i.e. *blsw.ApplicationTracer*); as we do NOT use system.debug()	[Only for Testing]
Query Context		Future Consideration	

Setting	Value	Comment	Recommended
Test class extensions	Test	When **Tooling Package** creates a Test Class (i.e., MyClassTest). Some clients use **_Test,** which would create **MyClass_Test)**	Yes
Turn Triggers Off	False (unchecked)	If you a bulk loading and do not want triggers associate with CQS to run.	
Async Publish Events	True (checked)	Events are published asynchronously; and later writing into the Event Source Object (blsw__Event_Source__c)	Yes
Caching On	True (checked)	Is caching used to save queries and results	Yes
Evaluate Performance On	True (checked)	Return metrics (*IResult*) back from a CQS call. Used to look at metrics immediately from a call. Generally, used for testing	[Only for Testing]
Handler Extension Finder On	True (checked)	CQRS Pattern uses Handlers to process a Command, Query or Service following the pattern of *Handler* as the extension. For example, *MyCommand*, will have a handler, *MyCommandHandler*. The system will automatically look for the handler without specifying one for a Command, Query of Service.	Yes
Is Performance Metrics On	True (checked)	If you want performance metrics when you run a Command, Query or Service, this is required. Otherwise, there are no metrics. For example, without this turned on the Graphic engine for Charts, Tiles, Realtime Plotting, will have no data to show.	Yes
Logger Class	blsw.ApexPublishEventLogger	Uses an Asynchronous Logger to publish and save log messages (see *blsw. ApplicationTracer*)	Yes
Send to Log	True (checked)	Sends to the Logger	
Tooling Named Credential	ToolingCallbackNC	Required to used **Tooling Package**. This allows saving, running and processing Unit Tests and CQS features. Please note, if you already	

Setting	Value	Comment	Recommended
		have a Name Credential with access to your (*Sandbox* | *Scratch*) Org, ten use that one. **This is NOT to be used in Production!**	



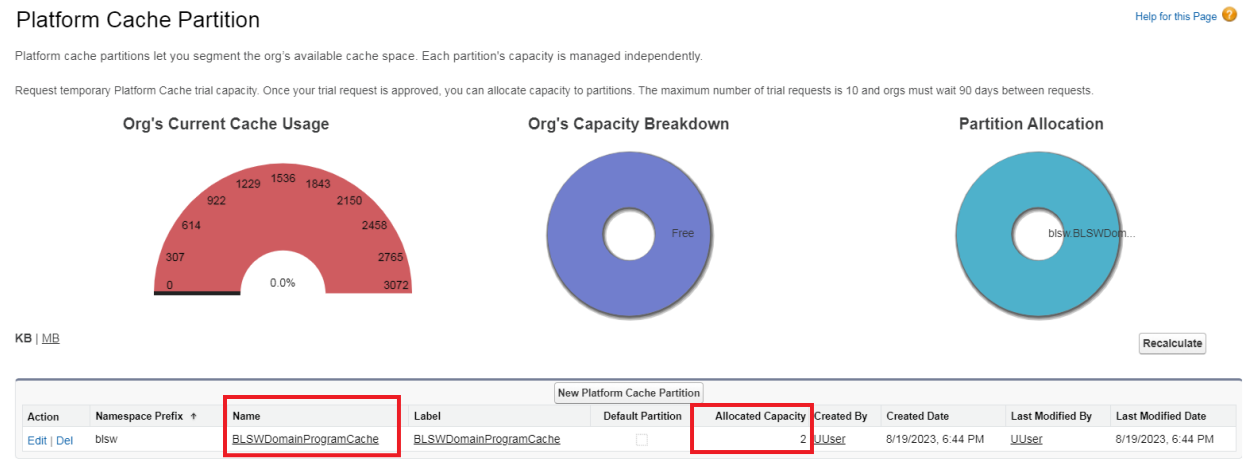
COMMENTARY

Most of the Custom Setting can be turned off once you have validated performance and overall metrics. Force-Instrumenter was designed to be performant, however, capturing metrics and publishing events provide added overhead. It is recommended that you use these options sparingly in Production. Only turn on when you want to take a snapshot or want to look at Realtime metrics.

CACHE SETTING

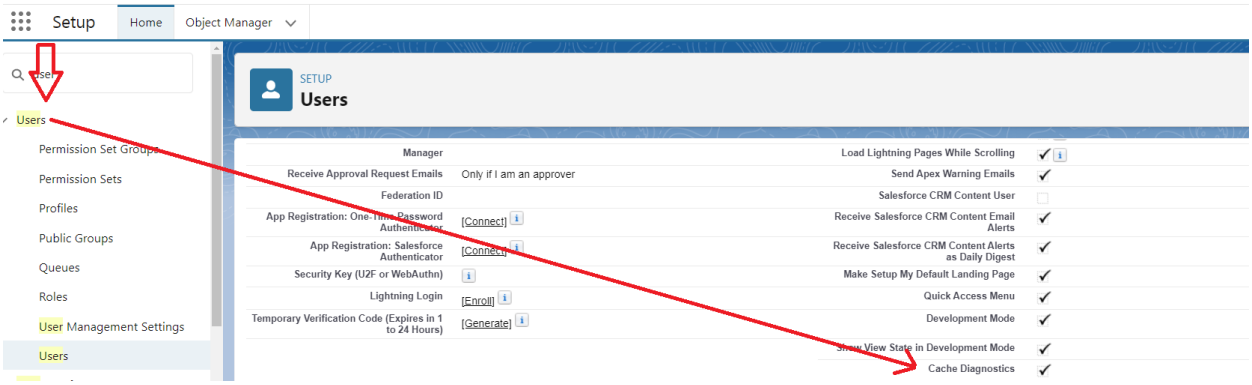
Caching is a critical component to improve performance; though, it is not mandatory. *Force Instrumenter* Repository classes and DB Manager will use cache when available. This helps avoid common requests.

Force Instrumenter uses a cache partition, `BLSWDomainProgramCache`. This partition reads/writes to the Org Cache (not session). The amount of cache varies from client to client. We recommend a setting of 2M. During development and testing observe the usage of cache (see **Turn of Cache Diagnostics of Test User**).



TURN OF CACHE DIAGNOSTICS OF TEST USER

Go to Setup->Users-><*Test-User*> and turn on *Cache Diagnostics.*



After which, you can go into Platform Cache of *Force Instrumenter* and look at Cache Diagnostics

SETUP

Platform Cache

Details

Namespace Prefix	blsw
Label	BLSWDomainProgramCache
Name	BLSWDomainProgramCache
Default Partition	
Description	

Capacity (MB)

Session Cache Allocation

Organization	0
Provider Free	0
Total	**0**
Diagnostics	

Org Cache Allocation

Organization	2
Provider Free	0
Total	**2**
Diagnostics	

Select to view Cache Diagnostics

Total Allocation

Organization	2
Provider Free	0
Total	**2**