

Advanced : Installing and Configuring Tungsten Replicator for Oracle Extraction



Topics

In this short course we will:

- Review Tungsten Replicator
- Review prerequisites required
- Discuss installation types (Offboard vs Onboard)
- Walkthrough an Installation (Full end to end demo)
- Recap Key Resources and Tools

Course Prerequisite Learning

- Basics: Introduction to Tungsten Replication
- Visit Continuent website or Tungsten University on YouTube to watch these recordings



Tungsten Replicator

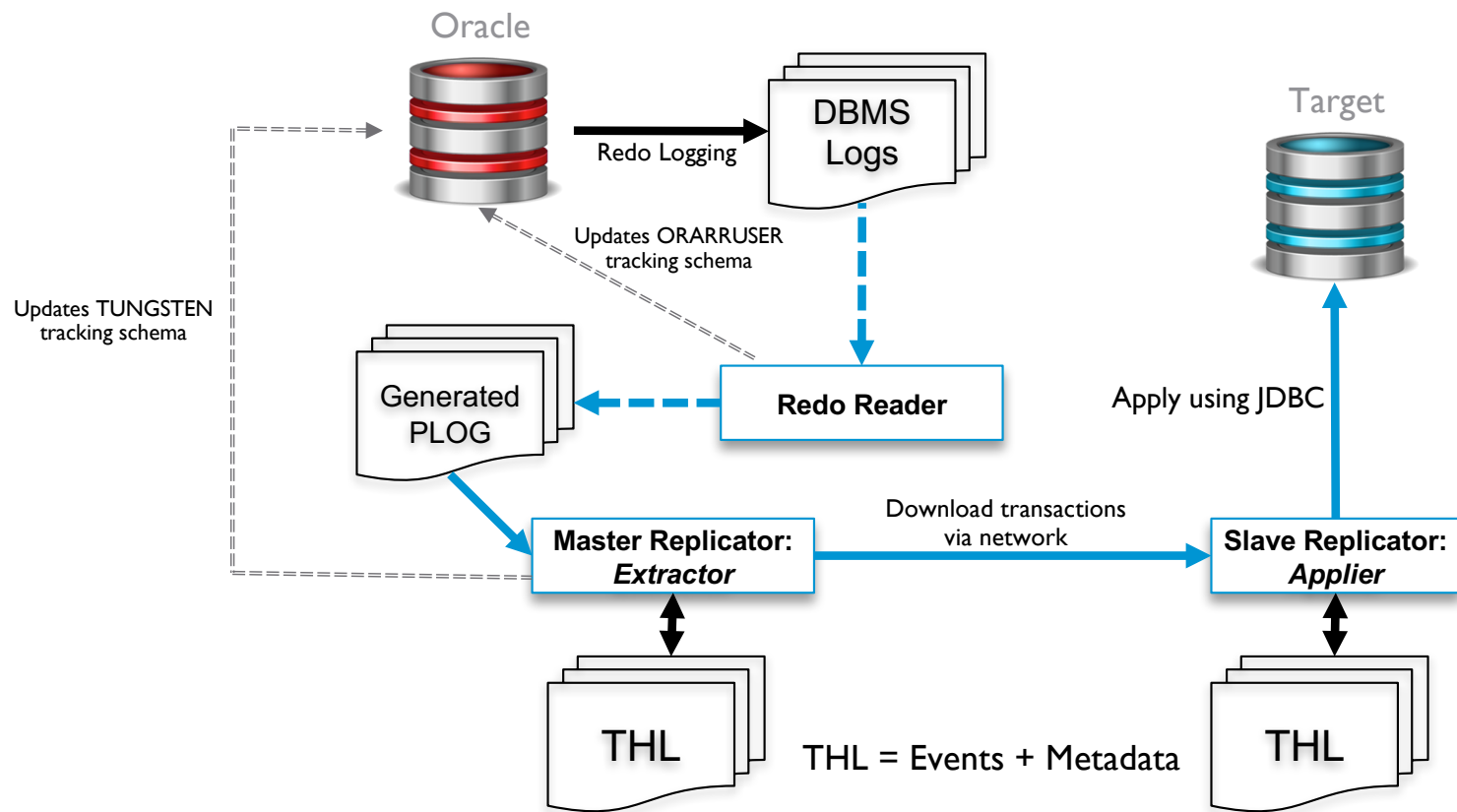


Tungsten Replicator is...

- Transactionally Consistent, Asynchronous replication
- High performance
- Flexible Extraction
 - Oracle, MySQL and RDS
- Flexible Applying
 - Oracle, MySQL, RDS, Google Cloud SQL, Hadoop, Redshift, Vertica, Elasticsearch, MongoDB, Kafka Cassandra and many more currently in development coming soon
 - JDBC
 - Native
 - Batch
- Flexible Filtering



Tungsten Replicator



Prerequisites and Installation Types

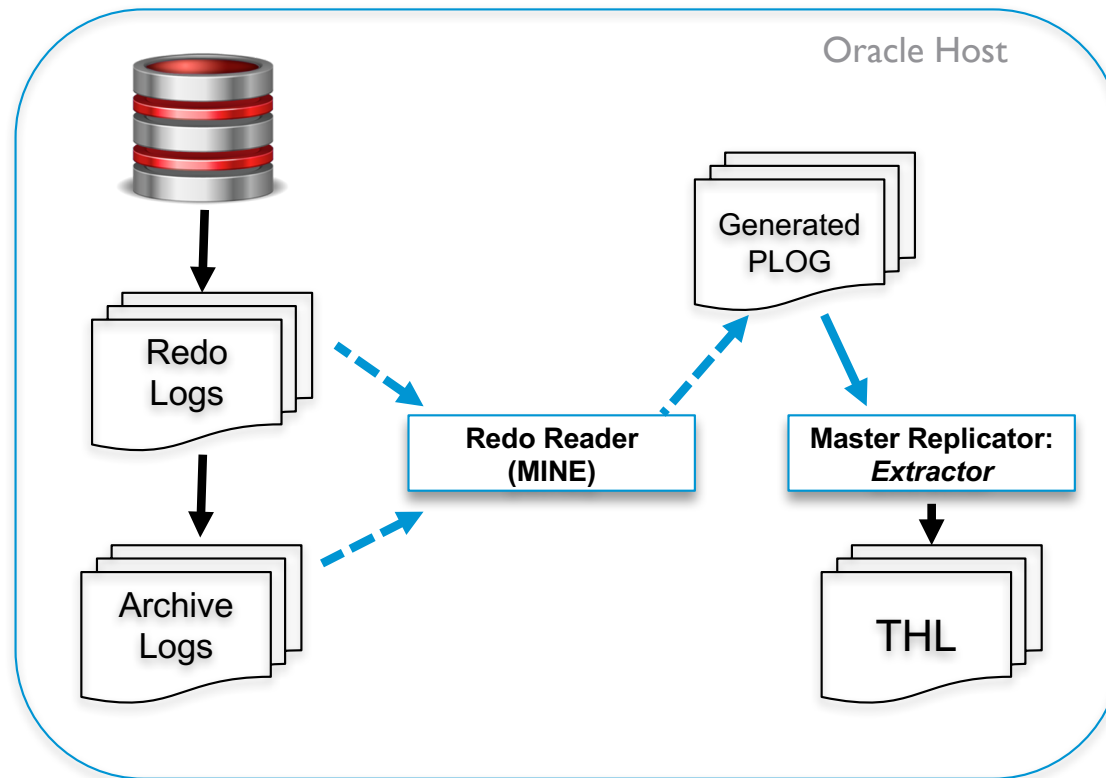


Prerequisites

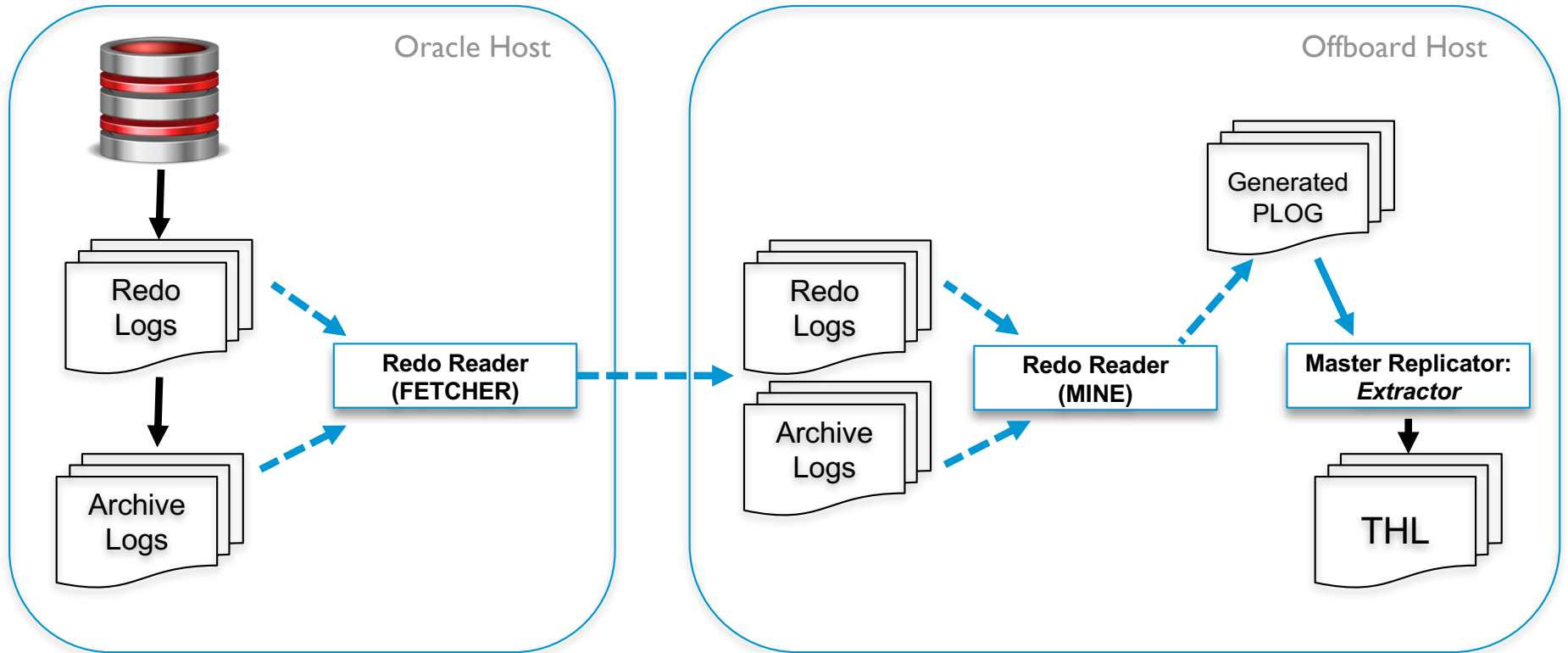
- Review docs
 - <http://docs.continuent.com/tungsten-replicator-5.2/index.html>
- Host Prerequisites
 - OS user
 - /etc/hosts
 - sudoers and ssh
 - Ruby
 - Java
 - Oracle client on Offboard host if necessary
- Network Prerequisites
 - Review port requirements
- Oracle Prerequisites
 - Archive and Supplemental Logging
 - tungsten user accounts



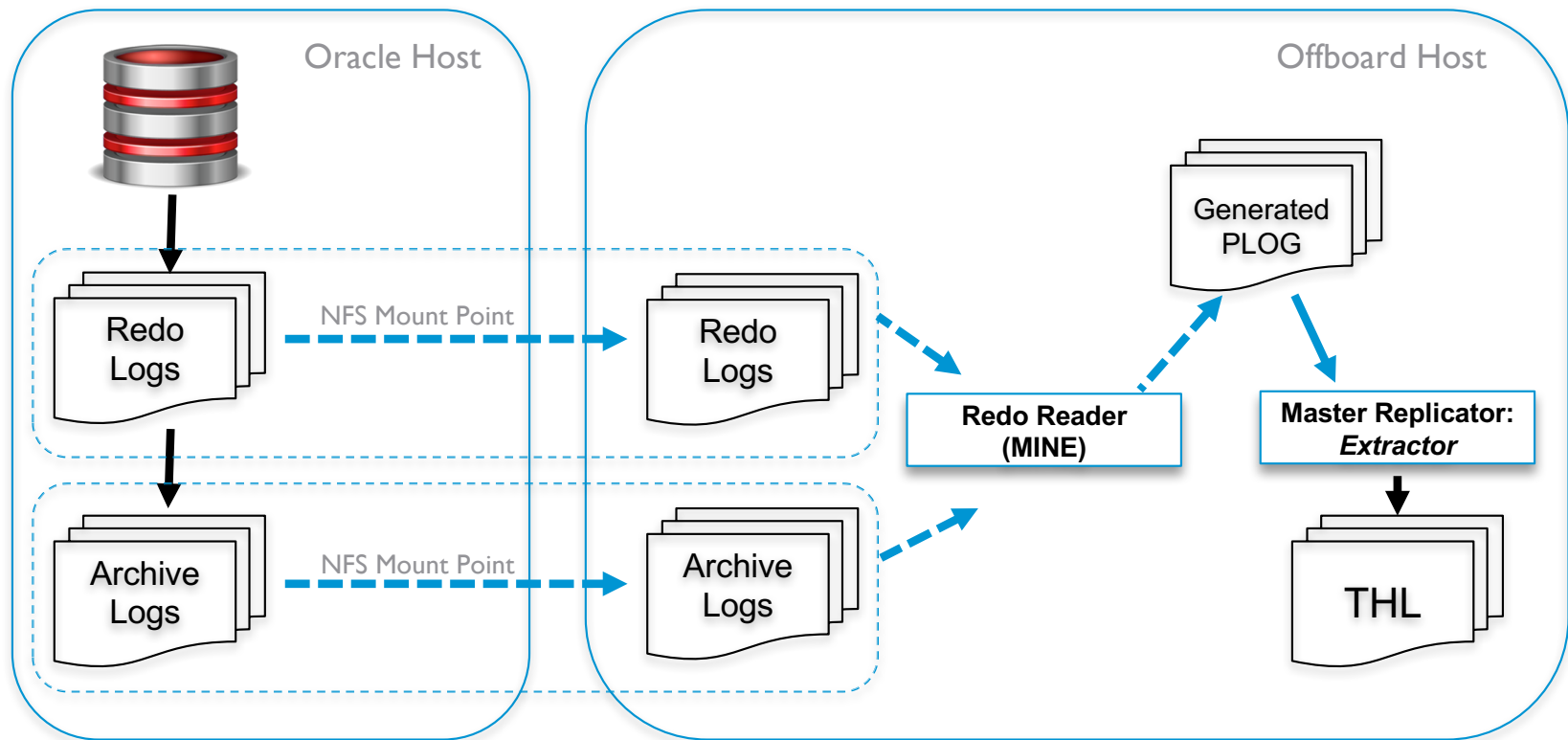
Installation Type - Onboard



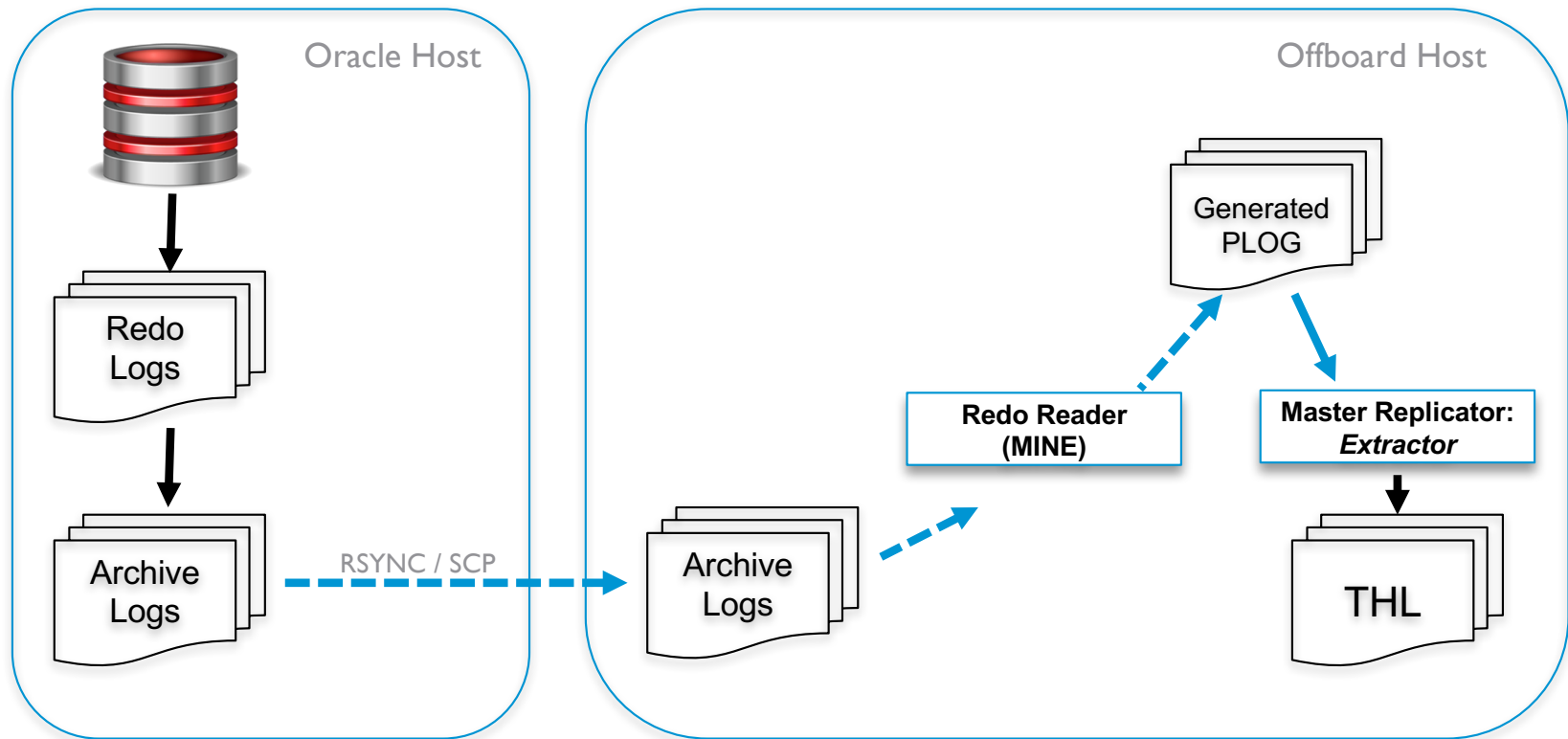
Installation Type - Offboard with FETCHER



Installation Type - Offboard with NFS



Installation Type - Offboard with Log Shipping



Installation Type - Summary

Type	Pros	Cons
Onboard	<ul style="list-style-type: none"> • Faster • Easier to configure and manage • Single install for extractor • Less disk space required 	<ul style="list-style-type: none"> • Currently, only supported for Oracle hosts running RHEL / CentOS / Oracle Linux. Further OS Support is planned but not yet available.
Offboard with Fetcher	<ul style="list-style-type: none"> • Supports more OS's • Separates extractor from DB host • Dedicated host for extraction • Offboard host could host multiple extractor services 	<ul style="list-style-type: none"> • Much more disk space required • Multiple components to manage • Additional network ports • 2 Installations for extractor
Offboard with NFS	<ul style="list-style-type: none"> • As per "Offboard with Fetcher" • Less disk space required 	<ul style="list-style-type: none"> • Potentially slower • Additional network ports • NFS requires managing
Offboard with Log Shipping	<ul style="list-style-type: none"> • As per "Offboard with Fetcher" • Only requires Archive Logs • Does not require NFS, Logs can be copied via RSYNC/SCP etc 	<ul style="list-style-type: none"> • Always "one log behind" • Enough disk space required for Archive Logs



Demo



Command Line Tools & Resources



Tools : trepctl

- “trepctl status” displays the status of the local replicator
- “trepctl status -r 3” will show status output refreshed every 3 second until CTRL+C
- “trepctl qs” provides a quick summary overview of the local replicator
- “trepctl perf” provides deeper diagnostics of the different stages in the replicators

```
$ trepctl qs
State: east Online for 21.069s, running for 45.654s
Latency: 0.837s from DB commit time on db1 into THL
          21.839s since last database commit
Sequence: 1 last applied, 0 transactions behind (0-1 stored) estimate 0.00s before synchronization
```

Tools : console

- The console is initiated using the start-console.sh script in the installation path
- It will connect to the MINE (or FETCHER) process depending on host run from
- “SHOW” will list all parameters
- “SUPPORT PACKAGE MINE|FECTHER|ALL” will generate zip file of diagnostics useful for support engineers when assisting with issues



Log Files

- The `/opt/continuent/service_logs/` directory contains both text files and symbolic links.
- Symbolic links in the `service_logs` directory point to the replicator logs:
 - `/opt/continuent/tungsten/tungsten-replicator/log/`
- MINE and FETCHER processes log files to
 - `/opt/continuent/plog/<servicename>/logs`



Next Steps

- If you are interested in knowing more or would like to try it out for yourself, please contact our sales team at sales@continuent.com
- Read the documentation at <http://docs.continuent.com/tungsten-replicator-5.2/index.html>
- Subscribe to our Tungsten University YouTube channel! <http://tinyurl.com/TungstenUni>
- Visit the events calendar on our website for upcoming Webinars and Training Sessions



For more information, contact us:

Eero Teerikorpi

Founder, CEO

eero.teerikorpi@continuent.com

+1 (408) 431-3305

Eric Stone

COO

eric.stone@continuent.com

MC Brown

VP Products

mc.brown@continuent.com

Chris Parker

Director, Professional Services, EMEA & APAC

chris.parker@continuent.com

Matthew Lang

Director, Professional Services, Americas

matthew.lang@continuent.com