

Tungsten Replicator Master Class

Intermediate: Working with OLTP Targets

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Topics

In this short course, we will

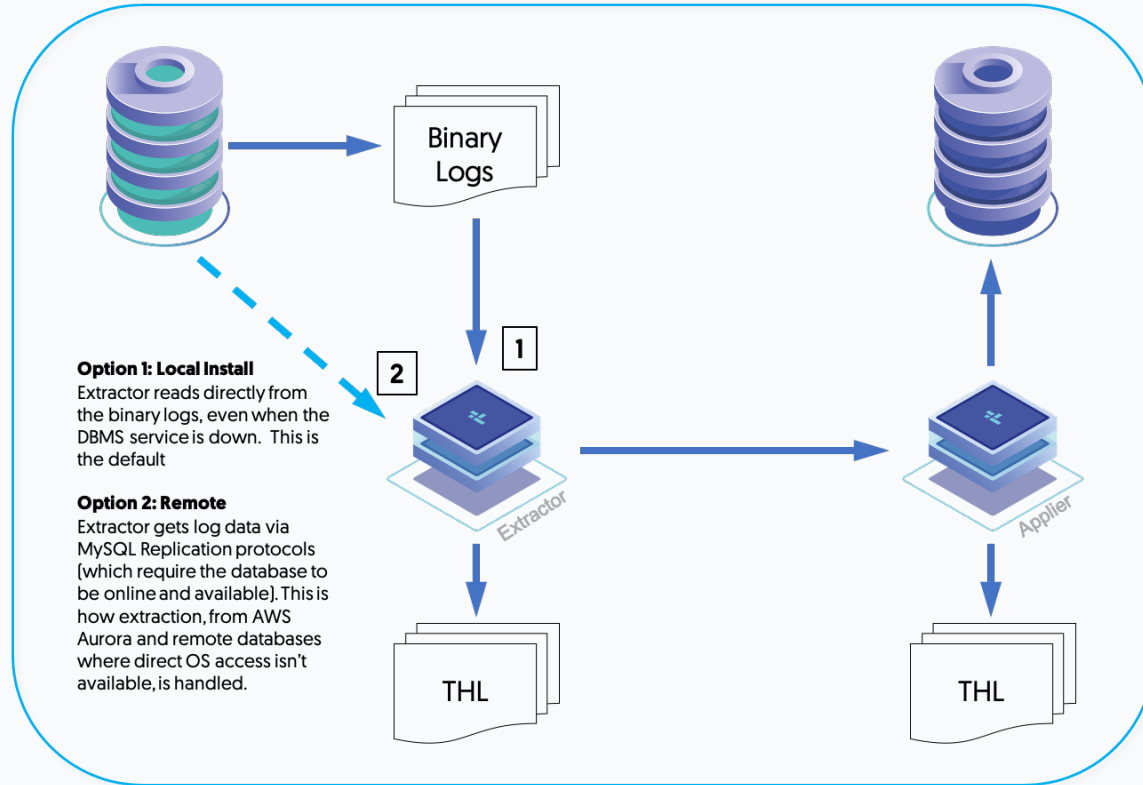
- Review replicator flow
- Explore Oracle and Postgres specific pre-requisites
- Review configurations
- Postgres Demo



Replicator Flow



Tungsten Replicator for JDBC Targets



Prerequisites

- Review online documentation
 - <https://docs.continuent.com>
 - Download the Prerequisite Checklist
- Extractor/Applier Hosts
 - OS User
 - /etc/hosts
 - sudoers
 - Ruby
 - Java
- Network
 - Review Port Requirements
- MySQL
 - my.cnf settings
 - User accounts
- Oracle & Postgres
 - User Accounts
 - Precreate Schemas/Objects
 - Ddlscan
 - Oracle jdbc Libraries
 - Clients for offboard appliers



Object Mapping

- Oracle
 - MySQL Database → Oracle User/Schema
- PostgreSQL
 - MySQL Instance → PostgreSQL Database
 - MySQL Database → PostgreSQL Schema



DDLScan

- Reverse engineers MySQL objects
- Creates target specific DDL
- Can be used for single objects or entire databases
- Must be configured prior to starting replicators

```
ddlscan -user tungsten -service alpha -template ddl-mysql-oracle.vm -db  
test >ddl.sql
```

```
ddlscan -user tungsten -service alpha -template ddl-mysql-redshift.vm -db  
test >ddl.sql
```



Extractor Config

```
[defaults]
user=tungsten
install-directory=/opt/continuent
mysql-allow-intensive-checks=true
profile-script=~/.bash_profile
disable-security-controls=true
```

```
[alpha]
master=tr-ext-2
members=tr-ext-2
replication-user=tungsten
replication-password=secret
replication-port=3306
enable-heterogeneous-service=true
```



Applier Configs

```
[defaults]
user=tungsten
install-directory=/opt/continuent
mysql-allow-intensive-checks=true
profile-script=~/.bash_profile
disable-security-controls=true
skip-validation-check=OracleVersionCheck

[alpha]
master=ext01
members=ip-10-2-3-223
datasource-type=oracle
replication-user=tungsten_alpha
replication-password=secret
replication-port=1521
datasource-oracle-service=ORCL
svc-applier-filters=dropstatementdata,casetransform[,replicate]
property=replicator.filter.casetransform.to_upper_case=true
#property=replicator.filter.replicate.ignore=mysql
```

```
[defaults]
user=tungsten
install-directory=/opt/continuent
mysql-allow-intensive-checks=true
profile-script=~/.bash_profile
disable-security-controls=true

[alpha]
master=tr-ext-2
members=tr-app-1
datasource-type=postgresql
replication-user=tungsten
replication-password=secret
replication-port=5432
svc-applier-filters=dropstatementdata
postgresql-dbname=demo
```



Demonstration



Summary

What we have learnt today

- Review replicator flow
- Explore Oracle and Postgres specific pre-requisites
- Review configurations



Next Steps

In the next session we will

- Learn how to use Tungsten Replicator with Data Warehouses
 - Redshift
 - Vertica
 - Hadoop



THANK YOU FOR LISTENING

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