



Rocket Job

Rocket Job Web Interface – Visibility, Business Priorities & Throughput.

Agenda

- What is a Job?
- Workers
- Characteristics
- Monitoring
- Management
- Deployments
- Break
- Directory Monitoring
- Read Only Jobs
- Write Jobs
- Commonly used jobs
- Access Control
- Tips & Tricks
- Written Test

Pace



What Is a Job?

- Task that runs in the background
 - No human interaction
 - On Demand
 - Scheduled
 - Monthly, Daily, etc.
 - Batch Windows
 - Off peak
 - Event Driven
 - Queued
 - Next available worker
 - Process at a future time

Why?

- Accounting
 - Billing
 - Payroll
- Reporting
- Data Export
- Data Correction
- File Processing
- Maximize Throughput
 - Maximize Infrastructure Investment
- Analytics
 - Distribution of account number lengths

Workers

- Work on Jobs / Slices
- Pull Model
- Scale horizontally





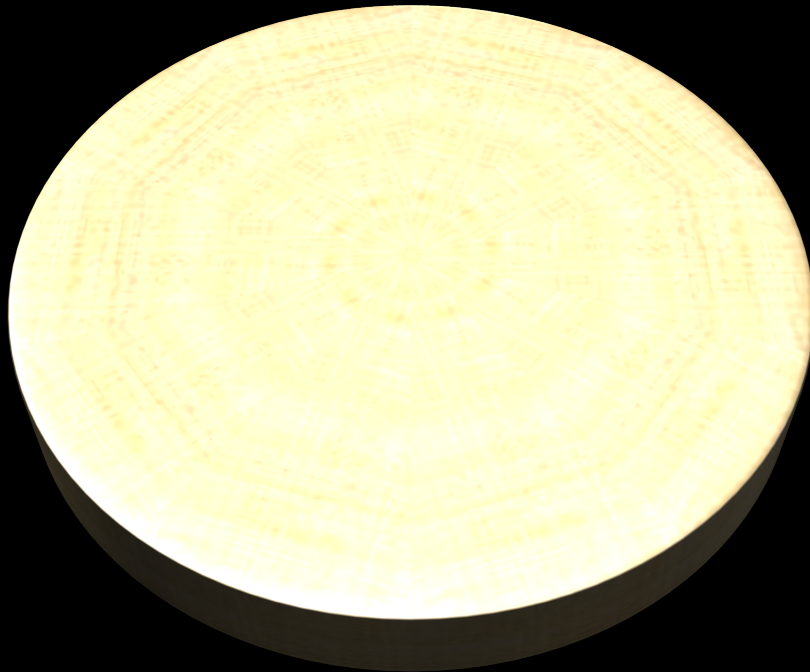
Job Characteristics

- Class
 - Many kinds of jobs
 - Many instances
 - Processed by workers
- Regular Job
 - One worker per job
- Batch Job
 - Many workers per job
 - Concurrent Processing
- Shared Processing Environment
 - Business Priority Driven
 - Pull Model

Regular Job

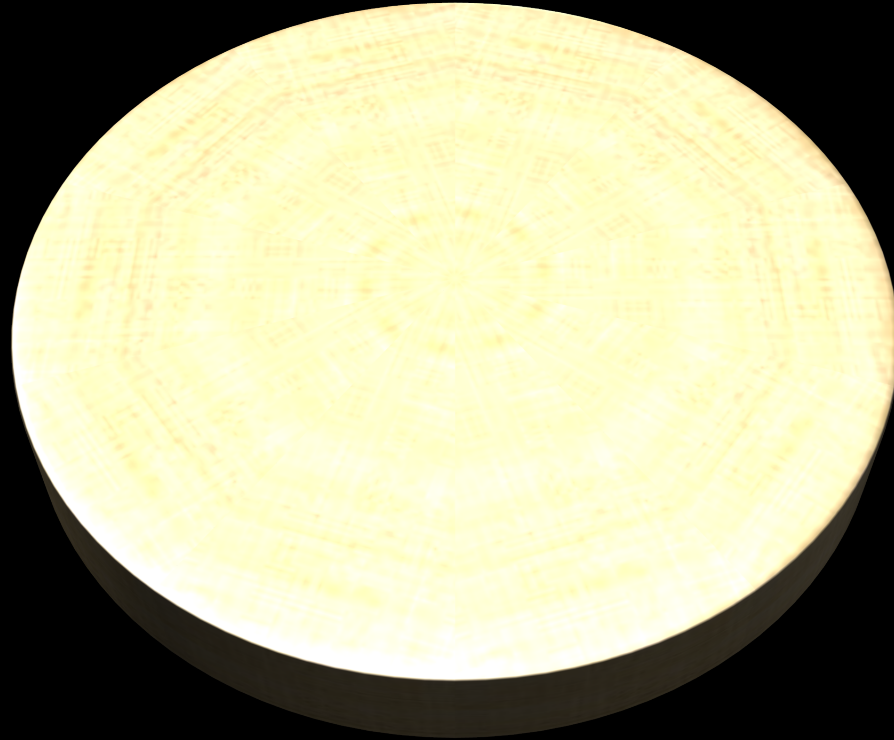
- All work done by 1 worker
- Cannot be Paused
- For quick small tasks

Job



Batch Job

“Cut a pie into slices”



Batch Job



"Cut a pie into slices"

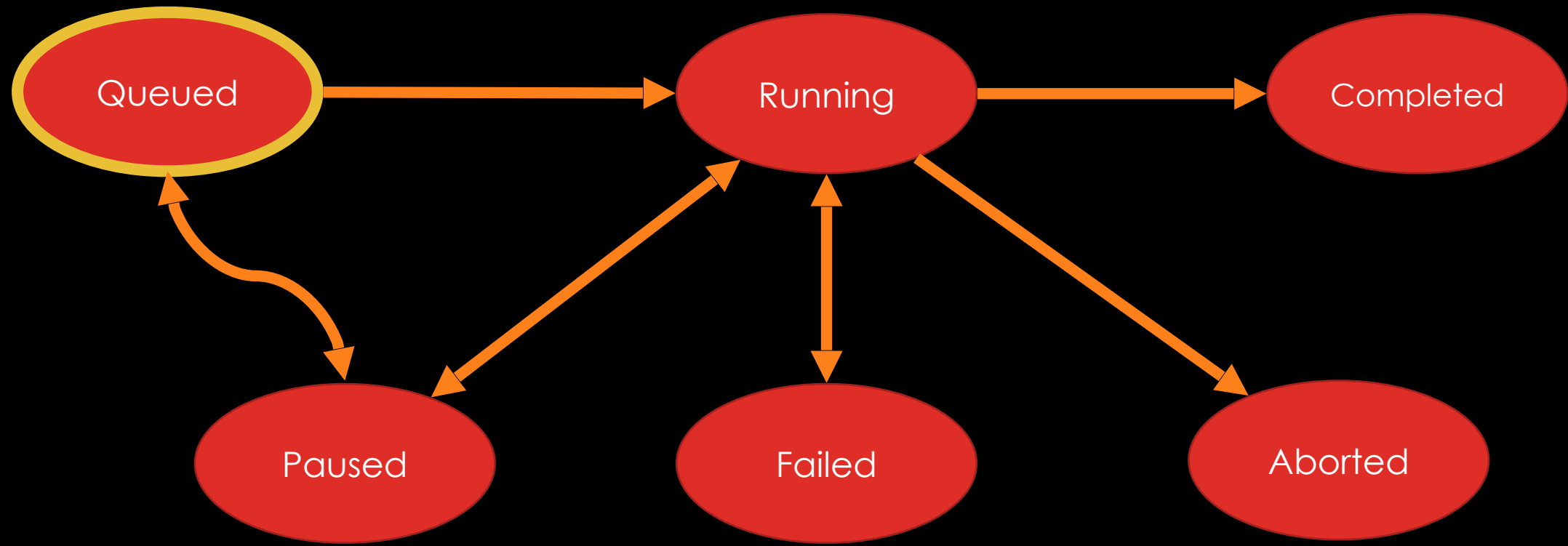
- 10 Slices
- 1 Worker per slice
- 10 Workers
- $1/10^{\text{th}}$ of the time
- Pause-able
- Resume-able
- Long running

Business Priority



- Integer value
 - 1 to 100
- 1 => Highest Priority
- 100 => Lowest Priority
- Same Priority: FIFO
- Order out of chaos

Job Lifecycle



Monitoring

- Visibility Visibility Visibility !!!

[Jobs](#) [Servers](#) [Workers](#) [Directory Monitoring](#)  **Rocket Job** [Home](#)

All

Scheduled (32)

Queued (530)

Running (8)

Completed (1563)

Paused (1)

Failed (49)

Aborted (137)

Running Jobs

Show 10 entries

Class	Description	Progress	Workers	Priority	Started	Actions
TrialAnalysisJob	1251		0	40	2h 2m ago	Pause Destroy
TrialAnalysisJob	1251		610	40	2h 4m ago	Pause Destroy
DataStudyJob	DFG_DS_Input.csv CF_CBA_CCA_CRH v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_GeCap.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_Citi.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_PSEG.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DirectMarketingJob	PG_2018Mar_file5.zip PGmail v1		0	80	2d 17h 43m ago	Pause Destroy
DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1		160	80	2d 17h 43m ago	Pause Destroy

Showing 1 to 8 of 8 entries

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)

[All](#)[Scheduled \(32\)](#)[Queued \(530\)](#)[Running \(8\)](#)[Completed \(1563\)](#)[Paused \(1\)](#)[Failed \(49\)](#)[Aborted \(137\)](#)

Running Jobs

Show entriesSearch:

Class	Description	Progress	Workers	Priority	Started	Actions
TrialAnalysisJob	1251		0	40	2h 2m ago	Pause Destroy
TrialAnalysisJob	1251		610	40	2h 4m ago	Pause Destroy
DataStudyJob	DFG_DS_Input.csv CF_CBA_CCA_CRH v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_GeCap.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_Citi.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_PSEG.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DirectMarketingJob	PG_2018Mar_file5.zip PGmail v1		0	80	2d 17h 43m ago	Pause Destroy
DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1		160	80	2d 17h 43m ago	Pause Destroy

Showing 1 to 8 of 8 entries

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)

[All](#)[Scheduled \(35\)](#)[Queued \(91\)](#)[Running \(5\)](#)[Completed \(1534\)](#)[Paused \(1\)](#)[Failed \(18\)](#)[Aborted \(0\)](#)

All Jobs

Show entriesSearch:

Class	Description	Created	Duration	Actions
 DataStudyJob	August2017_seg3_input.zip CFA_CCA_CIA v1	2/28/2018 9:27:34 pm UTC	11m 53s	Pause Destroy
 DataStudyJob	July2017_seg3_input.zip CFA_CCA_CIA v1	2/28/2018 9:24:11 pm UTC	15m 15s	Pause Destroy
 DataStudyJob	sep2016_seg3_input.zip CFA_CCA_CIA v1	2/28/2018 9:17:47 pm UTC	21m 40s	Pause Destroy
 DataStudyJob	august2016_seg3_input.zip CFA_CCA_CIA v1	2/28/2018 9:11:16 pm UTC	16m 39s	Pause Destroy
 DataStudyJob	August2017_seg2_input.zip CFA_CCA_CIA v1	2/28/2018 8:53:47 pm UTC	16m 39s	Pause Destroy
 DataStudyJob	July2017_seg2_input.zip CFA_CCA_CIA v1	2/28/2018 8:49:23 pm UTC	16m 40s	Pause Destroy
 DataStudyJob	sep2016_seg2_input.zip CFA_CCA_CIA v1	2/28/2018 8:43:56 pm UTC	16m 41s	Pause Destroy
 DataStudyJob	august2016_seg2_input.zip CFA_CCA_CIA v1	2/28/2018 8:38:32 pm UTC	48m 8s	Destroy
 DataStudyJob	LP_DS_Input_Bank.csv CBB_C3 v2	2/28/2018 4:53:21 pm UTC	4m 15s	Destroy
 DataStudyJob	LP_DS_Input_Bank.csv CBB_C3 v2	2/28/2018 4:23:38 pm UTC	4m 31s	Retry Destroy

[All](#)
[Scheduled \(32\)](#)
[Queued \(88\)](#)
[Running \(8\)](#)
[Completed \(1562\)](#)
[Paused \(1\)](#)
[Failed \(48\)](#)
[Aborted \(137\)](#)

Scheduled Jobs


 Show entries

Search:

Class	Description	Runs in	Cron Schedule	Actions
RocketJob::Jobs::HousekeepingJob	Cleans out historical jobs, and zombie servers.	2m 8s	* /15 * * * * UTC	Run Pause Destroy
Cron::PreCalc::TradelineRoutingDefaultRateJob	Calculate tomorrow's tradeline default rates	4h 37m	20 23 * * * UTC	Run Pause Destroy
Cron::Monitor::SendGridUpdateJob	Loads undeliverables and spam reports from Send...	5h 17m	0 0 * * * UTC	Run Pause Destroy
Cron::Loans::ExportInboundJob	Exports inbound tradeline requests	5h 17m	0 0 * * *	Run Pause Destroy
Cron::PreCalc::BankRoutingDailyCountJob	At 00:30 UTC every night cleanup expired data f...	5h 47m	30 0 * * * UTC	Run Pause Destroy
Cron::Consumer::UpdateJob	Update cached Consumer Information	5h 47m	30 0 * * * UTC	Run Pause Destroy
Cron::Imports::AbaDataSeederJob	ABA Seeding	6h 17m	0 1 * * 6 UTC	Run Pause Destroy
Cron::Monitor::CreateLenderReportsAdverseActionsJob	Create lender reports for those groups that do ...	7h 17m	0 2 * * * UTC	Run Pause Destroy

[All](#)[Scheduled \(32\)](#)[Queued \(530\)](#)[Running \(0\)](#)[Completed \(1562\)](#)[Paused \(1\)](#)[Failed \(48\)](#)[Aborted \(137\)](#)

Queued Jobs

Show entriesSearch:

Class	Description	Priority	Queued For	Actions
 ClearPortfolioAlertControlFileJob		50	16h 21m	Pause Destroy
 ClearPortfolioAlertControlFileJob		50	16h 21m	Pause Destroy
 ClearPortfolioAlertControlFileJob		50	16h 21m	Pause Destroy
 ClearPortfolioAlertControlFileJob		50	16h 21m	Pause Destroy
 ClearPortfolioAlertControlFileJob		50	16h 21m	Pause Destroy
 ClearPortfolioAlertControlFileJob		50	16h 21m	Pause Destroy
 ClearPortfolioAlertControlFileJob		50	16h 21m	Pause Destroy
 ClearPortfolioAlertControlFileJob		50	16h 21m	Pause Destroy
 ClearPortfolioAlertControlFileJob		50	16h 21m	Pause Destroy
 ClearPortfolioAlertControlFileJob		50	16h 21m	Pause Destroy

Showing 1 to 10 of 530 entries

[First](#) [Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [...](#) [53](#) [Next](#) [Last](#)

[All](#)
[Scheduled \(32\)](#)
[Queued \(530\)](#)
[Running \(8\)](#)
[Completed \(1562\)](#)
[Failed \(4\)](#)
[Failed \(48\)](#)
[Aborted \(137\)](#)

Completed Jobs

Show entries

Search:

Class	Description	Duration	Completed	Actions
✓ HighRiskElementsRemoveJob	HRE Removal Q4 2017 020218.csv	44.744s	31m 43s ago	Destroy
✓ AchTransactions::UnmatchedReturnsJob	20180202_AWLALS_Lending_-_CFS_Debits_RETURN.csv	789ms	2h 19m ago	Destroy
✓ AchTransactions::UnmatchedReturnsJob	20180202_AWLALS_Lending_-_CFS_3_RETURN.csv	964ms	2h 21m ago	Destroy
✓ BatchInquiryLenderBlockJob	Convert list of inquiries from hard to soft.	7.748s	2h 36m ago	Destroy
✓ AchTransactions::UnmatchedReturnsJob	20180202_AWLALS_Lending_-_CFS_Debits_RETURN.csv	1.014s	2h 39m ago	Destroy
✓ AchTransactions::UnmatchedReturnsJob	20180202_AWLALS_Lending_-_CFS_3_RETURN.csv	949ms	2h 41m ago	Destroy
✓ Tradelines::BatchJob	20180202154835-mti_tl_2018_02_02-results	4m 43s	2h 44m ago	Destroy
✓ AchTransactions::CsvJob	20180202_AWLALS_Lending_-_CFS_Debits_RETURN.csv	2m 15s	2h 59m ago	Destroy
✓ AchTransactions::CsvJob	20180202_AWLALS_Lending_-_CFS_3_RETURN.csv	1.633s	3h 1m ago	Destroy
✓ AchTransactions::CsvJob	20180202_AWLALS_Lending_-_CFS_Credits_RETURN.csv	583ms	3h 1m ago	Destroy

Showing 1 to 10 of 1,562 entries

[First](#)
[Previous](#)
[1](#)
[2](#)
[3](#)
[4](#)
[5](#)
[...](#)
[157](#)
[Next](#)
[Last](#)

[All](#)

[Scheduled \(32\)](#)

[Queued \(530\)](#)

[Running \(8\)](#)

[Completed \(1562\)](#)

[Paused \(1\)](#)

[Failed \(10\)](#)

[Aborted \(137\)](#)

Paused Jobs



Show entries

Search:

Class	Description	Paused	Actions
 Cron::Imports::NoRiskFieldsFromFileDisclosureJob	Examines File Disclosures and adds their HRE Fi...	1d 2h 2m ago	Resume Destroy

Showing 1 to 1 of 1 entries

[First](#) [Previous](#) **[1](#)** [Next](#) [Last](#)

[All](#)
[Scheduled \(32\)](#)
[Queued \(530\)](#)
[Running \(8\)](#)
[Completed \(1562\)](#)
[Paused \(1\)](#)
[Failed \(48\)](#)
[Aborted \(107\)](#)

Failed Jobs

Show entries

Search:

Class	Description	Failed	Actions
Tradelines::MetrolJob	5a7486ae7b369f099d9beb6e_Top_Asset_Solutions_20...	3h 0m ago	Retry Destroy
AchTransactions::CsvJob	20180202_AWLALS_Wire_Funding_-_CFS_RETURN.csv	3h 6m ago	Retry Destroy
Export::SftpJob	Sending to_xpn/MSZP.STS.A926527.CLARITY.O020218...	4h 11m ago	Retry Destroy
DataStudyJob	ds_full_Opportunity_Financial.csv.gz DM_Turnkey v1	12h 33m ago	Retry Destroy
BatchInquiryJob	Fastbucks_softhit_013118_cnt50000.csv BatchInqu...	13h 48m ago	Retry Destroy
Export::SftpJob	Sending to_xpn/MSZP.STS.A926527.CLARITY.O020118...	1d 3h 50m ago	Retry Destroy
TrialAnalysisJob	1301 AWLRHist	1d 14h 48m ago	Retry Destroy
TrialAnalysisJob	1301 invitetoapply	1d 15h 4m ago	Retry Destroy
TrialAnalysisJob	1301 invitetoapply	1d 15h 4m ago	Retry Destroy
TrialAnalysisJob	1301 invitetoapply	2d 1h 29m ago	Retry Destroy

Showing 1 to 10 of 48 entries

[First](#)
[Previous](#)
[1](#)
[2](#)
[3](#)
[4](#)
[5](#)
[Next](#)
[Last](#)

[All](#)[Scheduled \(32\)](#)[Queued \(530\)](#)[Running \(8\)](#)[Completed \(1562\)](#)[Paused \(1\)](#)[Failed \(48\)](#)[Aborted \(137\)](#)

Aborted Jobs

Show entriesSearch:

Class	Description	Aborted	Actions
■ DataStudyJob	DS_Input_Amex2.zip CFA_CCA_CIA v1	10d 20h 11m ago	Destroy
■ RocketJob::Jobs::DirmonJob		15d 14h 9m ago	Destroy
■ RocketJob::Jobs::DirmonJob		15d 14h 14m ago	Destroy
■ RocketJob::Jobs::DirmonJob		15d 14h 20m ago	Destroy
■ RocketJob::Jobs::DirmonJob		15d 14h 25m ago	Destroy
■ RocketJob::Jobs::DirmonJob		15d 14h 30m ago	Destroy
■ RocketJob::Jobs::DirmonJob		15d 14h 35m ago	Destroy
■ RocketJob::Jobs::DirmonJob		15d 14h 40m ago	Destroy
■ RocketJob::Jobs::DirmonJob		15d 14h 45m ago	Destroy
■ RocketJob::Jobs::DirmonJob		15d 14h 50m ago	Destroy

Showing 1 to 10 of 137 entries

[First](#) [Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [...](#) [14](#) [Next](#) [Last](#)

[All](#)[Scheduled \(32\)](#)[Queued \(530\)](#)[Running \(8\)](#)[Completed \(1563\)](#)[Paused \(1\)](#)[Failed \(49\)](#)[Aborted \(137\)](#)

Running Jobs



Show 10 entries

Search:

Class	Description	Progress	Workers	Priority	Started	Actions
TrialAnalysisJob	1251		0	40	2h 2m ago	Pause Destroy
TrialAnalysisJob	1251		610	40	2h 4m ago	Pause Destroy
DataStudyJob	DFG_DS_Input.csv CF_CBA_CCA_CRH v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_GeCap.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_Citi.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_PSEG.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DirectMarketingJob	PG_2018Mar_file5.zip PGmail v1		0	80	2d 17h 43m ago	Pause Destroy
DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1		160	80	2d 17h 43m ago	Pause Destroy

Showing 1 to 8 of 8 entries

[First](#)[Previous](#)[1](#)[Next](#)[Last](#)

All

Starting (0)

▶ Running (76)

Paused (0)

Stopping (0)

Zombie (0)

All Servers

Pause all

Resume all

Stop all



Destroy zombies

Show 10 entries

Search:

Hostname : PID	Workers (Current/Max)	Started	Heartbeat	Actions	
▶ cltapp1.clarity.net:50280	10/10	1d 2h 6m ago	10.001s ago	pause	stop
▶ cltapp1.clarity.net:50442	10/10	1d 2h 6m ago	9.751s ago	pause	stop
▶ cltapp1.clarity.net:50609	10/10	1d 2h 6m ago	9.395s ago	pause	stop
▶ cltapp1.clarity.net:50769	10/10	1d 2h 6m ago	6.107s ago	pause	stop
▶ cltapp10.clarity.net:22424	10/10	1d 2h 6m ago	2.339s ago	pause	stop
▶ cltapp10.clarity.net:22581	10/10	1d 2h 6m ago	4.093s ago	pause	stop
▶ cltapp10.clarity.net:22746	10/10	1d 2h 6m ago	5.531s ago	pause	stop
▶ cltapp10.clarity.net:22922	10/10	1d 2h 6m ago	7.233s ago	pause	stop
▶ cltapp11.clarity.net:38087	10/10	1d 2h 6m ago	3.657s ago	pause	stop
▶ cltapp11.clarity.net:38244	10/10	1d 2h 6m ago	9.349s ago	pause	stop

Showing 1 to 10 of 76 entries

First

Previous

1

2

3

4

5

...

8

Next

Last

Active Workers

Show entries

Worker Name	Class	Description	Started
▶ louapp6.clarity.net:5201:9	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	4m 0s ago
▶ louapp7.clarity.net:14907:10	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 54s ago
▶ louapp5.clarity.net:59452:10	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 51s ago
▶ louapp8.clarity.net:3780:7	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 47s ago
▶ louapp6.clarity.net:4885:3	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 47s ago
▶ louapp7.clarity.net:14907:2	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 46s ago
▶ louapp5.clarity.net:59294:8	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 43s ago
▶ louapp7.clarity.net:14907:6	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 42s ago
▶ louapp6.clarity.net:5043:4	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 42s ago
▶ louapp7.clarity.net:15223:9	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 41s ago
▶ louapp8.clarity.net:3938:2	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 38s ago
▶ louapp5.clarity.net:59610:2	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 38s ago
▶ louapp7.clarity.net:15065:10	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 37s ago
▶ louapp8.clarity.net:3445:4	DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1	3m 33s ago

[+Create](#)[All](#)[Pending \(1\)](#)[✓ Enabled \(93\)](#)[⚠ Failed \(0\)](#)[■ Disabled \(22\)](#)

Enabled Dirmon Entries

Show entriesSearch:

Name	Job Class	Pattern
✓ 1 Hit Direct Marketing	DirectMarketingJob	/export/ftp/analytics/1_Hit/direct_marketing/*
✓ 2 Turnkey Direct Marketing	DirectMarketingJob	/export/ftp/analytics/2_Turnkey_Step1/direct_marketing/*
✓ AWL Direct Marketing	DirectMarketingJob	/export/ftp/analytics/AWL/direct_marketing/*
✓ AWL Tradelines	Tradelines::BatchJob	/export/ftp/americanwebloan/loanreporting/*.{csv,zip,gz,gzip,xlsx}
✓ AWL csv presentments	AchTransactions::CsvJob	/export/ftp/americanwebloan/ach_contribution/ach_presentments_csv/*.csv
✓ AWL csv returns (CFS)	AchTransactions::CsvJob	/export/ftp/americanwebloan/ach_contribution/ach_returns_csv/*CFS*
✓ AWL csv returns (PDS)	AchTransactions::CsvJob	/export/ftp/americanwebloan/ach_contribution/ach_returns_csv/*PDS*
✓ AWL nacha presentments	AchTransactions::NachaJob	/export/ftp/americanwebloan/ach_contribution/ach_presentments_nacha/*.x340
✓ AWL nacha returns	AchTransactions::NachaJob	/export/ftp/americanwebloan/ach_contribution/ach_returns_nacha/*.x340
✓ Axxess Direct Marketing	DirectMarketingJob	/export/ftp/analytics/Axxess_DM/direct_marketing/*

Showing 1 to 10 of 93 entries

[First](#) [Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [...](#) [10](#) [Next](#) [Last](#)

Regular Jobs

- At most 1 worker per job instance

Class	Description	Progress	Workers	Priority	Started	Actions
▶ RocketJob::Jobs::DirmonJob			1	40	43.025s ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	12m 39s ago	Pause Destroy
▶ SkipTraceJob	CL020518_1.csv BatchSkipTrace v1		100	50	13m 14s ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	13m 14s ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	13m 14s ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	13m 14s ago	Pause Destroy
▶ Cron::Export::AcxiomJob	Monthly full consumer export for Acxiom		732	51	3h 42m ago	Pause Destroy

Batch Jobs

Running Jobs

Show 10 entries

Search:

Class	Description	Progress	Workers	Priority	Started	Actions
▶ Tradelines::MetrollJob	Axcess tradelines		1	60	2m 44s ago	Pause Destroy
▶ TrialAnalysisJob	1301 DMpostscreen	Batch before	1	40	5m 33s ago	Pause Destroy
⌘ BatchInquiryJob	Charlie_Netdown_951102.zip BatchInquiry v1		0	85	1d 6h 0m ago	Pause Destroy
⌘ DirectMarketingJob	ds_Axcess_exp_3.csv.gz Axcess_DM v1		0	80	5d 6h 41m ago	Pause Destroy
▶ DirectMarketingJob	ds_Axcess_exp_2.csv.gz Axcess_DM v1		838	80	5d 6h 41m ago	Pause Destroy

Showing 1 to 5 of 5 entries

First Previous 1 Next Last

Before & After Processing

- Before Processing
 - Upload file
 - Decryption
 - Decompression
 - Load records from database
 - 1 Worker
 - **before_batch**

State running

Batch before

- Processing
 - Many workers

State running

Batch processing

- After Processing
 - Download file
 - Encryption
 - Compression
 - Email notification
 - File Transfer
 - 1 Worker
 - **after_batch**

State running

Batch after

Before & After Processing

Class	Description	Progress	Workers	Priority	Started	Actions
▶ RocketJob::Jobs::HousekeepingJob	Cleans out historical jobs, and zombie servers.		1	25	15.712s ago	Pause Destroy
▶ TrialAnalysisJob	3400 ClarityBestPractices_NoIO.NoBV.Scorecard_B	Batch before	1	40	4m 42s ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	28m 0s ago	Pause Destroy
▶ DataStudyJob	BCS_DS_Input.csv.gz CF_CBB_CCA_CIA_CRH v1		823	80	1h 5m ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	1h 29m ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	1h 54m ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	1h 54m ago	Pause Destroy
▶ Cron::Export::AcxiomJob	Monthly full consumer export for Acxiom	Batch after	1	51	5h 24m ago	Pause Destroy

[☰ All](#)[🕒 Scheduled \(38\)](#)[📁 Queued \(523\)](#)[▶ Running \(12\)](#)[✓ Completed \(1563\)](#)[⏸ Paused \(1\)](#)[⚠ Failed \(49\)](#)[■ Aborted \(137\)](#)

TrialAnalysisJob

State running**Batch** after

Pause

Fail

Abort

Destroy

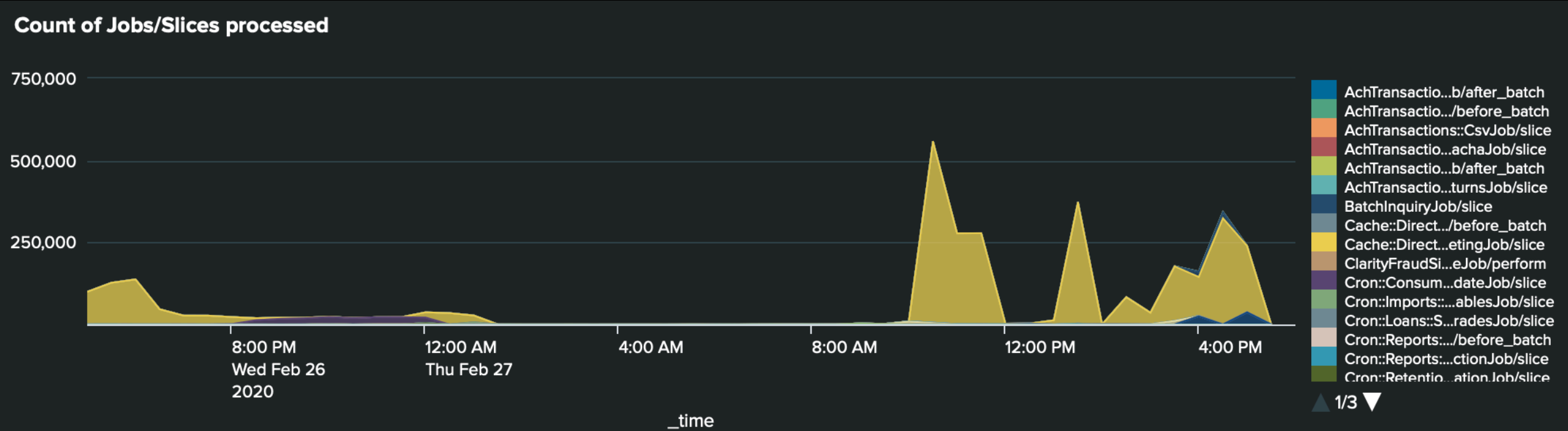
Edit

ID: 5a748cbb8a211c7d3634c411**Description:** 1251**Duration:** 4h 15m**Record Count:** 8911850**Created At:** 2/2/2018 11:07:23 am EST**Started At:** 2/2/2018 11:07:23 am EST**% Complete:** 100**Active Slices:** 1**Failed Slices:** 0**Queued Slices:** 0**Est Remaining Duration:** 0ms**Output Slices:** 89120**Collect Nil Output:** true**Collect Output:** true**Compress:** true**Destroy On Complete:** false**Download File Extension:** csv**Encrypt:** true**End Date:** 2/28/2018**Include Private:** false**Log Level:** warn**Login:** deenananarayanaswamy**Priority:** 40**Retry Limit:** 3

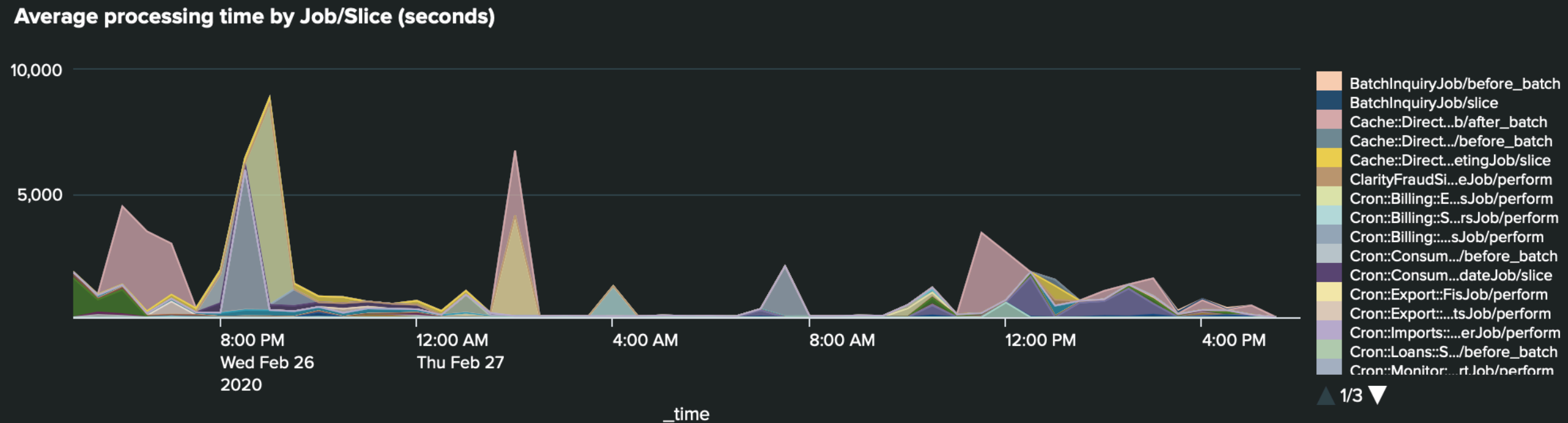
Sleeping Jobs

Running Jobs							
Show 10 entries		Search:					
Class	Description	Progress	Workers	Priority	Started	Actions	
 TrialAnalysisJob	1251		0	40	2h 2m ago	Pause	Destroy
 TrialAnalysisJob	1251		610	40	2h 4m ago	Pause	Destroy
 DataStudyJob	DFG_DS_Input.csv CF_CBA_CCA_CRH v1		0	80	12h 3m ago	Pause	Destroy
 DataStudyJob	DS_Input_GeCap.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause	Destroy
 DataStudyJob	DS_Input_Citi.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause	Destroy
 DataStudyJob	DS_Input_PSEG.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause	Destroy
 DirectMarketingJob	PG_2018Mar_file5.zip PGmail v1		0	80	2d 17h 43m ago	Pause	Destroy
 DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1		160	80	2d 17h 43m ago	Pause	Destroy
Showing 1 to 8 of 8 entries				First	Previous	1	Next
				Last			

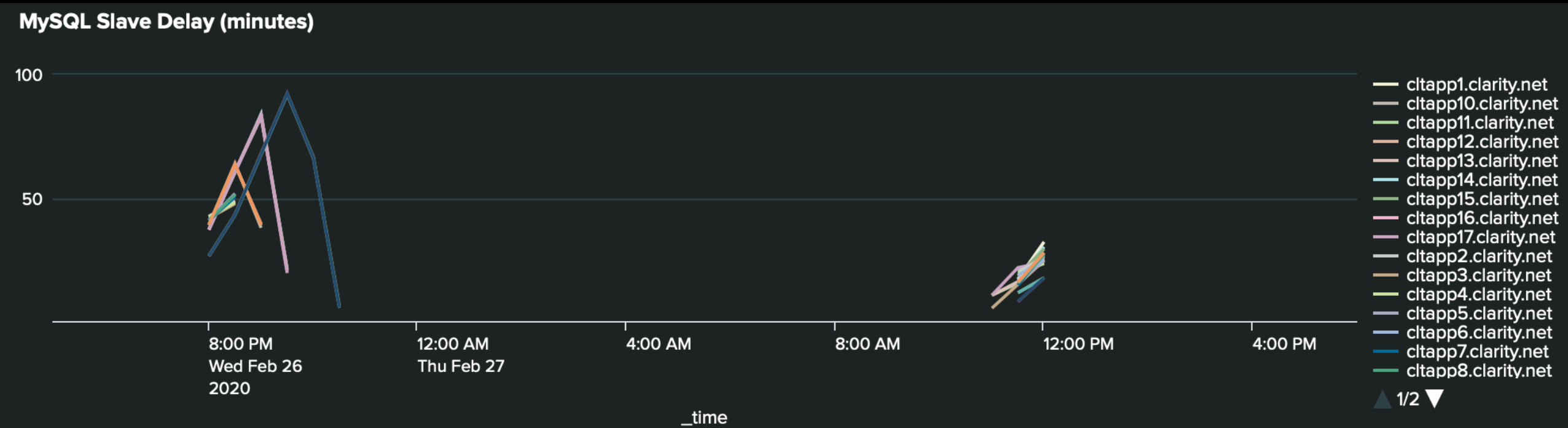
Splunk Dashboard



Splunk Dashboard



Splunk Dashboard



Clarity Connect

Inbox

Timeline

Releases

Settings

UPDATES

DOCS

SUPPORT

RM

production

RELEASE
Any

SEVERITY
All

status:open appType:batch

1h 3h 1d 7d 30d all

Jan 28th, 17:50 – Feb 27th, 17:50

EST
UTC

30 Errors

Introduced Today (4)

Open (30)

For review (30)

Assigned to me (0)

Assigned to anyone (0)

Issue created (0)

Fixed (17)

Snoozed (0)

Ignored (2)



ERROR

EVENTS

USERS

LAST TWO WEEKS

STAGE

SEVERITY



ActiveRecord::StatementInvalid · SQLErr...

ActiveRecord::JDBCError: Max connect timeout r...
about 47 minutes ago – 2 days ago

83,867

-

P



ActiveRecord::StatementInvalid · Native ...

ActiveRecord::JDBCError: com.mysql.jdbc.excepti...
about 1 hour ago – 1 day ago

64

-

P



ActiveRecord::StatementInvalid · Mysql...

ActiveRecord::JDBCError: Could not retrieve tran...
about 1 hour ago – 1 day ago

44

-

P



Mongoid::Errors::UnknownModel · gems...

message: Attempted to instantiate an object of t...
about 1 hour ago – 4 hours ago

6

-

P



HANDLED



ActiveRecord::StatementInvalid · Native ...

ActiveRecord::JDBCError: com.mysql.jdbc.excepti...
about 1 hour ago

1

-

P





Managing Jobs

- Edit Jobs
 - Change Priority
- Run a scheduled job now
- Retry Failed Jobs
- Pause Running Batch Jobs
- Resume Paused Batch Jobs
- Abort Jobs
- Destroy Jobs

Change Jobs

[Jobs](#) [Servers](#) [Workers](#) [Directory Monitoring](#)



[Home](#)

[All](#)

[Scheduled \(36\)](#)

[Queued \(520\)](#)

[Running \(11\)](#)

[Completed \(1573\)](#)

[Paused \(1\)](#)

[Failed \(49\)](#)

[Aborted \(137\)](#)

Cron::Monitor::SendGridUpdateJob

State **scheduled**

[Run](#) [Pause](#) [Fail](#) [Abort](#) [Destroy](#) [Edit](#)

ID: 5a73aa241d672d80c8758d01

Description: Loads undeliverables and spam reports from SendGrid.

Duration: 21h 13m

Created At: 2/1/2018 7:00:36 pm EST

% Complete: 0

Collect Output: false

Cron Schedule: 0 0 * * * UTC

Destroy On Complete: false

Priority: 35

Run At: 2/2/2018 7:00:00 pm EST

All

Scheduled (36)

Queued (520)

Running (11)

Completed

Paused (1)

Failed (49)

Aborted (137)

Edit Cron

With great power comes
great responsibility

Cron schedule

0 0 *** UTC

Save

Cancel

Run a Scheduled Job now

[Jobs](#) [Servers](#) [Workers](#) [Directory Monitoring](#)

 **Rocket Job**

[Home](#)

☰ All

🕒 Scheduled (41)

📁 Queued (0)

▶ Running (1)

✓ Completed (14969)

⏸ Paused (4)

⚠ Failed (61)

■ Aborted (7)

Scheduled Jobs

Show entries

Search:

Class	Description	Runs in	Cron Schedule	Actions
🔴 RocketJob::Jobs::HousekeepingJob	Cleans out historical jobs, and zombie servers.	1m 22s	* /15 * * * * UTC	Run Destroy
🔴 Cron::Reports::FraudDetectionJob	logs fraud indicators	1m 22s	* /10 * * * *	Run Pause Destroy
🔴 ClarityFraudSignature::QuarantineJob		31m 22s	0 * * * * UTC	Run Destroy
🔴 Cron::PreCalc::AbaRoutingDefaultRateJob	Pre calculate default rate for non tradeline ro...	1h 51m	20 23 * * * UTC	Run Pause Destroy
🔴 Cron::PreCalc::TradelineRoutingDefaultRateJob	Calculate tomorrow's tradeline default rates	1h 51m	20 23 * * * UTC	Run Pause Destroy
🔴 Cron::StaleTradelineJob	Daily Tradeline Stale Job	2h 36m	05 0 * * *	Run Pause Destroy
🔴 Cron::PreCalc::BankRoutingDailyCountJob	At 00:30 UTC every night cleanup expired data f...	3h 1m	30 0 * * * UTC	Run Destroy
🔴 Cron::Consumer::UpdateJob	Update cached Consumer Information	3h 1m	30 0 * * * UTC	Run Pause Destroy
🔴 Cron::Imports::AbaDataSeederJob	ABA Seeding	3h 31m	0 1 * * 6 UTC	Run Destroy

[All](#)
[Scheduled \(32\)](#)
[Queued \(530\)](#)
[Running \(8\)](#)
[Completed \(1562\)](#)
[Paused \(1\)](#)
[Failed \(48\)](#)
[Aborted \(137\)](#)

Failed Jobs

Show 10 entries

Search:

Class	Description	Failed	Actions
 Tradelines::MetrolJob	5a7486ae7b369f099d9beb6e_Top_Asset_Solutions_20...	3h 0m ago	Retry Destroy
 AchTransactions::CsvJob	20180202_AWLALS_Wire_Funding_-_CFS_RETURN.csv	3h 6m ago	Retry Destroy
 Export::SftpJob	Sending to_xpn/MSZP.STS.A926527.CLARITY.O020218...	4h 11m ago	Retry Destroy
 DataStudyJob	ds_full_Opportunity_Financial.csv.gz DM_Turnkey v1	12h 33m ago	Retry Destroy
 BatchInquiryJob	Fastbucks_softhit_013118_cnt50000.csv BatchInqu...	13h 48m ago	Retry Destroy
 Export::SftpJob	Sending to_xpn/MSZP.STS.A926527.CLARITY.O020118...	1d 3h 50m ago	Retry Destroy
 TrialAnalysisJob	1301 AWLRHist	1d 14h 48m ago	Retry Destroy
 TrialAnalysisJob	1301 invitetoapply	1d 15h 4m ago	Retry Destroy
 TrialAnalysisJob	1301 invitetoapply	1d 15h 4m ago	Retry Destroy
 TrialAnalysisJob	1301 invitetoapply	2d 1h 29m ago	Retry Destroy

Showing 1 to 10 of 48 entries

[First](#)
[Previous](#)
[1](#)
[2](#)
[3](#)
[4](#)
[5](#)
[Next](#)
[Last](#)

[All](#)[Scheduled \(41\)](#)[Queued \(0\)](#)[Running \(1\)](#)[Completed \(14969\)](#)[Paused \(4\)](#)[Failed \(61\)](#)[Aborted \(7\)](#)

RocketJob::Jobs::UploadFileJob

State **failed**[Retry](#) [Abort](#) [Destroy](#) [Edit](#)**ID:** 5c921792a08f81dcb0da679f**Description:** bigpicture csv presentments: 20190320_ACHPresentment.csv**Duration:** 928ms**Created At:** 3/20/2019 6:36:02 am EDT**Started At:** 3/20/2019 6:36:02 am EDT**% Complete:** 0**Failed At:** 3/20/2019 6:36:03 am EDT**Collect Output:** false**Destroy On Complete:** true**Failure Count:** 1

Exception:

```
{
  "_id": {
    "$oid": "5c9217964de02cb2fc1a30f3"
  },
  "backtrace": [
    {
      "class_name": "CSV::MalformedCSVError",
      "message": "Illegal quoting in line 1090.",
      "record_number": null,
      "worker_name": "cltapp4.clarity.net:24452:5"
    }
  ]
}
```


≡ All

🕒 Scheduled (42)

📁 Queued (0)

▶ Running (0)

✓ Completed (14972)

⏸ Paused (4)

⚠ Failed (61)

■ Aborted (7)

Tradelines::BatchJob

State **failed**

Batch processing

Retry

Abort

Destroy

Edit

ID: 5c8bf62c3db6e2dfd71b788d

Description: 20190315193459-ClarityTradeline_Opploans_2019_03_15-results

Duration: 4m 15s

Record Count: 111237

Created At: 3/15/2019 2:59:57 pm EDT

Started At: 3/15/2019 3:34:57 pm EDT

% Complete: 99

Active Slices: 0

Failed Slices: 1

Queued Slices: 0

Output Slices: 1112

Upload File Name: /export/ftp/oppfinancial/loanreporting/ClarityTradeline_Opploans_2019_03_15.csv

Upload File Result: 145898

Exceptions:

Count	Exception Class	Exception Messages
1	CSV::MalformedCSVError	Illegal quoting in line 73.

View Slice

Line: 73

561,795,1251,oppfinancial,s[REDACTED],2018-09-04,C3,N[REDACTED],B,800,1,6[REDACTED]
J,[REDACTED],2404 Ventura Drive Apt "A",,Arlington,TX,76015,1
1[REDACTED],w0twsxcjk8,LAI-00385041,2019-03-15,2018-09-14,2019-02-15 13
:54:09,,0,203,FALSE,@,0,0,0,2019-02-15,1,,,

[Back](#)

[Edit](#)

Line: 74

All

🕒 Scheduled (42)

 Queued (0)

▶ Running (0)

✓ Completed (14971)

■ Paused (4)

⚠ Failed (61)

■ Aborted (7)

561,795,1251,oppfinancial,[REDACTED],2018-09-04,C3,N,12,B,800,1,[REDACTED]
J,E,Orta,C14,10-75502,100-42-43,243 Ventura Drive Apt
"A",Allington,TX,76015,111906271,4[REDACTED]w0twsxcjk8,LAI-00385041,2019-03-15,2018-
09-14,2019-02-15 13:54:09,,0,203,FALSE,@,0,0,0,2019-02-15,1,,

Save

Delete

Cancel

[All](#)[Scheduled \(32\)](#)[Queued \(530\)](#)[Running \(8\)](#)[Completed \(1563\)](#)[Paused \(1\)](#)[Failed \(49\)](#)[Aborted \(137\)](#)

Running Jobs

Show entriesSearch:

Class	Description	Progress	Workers	Priority	Started	Actions
TrialAnalysisJob	1251		0	40	2h 2m ago	Pause Destroy
TrialAnalysisJob	1251		610	40	2h 4m ago	Pause Destroy
DataStudyJob	DFG_DS_Input.csv CF_CBA_CCA_CRH v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_GeCap.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_Citi.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DataStudyJob	DS_Input_PSEG.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause Destroy
DirectMarketingJob	PG_2018Mar_file5.zip PGmail v1		0	80	2d 17h 43m ago	Pause Destroy
DirectMarketingJob	PG_2018Mar_file6.zip PGmail v1		160	80	2d 17h 43m ago	Pause Destroy

Showing 1 to 8 of 8 entries

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)

☰ All

🕒 Scheduled (40)

📄 Queued (0)

▶ Running (2)

✓ Completed (14969)

⏸ Paused (4)

⚠ Failed (61)

■ Aborted (7)

Cron::Reports::FraudDetectionJob

State **running**

Batch **processing**

Pause **Fail** **Abort** **Destroy** **Edit**

ID: 5c955180b08fd8640f800aea

Description: logs fraud indicators

Duration: 11.546s

Record Count: 3856

Created At: 3/22/2019 5:20:00 pm EDT

Started At: 3/22/2019 5:26:11 pm EDT

% Complete: 99

Active Slices: 39

Failed Slices: 0

Queued Slices: 0

Est Remaining Duration: 116ms

Collect Nil Output: true

Collect Output: false

Compress: false

Cron Schedule: */10 * * * *

Remaining Slices

BatchInquiryJob

State **running**

Batch **processing**

ID: 5a9480d070b65b6799bae023

Description: elastic_acct_mgmt_batch_4.csv.pgp ELASTIC_Account_Review_Base v3

Duration: 30m 53s

Record Count: 25640

Created At: 2/26/2018 4:49:04 pm EST

Started At: 2/27/2018 11:04:35 am EST

% Complete: 78

Active Slices: 54

Failed Slices: 0

Queued Slices: 0

Est Remaining Duration: 8m 42s

Output Slices: 203

Running Jobs



Show 10 entries

Search:

Class	Description	Progress	Workers	Priority	Started	Actions
▶ DataStudyJob	august2016_seg3_input.zip CFA_CCA_CIA v1	Batch before	1	80	57.194s ago	Pause Destroy
▶ DataStudyJob	august2016_seg3_input.zip CFA_CCA_CIA v1	Batch before	1	80	57.411s ago	Pause Destroy
▶ DataStudyJob	August2017_seg2_input.zip CFA_CCA_CIA v1	Batch before	1	80	57.494s ago	Pause Destroy
▶ DataStudyJob	July2017_seg2_input.zip CFA_CCA_CIA v1	Batch before	1	80	58.242s ago	Pause Destroy
▶ DataStudyJob	sep2016_seg2_input.zip CFA_CCA_CIA v1	Batch before	1	80	58.506s ago	Pause Destroy
▶ Cron::Reports::ClearPortfolioAlertJob	Daily Clear Portfolio Alerts job	Batch before	1	40	1m 19s ago	Pause Destroy
▶ DataStudyJob	august2016_seg2_input.zip CFA_CCA_CIA v1		689	80	41m 19s ago	Pause Destroy

Throttling

- Throttle instances
 - Per Job Class
- Throttle workers
 - Per Job
- Database Replication Delay
 - By Local Read Only Database

Throttle Instances

Class	Description	Progress	Workers	Priority	Started	Actions
▶ RocketJob::Jobs::DirmonJob			1	40	57.128s ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	1m 3s ago	Pause Destroy
▶ SkipTraceJob	CL020518_1.csv BatchSkipTrace v1	Batch before	1	50	1m 37s ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	1m 37s ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	1m 38s ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50	1m 38s ago	Pause Destroy
▶ Cron::Export::AcxiomJob	Monthly full consumer export for Acxiom		829	51	3h 31m ago	Pause Destroy
▶ ClearPortfolioAlertControlFileJob			1	50		Pause Destroy

Throttle Workers

Running Jobs



Show 10 entries

Search:

Class	Description	Progress	Workers	Priority	Started	Actions
▶ AchTransactions::CsvJob	20180227_AWLALS_Lending_-_CFS_Debits_RETURN.csv		7	45	1m 1s ago	Pause Destroy
▶ BatchInquiryJob	elastic_acct_mgmt_batch_4.csv.pgp ELASTIC_Accou...		57	45	29m 49s ago	Pause Destroy
▶ Cron::Consumer::UpdateJob	Update Thursday cache		700	65	6h 12m ago	Pause Destroy

Showing 1 to 3 of 3 entries

First Previous 1 Next Last

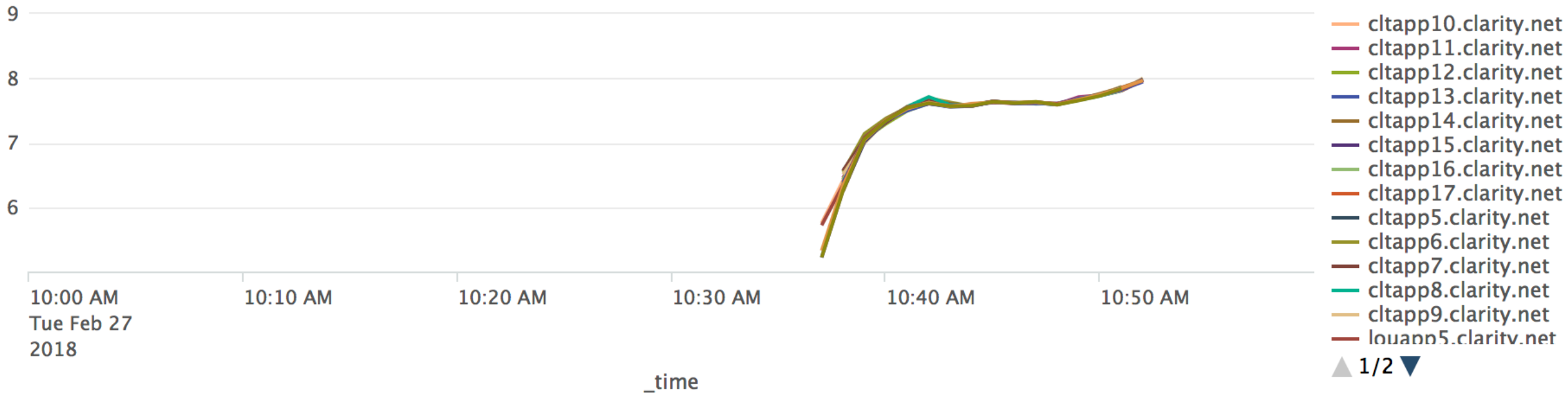
Database Replication Delay Throttle

- When replica database falls behind primary
- Throttled jobs go to Sleep

Running Jobs							
Show 10 entries		Search:					
Class	Description	Progress	Workers	Priority	Started	Actions	
 DataStudyJob	DFG_DS_Input.csv CF_CBA_CCA_CRH v1		0	80	12h 3m ago	Pause	Destroy
 DataStudyJob	DS_Input_GeCap.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause	Destroy
 DataStudyJob	DS_Input_Citi.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause	Destroy
 DataStudyJob	DS_Input_PSEG.csv.gz CFA_CCA_CIA v1		0	80	12h 3m ago	Pause	Destroy

Splunk Dashboard

MySQL Slave Delay (minutes)



Deployments

Running Jobs

Show 10 entries

Search:

Class	Description	Progress	Workers	Priority	Started	Actions
 DataStudyJob	DS_Input_Drivetime.csv CFA_CCA_CIA v1		0	80	1d 9h 31m ago	Pause Destroy
 DataStudyJob	ds_full_Opportunity_Financial.csv.gz DM_Turnkey v1		0	80	1d 9h 32m ago	Pause Destroy
 DataStudyJob	DS_Input_Carvana.csv.gz CFA_CCA_CIA v1		0	80	1d 9h 32m ago	Pause Destroy
 DirectMarketingJob	Think_April2018_file6.zip tfmail v4		0	80	4d 1h 58m ago	Pause Destroy
 DirectMarketingJob	Think_April2018_file5.zip tfmail v4		0	80	4d 1h 58m ago	Pause Destroy

Showing 1 to 5 of 5 entries

First Previous 1 Next Last

Deployments

 [Jobs](#)  [Servers](#)  [Workers](#)  [Directory Monitoring](#)



[Home](#)

 All

 Starting (0)

 Running (0)

 Paused (0)

 Stopping (0)

 Zombie (0)

All Servers

Pause all

Resume all

Stop all

Destroy zombies



Show entries

Search:

 Hostname : PID

 Workers (Current/Max)

 Started

 Heartbeat

Actions

No data available in table

Showing 0 to 0 of 0 entries

First

Previous

Next

Last

Deployments

- Regular Jobs
 - Allowed to complete
- Batch Job
 - Slices allowed to complete

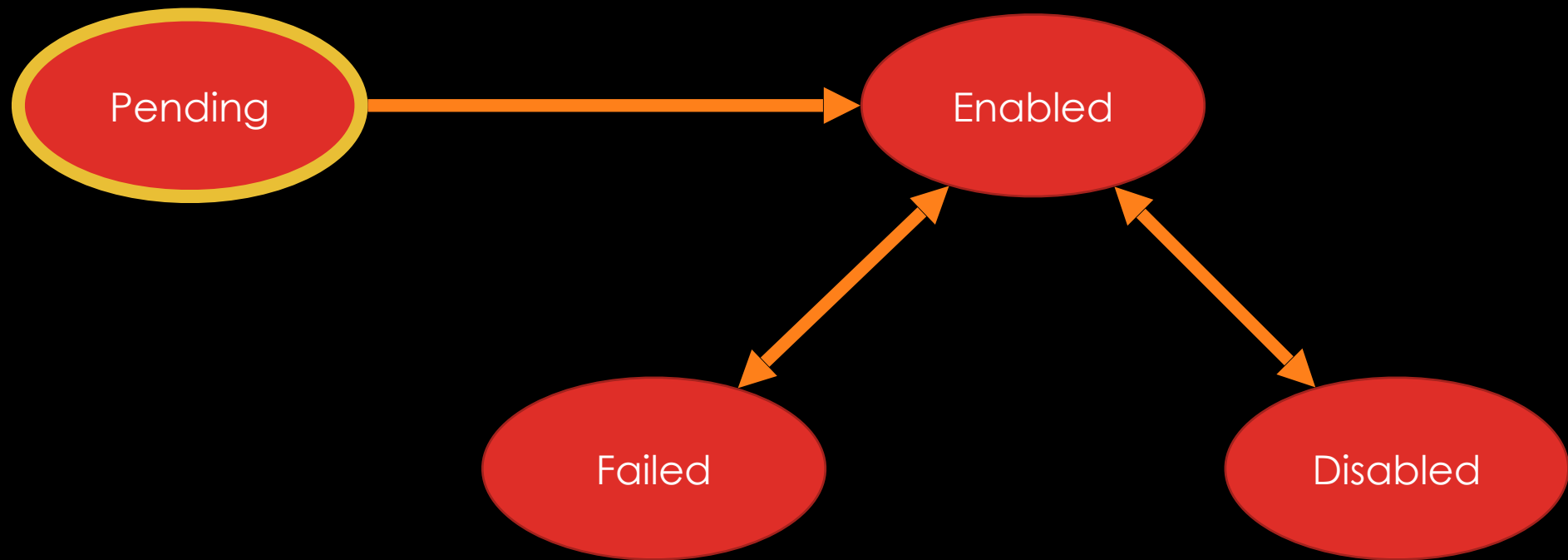
Break



Directory Monitoring

- Inbound files
 - ftp
 - Enqueue job
- Dirmon Entry
- Dirmon Job

Dirmon Entry Lifecycle



[+Create](#)[All](#)[Pending \(1\)](#)[✓ Enabled \(93\)](#)[⚠ Failed \(0\)](#)[■ Disabled \(22\)](#)

Enabled Dirmon Entries

Show entriesSearch:

Name	Job Class	Pattern
✓ 1 Hit Direct Marketing	DirectMarketingJob	/export/ftp/analytics/1_Hit/direct_marketing/*
✓ 2 Turnkey Direct Marketing	DirectMarketingJob	/export/ftp/analytics/2_Turnkey_Step1/direct_marketing/*
✓ AWL Direct Marketing	DirectMarketingJob	/export/ftp/analytics/AWL/direct_marketing/*
✓ AWL Tradelines	Tradelines::BatchJob	/export/ftp/americanwebloan/loanreporting/*.{csv,zip,gz,gzip,xlsx}
✓ AWL csv presentments	AchTransactions::CsvJob	/export/ftp/americanwebloan/ach_contribution/ach_presentments_csv/*.csv
✓ AWL csv returns (CFS)	AchTransactions::CsvJob	/export/ftp/americanwebloan/ach_contribution/ach_returns_csv/*CFS*
✓ AWL csv returns (PDS)	AchTransactions::CsvJob	/export/ftp/americanwebloan/ach_contribution/ach_returns_csv/*PDS*
✓ AWL nacha presentments	AchTransactions::NachaJob	/export/ftp/americanwebloan/ach_contribution/ach_presentments_nacha/*.x340
✓ AWL nacha returns	AchTransactions::NachaJob	/export/ftp/americanwebloan/ach_contribution/ach_returns_nacha/*.x340
✓ Axxess Direct Marketing	DirectMarketingJob	/export/ftp/analytics/Axxess_DM/direct_marketing/*

Showing 1 to 10 of 93 entries

[First](#) [Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [...](#) [10](#) [Next](#) [Last](#)

+ Create

☰ All

🕒 Pending (1)

✓ Enabled (93)

⚠ Failed (0)

■ Disabled (22)

Pending Dirmon Entries



Show entries

Search:

☰ Name	☰ Job Class	☰ Pattern
🔗 Balance Credit Metro 2 Tradeline	Tradelines::MetrollJob	ftp/balancecredit/loanreporting/*.{txt,TXT,zip,ZIP}

Showing 1 to 1 of 1 entries

+Create

☰All

🕒 Pending (1)

✓ Enabled (93)

⚠ Failed (0)

■ Disabled (22)

Tradelines::MetrollJob

status pending

[Enable](#) [Destroy](#) [Edit](#)

Name:Balance Credit Metro 2 Tradeline

Pattern:ftp/balancecredit/loanreporting/*.{txt,TXT,zip,ZIP}

Job Class Name:Tradelines::MetrollJob

Archive Directory:ftp/balancecredit/archive

Description: Balance Credit Loan Reporting

Historical File: true

Output Path: ftp/balancecredit/loanreporting/output

Collect Output: true

ID:5a6b8b98a38d6c340ca78a33

+Create

All

Pending (1)

✓ Enabled (93)

⚠ Failed (0)

■ Disabled (22)

Failed Dirmon Entries



Show entries

Search:

≡ Name

≡ Job Class

≡ Pattern

No data available in table

Showing 0 to 0 of 0 entries

First

Previous

Next

Last

[+Create](#)
[All](#)
[Pending \(1\)](#)
[Enabled \(93\)](#)
[Failed \(0\)](#)
[Disabled \(22\)](#)

Disabled Dirmon Entries


 Show entries

 Search:

Name	Job Class	Pattern
■ Advance America nacha presentments	AchTransactions::NachaJob	/export/ftp/advanceamerica/ach_contribution/ach_presentments_nacha/*ACHPRES*
■ Advance America nacha returns	AchTransactions::NachaJob	/export/ftp/advanceamerica/ach_contribution/ach_returns_nacha/*ACHRET*
■ Balance Credit Loan Reporting	Tradelines::BatchJob	/export/ftp/balancecredit/loanreporting/*.{csv,zip,gz,gzip,xlsx}
■ Curo Metro2 loanreporting	Tradelines::MetroIIJob	/export/ftp/speedycash/loanreporting
■ Easycash Tradeline Contribution	Tradelines::BatchJob	/export/ftp/easycash/loanreporting/*.{csv,zip,gz,gzip,xlsx}
■ Elevate Elastic Account Review JSON Batch Inquiry	BatchInquiryJob	/export/ftp/elevatereview/elasticaccountreview/elastic*.csv
■ Elevate Elastic Account Review with Profile JSON Batch Inquiry	BatchInquiryJob	/export/ftp/elevatereview/elasticaccountreviewprofile/elastic*.csv
■ Elevate Elastic Collections JSON Batch Inquiry	BatchInquiryJob	/export/ftp/elevatereview/elasticcollections/elastic*.csv
■ Elevate Rise Account Review JSON Batch Inquiry	BatchInquiryJob	/export/ftp/elevatereview/riseaccountreview/rise*.csv
■ Elevate Rise Account Review with Profile JSON Batch Inquiry	BatchInquiryJob	/export/ftp/elevatereview/riseaccountreviewprofile/rise*.csv

Showing 1 to 10 of 22 entries

Create Dirmon Entry

[Jobs](#) [Servers](#) [Workers](#) [Directory Monitoring](#)



[Home](#)

+Create

[All](#)

[Pending \(1\)](#)

[Enabled \(101\)](#)

[Failed \(0\)](#)

[Disabled \(17\)](#)

New Dirmon Entry

Name

Customer Batch Inquiries

Job class name

BatchInquiryJob

Pattern

/export/ftp/customer/

Archive directory

/export/ftp/customer/archive

[properties](#)

[create](#)

[cancel](#)



+Create

☰All

📁 Pending (2)

✓ Enabled (101)

⚠ Failed (0)

■ Disabled (17)

BatchInquiryJob

status pending

Enable

Destroy

Edit

Name:Customer Batch Inquiries

Pattern:/export/ftp/customer/*

Job Class Name:BatchInquiryJob

Archive Directory:/export/ftp/customer/archive

ID:5aa68afba38d6c58ae0bde1c

[+Create](#)

[☰All](#)

[🕒 Pending \(2\)](#)

[✓ Enabled \(101\)](#)

[⚠ Failed \(0\)](#)

[■ Disabled \(17\)](#)

Edit Dirmon Entry

Name

Customer Batch Inquiries

Job class name

BatchInquiryJob

Pattern

/export/ftp/customer/*

Archive directory

/export/ftp/customer/archive

Job Properties

Description [String]

Priority [Integer]

Run at [Time]

Log level [Symbol]

Slice size [Integer]

Throttle running slices [Integer]

DirmonJob

RocketJob::Jobs::DirmonJob

State **scheduled**

Run

Pause

Fail

Abort

Destroy

Edit

ID: 5aa6912e8ad7149ff6fde9be

Duration: 4m 43s

Created At: 3/12/2018 10:39:42 am EDT

% Complete: 0

Check Seconds: 300.0

Collect Output: false

Destroy On Complete: true

Priority: 35

Run At: 3/12/2018 10:44:42 am EDT

Previous File Names:

```
{
  "/export/ftp/titlemax/loanreporting/newmexico/new_loans_clarity_3_10_csv": 8218
}
```

RocketJob::Jobs::UploadFileJob

- Used by Dirmon.
- Invokes a downstream job on completion.
- Improves Dirmon Responsiveness.
- Features
 - Uploads a single file into a new job.
 - Kicks off job once file has been uploaded.
 - Parse entire CSV file before processing.
 - Job fails on a bad file.

[All](#)[Scheduled \(41\)](#)[Queued \(0\)](#)[Running \(1\)](#)[Completed \(14969\)](#)[Paused \(4\)](#)[Failed \(61\)](#)[Aborted \(7\)](#)

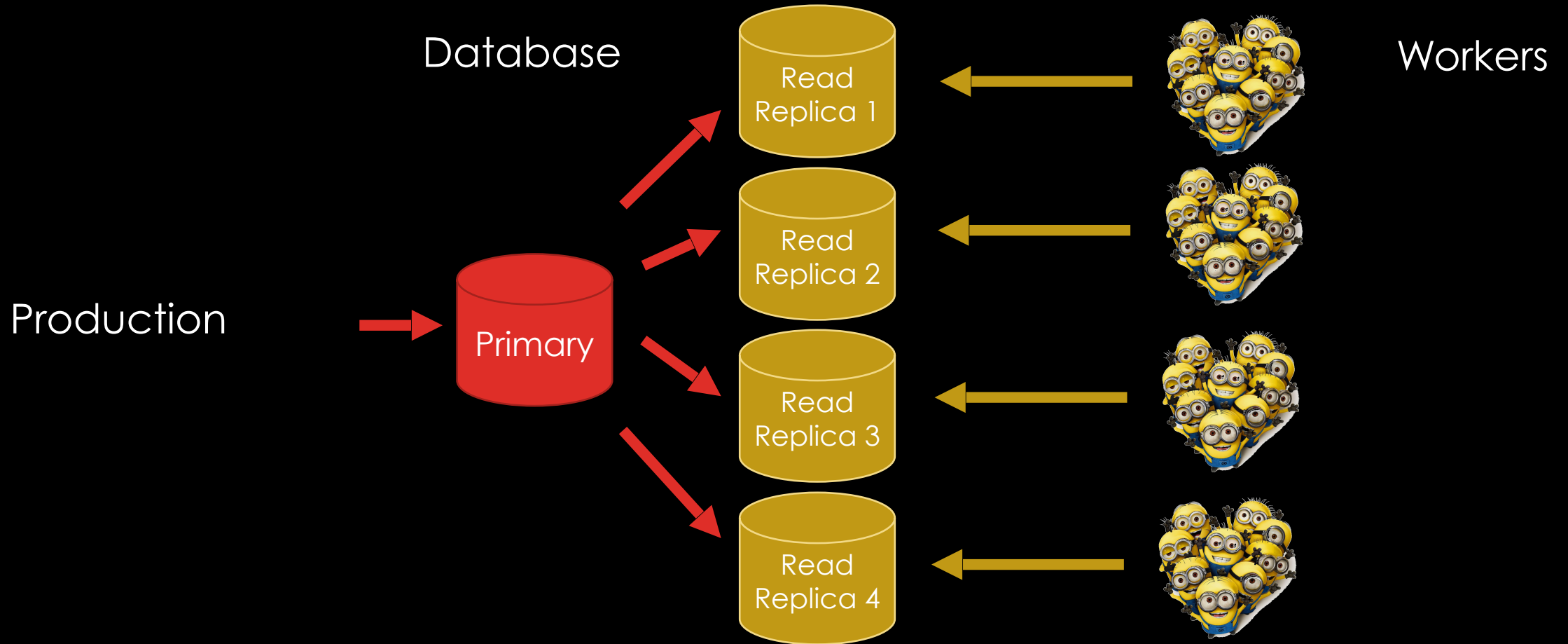
RocketJob::Jobs::UploadFileJob

State **failed**[Retry](#) [Abort](#) [Destroy](#) [Edit](#)**ID:** 5c921792a08f81dcb0da679f**Description:** bigpicture csv presentments: 20190320_ACHPresentment.csv**Duration:** 928ms**Created At:** 3/20/2019 6:36:02 am EDT**Started At:** 3/20/2019 6:36:02 am EDT**% Complete:** 0**Failed At:** 3/20/2019 6:36:03 am EDT**Collect Output:** false**Destroy On Complete:** true**Failure Count:** 1

Exception:

```
{
  "_id": {
    "$oid": "5c9217964de02cb2fc1a30f3"
  },
  "backtrace": [
    "class_name": "CSV::MalformedCSVError",
    "message": "Illegal quoting in line 1090.",
    "record_number": null,
    "worker_name": "cltapp4.clarity.net:24452:5"
  ]
}
```

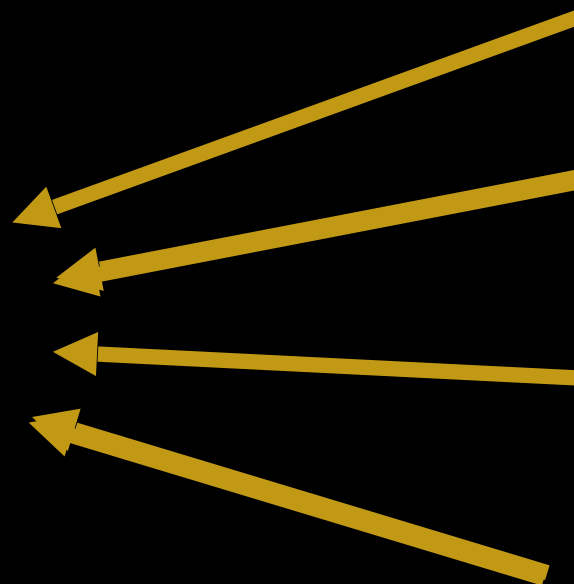
Read Only Jobs



Production



Database

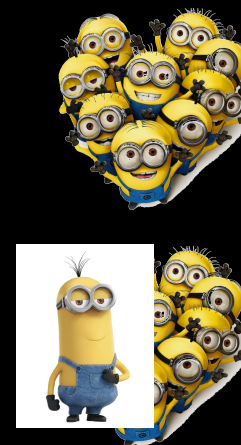


Write Jobs

Workers



Throttled Jobs



File Encryption

- Symmetric Encryption
 - Internal files.
 - AES-256 Encryption
 - <https://encryption.rocketjob.io>
- PGP Encryption
 - Common standard for file encryption.
 - Files sent/received with partners.
 - https://en.wikipedia.org/wiki/Pretty_Good_Privacy

PGP Encryption

- Inbound Files
 - Encrypted with our Public Key.
 - Most Jobs Supported.
 - Signed files.
- Outbound Files
 - Needs recipients public key.
 - Signed with our private key.
 - Readable?
 - If also encrypted with our public key.

Tabular Data

Name	Address	Zip Code
John Doe	21 Summit Ave	23456
Able James	20 Crescent St	34638

- IOStreams
 - iostreams.rocketjob.io

Tabular Formats

- CSV

```
name,address,zip_code  
John Doe,21 Summit Ave,1234567
```

- PSV

```
name | address | zip_code  
John Doe | 21 Summit Ave | 1234567
```

- JSON

```
{"name":"John Doe","address":"21 Summit Ave","zip_code":"1234567"}
```

- Fixed

```
John Doe      21 Summit Ave      1234567
```


Special Handling

Complex

- CSV

name,address,zip_code

John | Doe,"21 Summit

Ave","",1234567

Simple

- PSV

name | address | zip_code

John:Doe | 21 SummitAve" | 1234567

Verbose

- JSON

Cruel

{"name":"John | Doe","21 Summit\nAve\","", "zip_code":"1234567"}

- Fixed

John | Doe

21 SummitAve"

1234567

Role Based Access Control

Rocket Job Role	Privileges
User	View Only. Edit own jobs (login).
Dirmon	+ Create and manage Dirmon Entries.
Manager	+ Create and manage all jobs.
Operator	+ Manage Rocket Job Servers.
Editor	+ Edit failed job slices. (Access to PII)
Admin	+ Destroy jobs and dirmon entries.

Tips & Tricks

- Job is holding up others?
 - Lower its priority
 - Don't pause it
- The system is busy should I upload my large file?
 - Priority Based
 - Consider lowering the priority even further: 90

Q&A

- Questions?
- Feature Requests?