

Nick Murray - Data Product Design at Salesforce

The following screenshots showcase my work at Salesforce from 2019-2021. For any questions or other materials, please don't hesitate to contact me directly:

nicholasdmurray@gmail.com

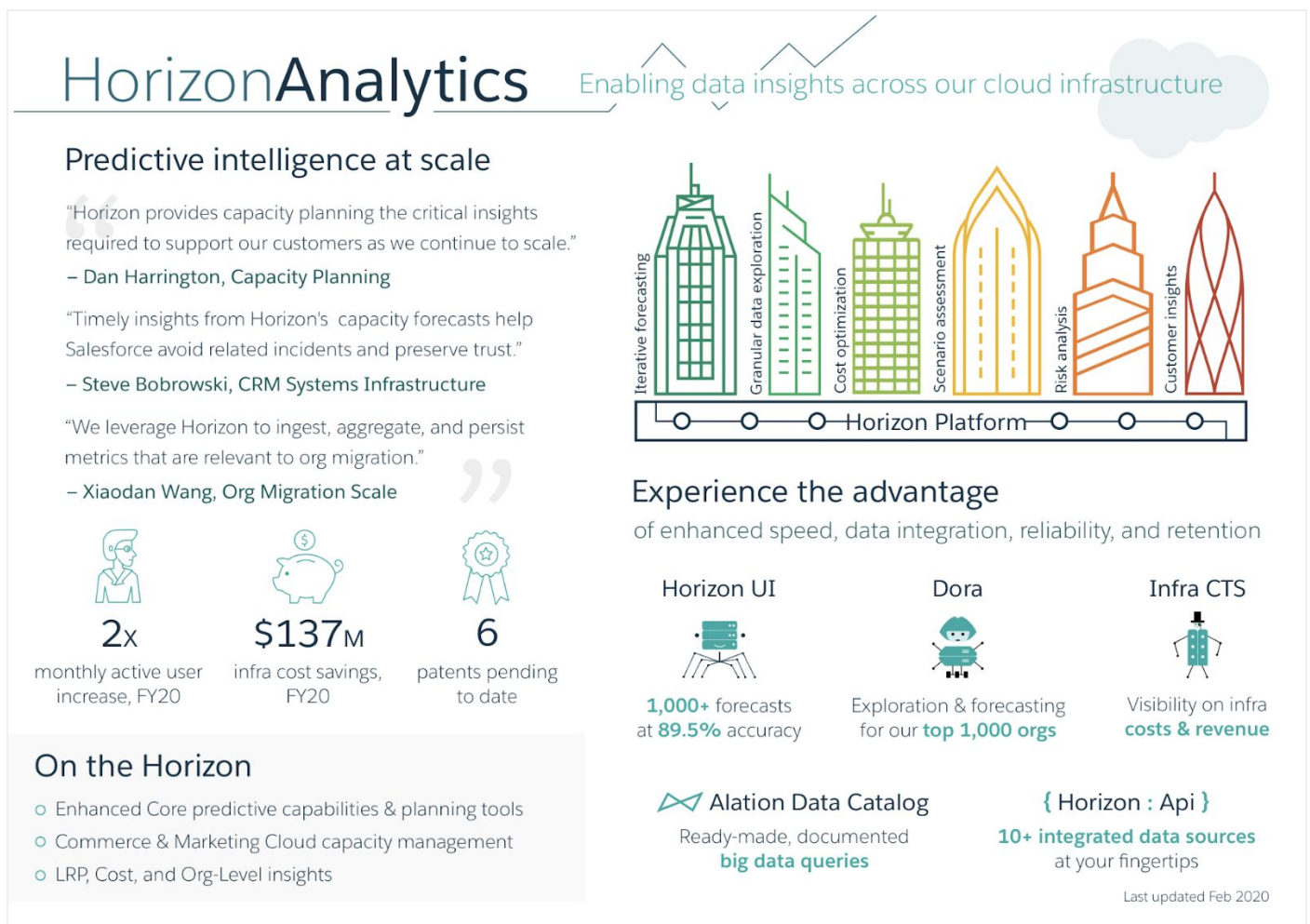
(917)-386-3609

<http://nickm.io>

Horizon Analytics - My Team at Salesforce

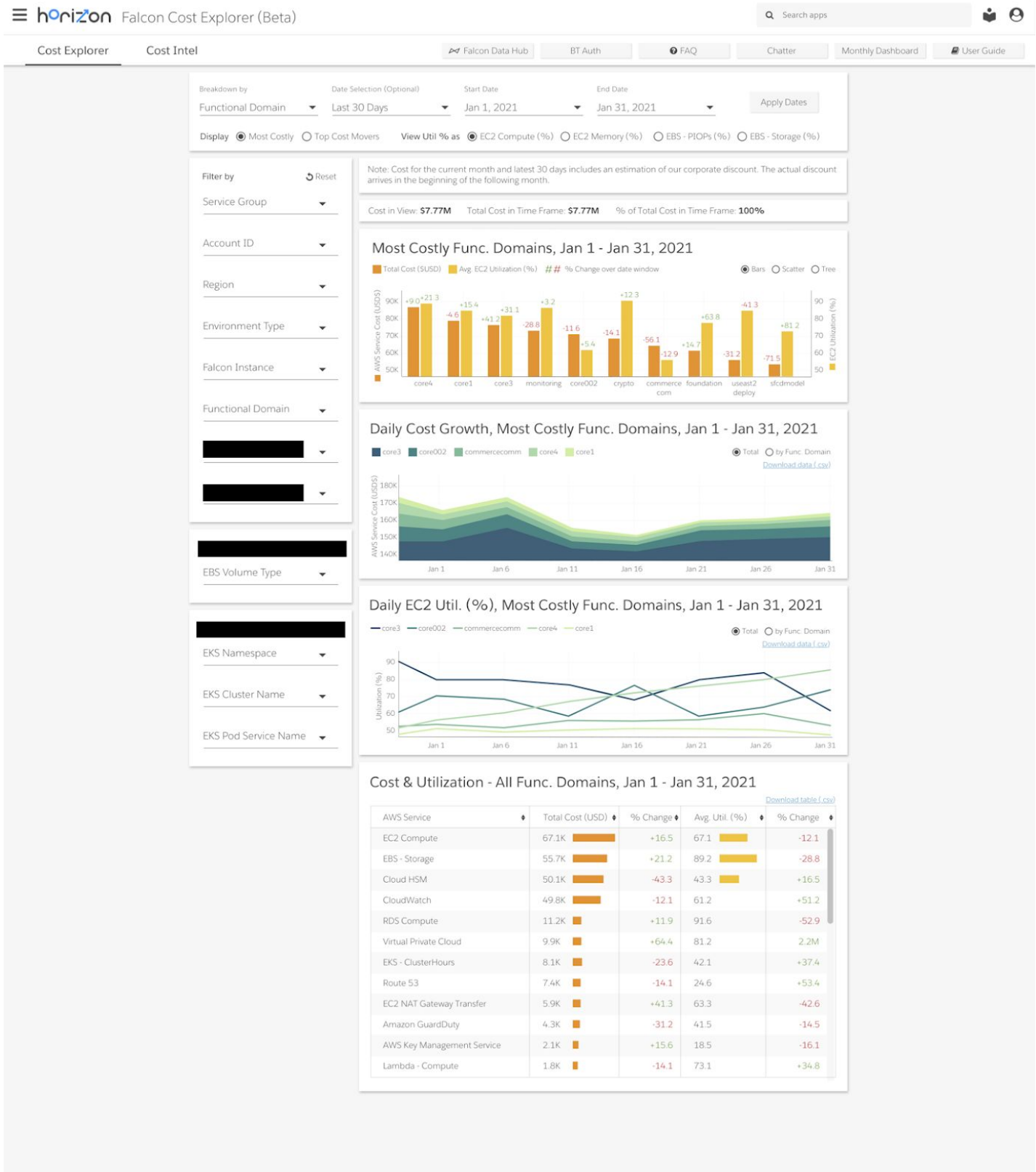
Our team delivers internal data products to thousands of infrastructure planners, executives, and engineers to ensure that Salesforce, its acquisitions, and any customer-developed apps function seamlessly in the cloud.

Team showcase infographic by Nick Murray, February 2020



Falcon Cost Explorer - Actively Managing Cloud Infrastructure Costs, Jan 2021

Purpose: Enable engineers in partnership with finance professionals to proactively grow the cost-efficiency of our cloud infrastructure fleet.



Breakdown by

Functional Domain

Date Selection (Optional)

Last 30 Days

Start Date

Jan 1, 2021

End Date

Jan 31, 2021

Apply Dates

Display

Most Costly

Top Cost Movers

View Util % as

EC2 Compute (%)

EC2 Memory (%)

EBS - PIOPs (%)

EBS - Storage (%)

Filter by

Reset

Service Group

Account ID

Region

Environment Type

Falcon Instance

Functional Domain

EBS Volume Type

EKS Namespace

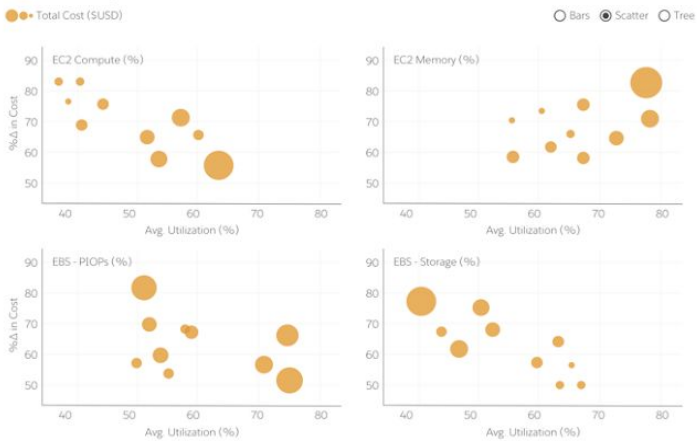
EKS Cluster Name

EKS Pod Service Name

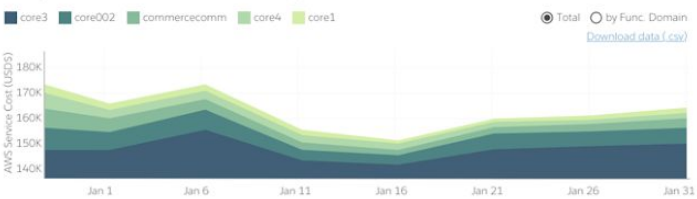
Note: Cost for the current month and latest 30 days includes an estimation of our corporate discount. The actual discount arrives in the beginning of the following month.

Cost in View: \$7.77M Total Cost in Time Frame: \$7.77M % of Total Cost in Time Frame: 100%

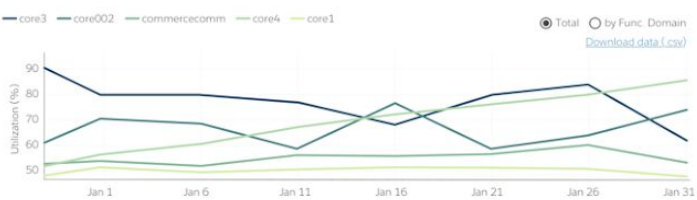
Most Costly Func. Domains, Jan 1 - Jan 31, 2021



Daily Cost Growth, Most Costly Func. Domains, Jan 1 - Jan 31, 2021



Daily EC2 Util. (%), Most Costly Func. Domains, Jan 1 - Jan 31, 2021



Cost & Utilization - All Func. Domains, Jan 1 - Jan 31, 2021

[Download table \(csv\)](#)

AWS Service	Total Cost (USD)	% Change	Avg. Util. (%)	% Change
EC2 Compute	67.1K	+16.5	67.1	-12.1
EBS - Storage	55.7K	+21.2	89.2	-28.8
Cloud HSM	50.1K	-43.3	43.3	+16.5
CloudWatch	49.8K	-12.1	61.2	+51.2
RDS Compute	11.2K	+11.9	91.6	-52.9
Virtual Private Cloud	9.9K	+64.4	81.2	2.2M
EKS - ClusterHours	8.1K	-23.6	42.1	+37.4
Route 53	7.4K	-14.1	24.6	+53.4
EC2 NAT Gateway Transfer	5.9K	+41.3	63.3	-42.6

Breakdown by

Functional Domain

Date Selection (Optional)

Last 30 Days

Start Date

Jan 1, 2021

End Date

Jan 31, 2021

Apply Dates

Display

☒ Most Costly

☐ Top Cost Movers

View Util % as

☒ EC2 Compute (%)

☐ EC2 Memory (%)

☐ EBS - PIOPs (%)

☐ EBS - Storage (%)

Filter by

Reset

Service Group

Account ID

Region

Environment Type

Falcon Instance

Functional Domain

EBS Volume Type

EKS Namespace

EKS Cluster Name

EKS Pod Service Name

Note: Cost for the current month and latest 30 days includes an estimation of our corporate discount. The actual discount arrives in the beginning of the following month.

Cost in View: **\$7.77M** Total Cost in Time Frame: **\$7.77M** % of Total Cost in Time Frame: **100%**

Most Costly Func. Domains, Jan 1 - Jan 31, 2021

■ Total Cost (USD)

☐ Bars

☐ Scatter

☒ Tree

core4

\$86.45k

core1

\$66.76k

core3

\$41.32k

monitoring

\$32.14k

core002

\$26.75k

core3

\$41.32k

crypto

\$11.21k

...

...

...

Daily Cost Growth, Most Costly Func. Domains, Jan 1 - Jan 31, 2021

■ core3

■ core002

■ commercecomm

■ core4

■ core1

☒ Total

☐ by Func. Domain

[Download data \(.csv\)](#)

Daily EC2 Util. (%), Most Costly Func. Domains, Jan 1 - Jan 31, 2021

■ core3

■ core002

■ commercecomm

■ core4

■ core1

☒ Total

☐ by Func. Domain

[Download data \(.csv\)](#)

Cost & Utilization - All Func. Domains, Jan 1 - Jan 31, 2021

[Download table \(.csv\)](#)

AWS Service	Total Cost (USD)	% Change	Avg. Util. (%)	% Change
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EBS - Storage	55.7K	+21.2	89.2	-28.8
Cloud HSM	50.1K	-43.3	43.3	+16.5
CloudWatch	49.8K	-12.1	61.2	+51.2
RDS Compute	11.2K	+11.9	91.6	-52.9
Virtual Private Cloud	9.9K	+64.4	81.2	2.2M
EKS - ClusterHours	8.1K	-23.6	42.1	+37.4
Route 53	7.4K	-14.1	24.6	+53.4
EC2 NAT Gateway Transfer	5.9K	+41.3	63.3	-42.6
Amazon GuardDuty	4.3K	-31.2	41.5	-14.5
AWS Key Management Service	2.1K	+15.6	18.5	-16.1
Lambda - Compute	1.8K	-14.1	73.1	+34.8

horizon

Falcon Cost Explorer (Beta)

Search apps



Cost Intel

 Falcon Data Hub

BT Auth

FAQ

Chatter

Monthly Dashboard

 User Guide

Date Selection (Optional)

Start Date

End Date

Last 30 Days

Feb 1, 2021

Feb 28, 2021

Apply Dates

Filter by

Reset

Service Group

Account ID

Region

Environment Type

Falcon Instance

Functional Domain

Aggregate Cost Spikes by

Summarize Cost Spikes by

Min. Cost Δ

Total Cost Δ

+/- \$3,000

[Download table \(.csv\)](#)

FI

FD

Service Group

Env.

AWS Service

Cell Count

Event Date

\$Δ in Cost

Status

^

AWS-prod1-us..

core1

sdb

prod1

EC2 Compute

8

02.07.21

+16.1k

New

Total Cost

Non-Business Hours

Total Cost

Feb 3

Feb 5

Feb 7

Feb 9

Feb 11

Total Cost Δ: +\$16,125

%Δ in Cost: +256%

Status: Triaged

[Edit](#)

Notes:

Last updated 2.9.21, 2:26PM PST

[Edit](#)

Looks to be a result of onboarding our new FD, largely activity driven. SDB team is currently investigating for more detail.

[Cost Explorer](#)

[AWS Console](#)

✓

AWS-prod1-us..

core2

ciac

perf1

EBS PIOPs

9

02.18.21

+12.0k

New

✓

AWS-prod1-us..

core2

ciac

perf1

AWS Lambda

4

02.01.21

+11.7k

New

✓

AWS-prod1-us..

core2

ciac

perf1

AWS CloudHSM

6

02.03.21

-3.2k

Irrelevant

✓

AWS-prod1-us..

core2

Hbase

perf1

EC2 Compute

8

02.14.21

-3.6k

New

✓

AWS-prod1-us..

core2

Hbase

perf1

EBS PIOPs

10

02.11.21

-4.1k

Triaged

✓

AWS-prod1-us..

core2

Hbase

test1

EBS Storage

6

02.04.21

-4.4k

Irrelevant

✓

AWS-prod1-us..

core2

Hbase

test1

EC2 Transfer

6

02.05.21

-4.6k

Irrelevant

Cost Alerting Wireframe v1

Purpose: Interface to communicate relevant cost anomalies, & their impact on FD-level budgets. 'User Driven' and 'Software Driven' metrics designed to support decisions on how to respond to any observed anomalies

Horizon Navbar

This is a tab in our existing Daily Cost Dashboard

Cost Explorer

Cost Intel

Falcon Data Hub

BT Auth

FAQ

Chatter

Monthly Dashboard

User Guide

Minimum \$ amount of alerts in view. Includes pre-canned values such as 25%, 50%, and 100% of daily total cost.

Min \$ amount

Alert Severity

Date range start

to

Date range end

Filter by

Service Group

Account ID

Region

Environment Type

Falcon Instance

Functional Domain

AWS Service

Based on rankings we generate. Assists users who may not yet know what \$ amounts or % changes in cost they're interested in yet.

Breakdown defaults to FD & Service, speaking to the budget tracking use case. Ideally this can ultimately include 'PID Leader' as an option. (Finance) Region, and role will also be commonly used breakdown dimensions (EF, KW).

Click any row in the anomalies table to filter all charts

Cost Anomalies

Click a table row to filter all charts.

Breakdown by

Functional Domain

Secondary Dimension

Service Group

FD	Service Group	\$ Amt.	%Δ	Event Date	Details
Foundation	Hbase	+\$56.1k	+102	12.21.20	AWS Console
Foundation	Hbase	+\$56.1k	+102	12.21.20	AWS Console
Foundation	Hbase	+\$56.1k	+102	12.21.20	AWS Console
Foundation	Hbase	+\$56.1k	+102	12.21.20	AWS Console
Foundation	Hbase	+\$56.1k	+102	12.21.20	AWS Console
Foundation	Hbase	+\$56.1k	+102	12.21.20	AWS Console
Foundation	Hbase	+\$56.1k	+102	12.21.20	AWS Console

User-Driven Metrics: Foundation

Software-Driven Metrics: Foundation

Anomaly Details

Was this useful?

View by

Total cost

Growth rate (%)

Foundation Cost, Daily Total: 12/19 - 12/23

Event Window

Quarterly Budget

Cost (\$)

Dec 19

Dec 20

Dec 21

Dec 22

Dec 23

Cost By Service, Daily Total, Foundation

Event Window

Cost (\$)

Dec 19

Dec 20

Dec 21

Dec 22

Dec 23

Expand to view contextual data. Purpose is to aid root cause analysis and inform next steps. (EF, KW) (e.g. Snoopy)

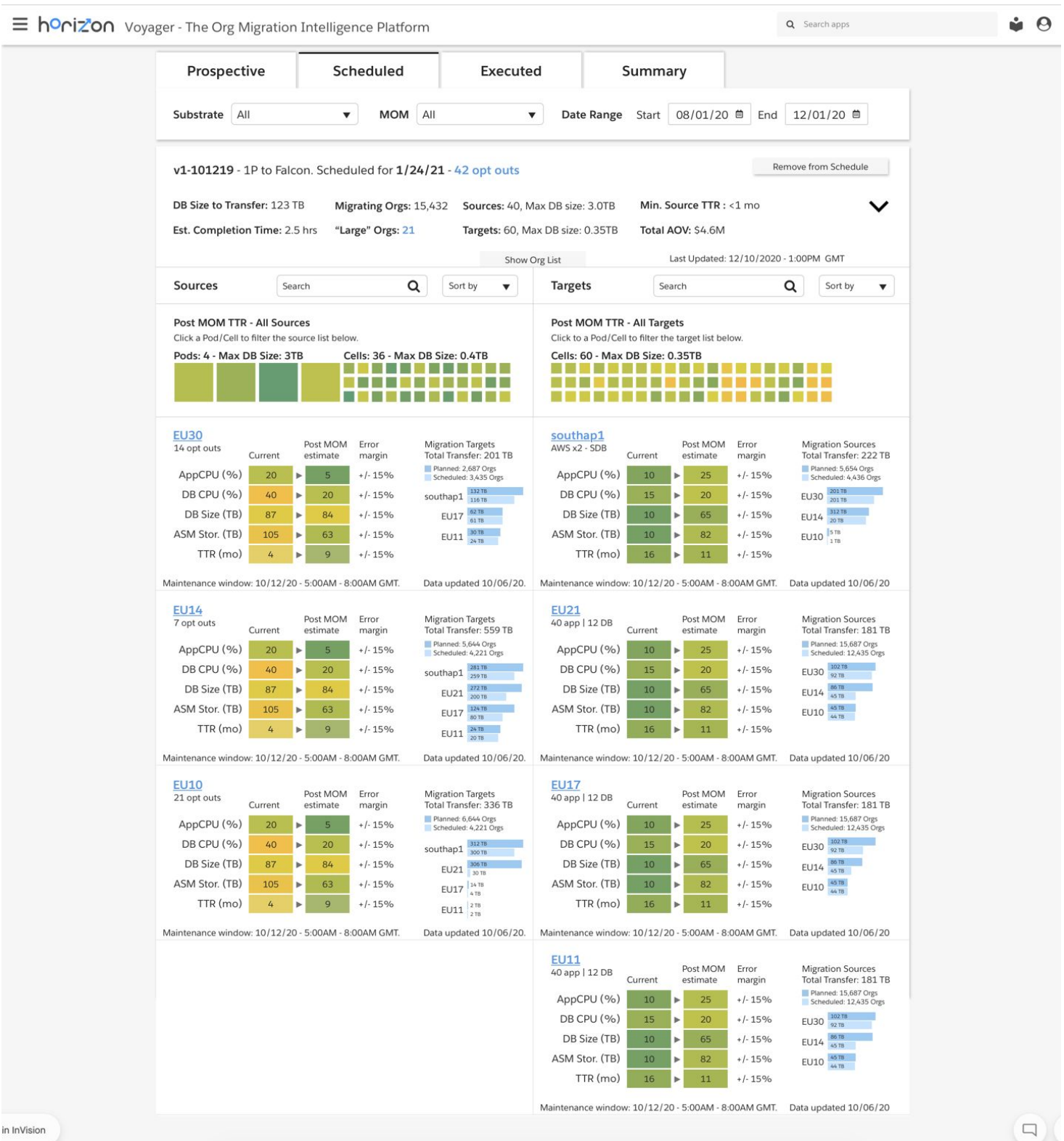
K. Wakim's suggestion, a quick feedback mechanism to hone our alerting system

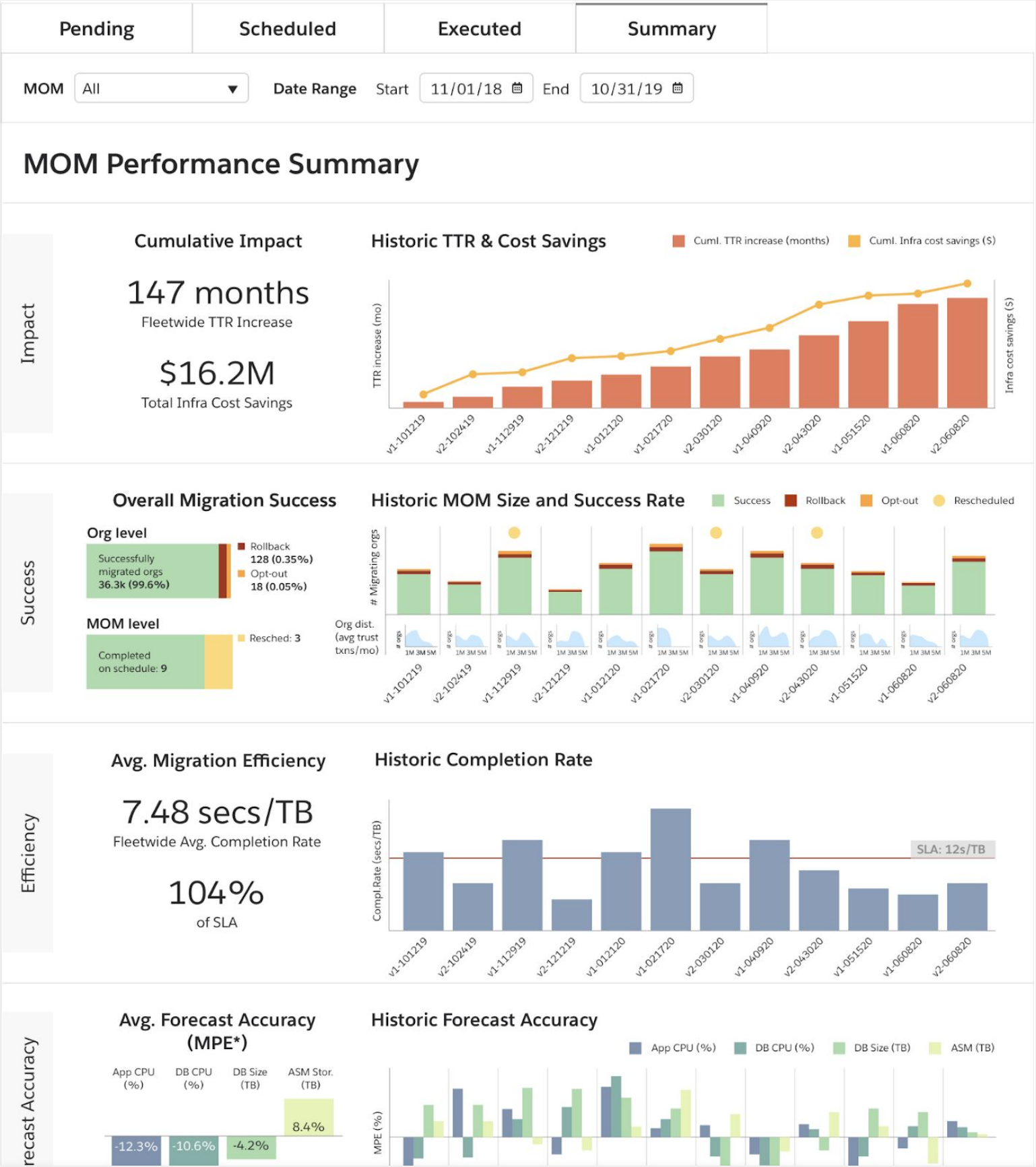
Breakdown defaults to FD, as this is the level at which budgets are set.

Secondary dimension defaults to Service Group, as Service Owners will be curious of their contribution to overall FD budget (Finance)

Voyager - Managing Customer Cloud Migration, Nov 2020 - Present

Purpose: Enable customer-centric engineers to effectively manage the migration of Salesforce customers to new cloud infrastructure of ever increasing performance, security, and reliability.

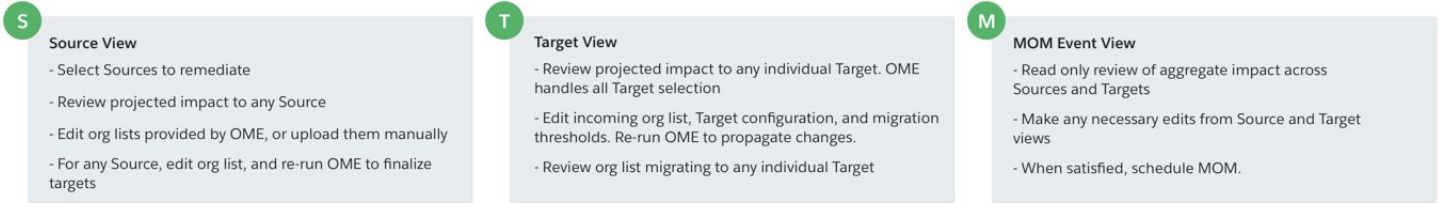




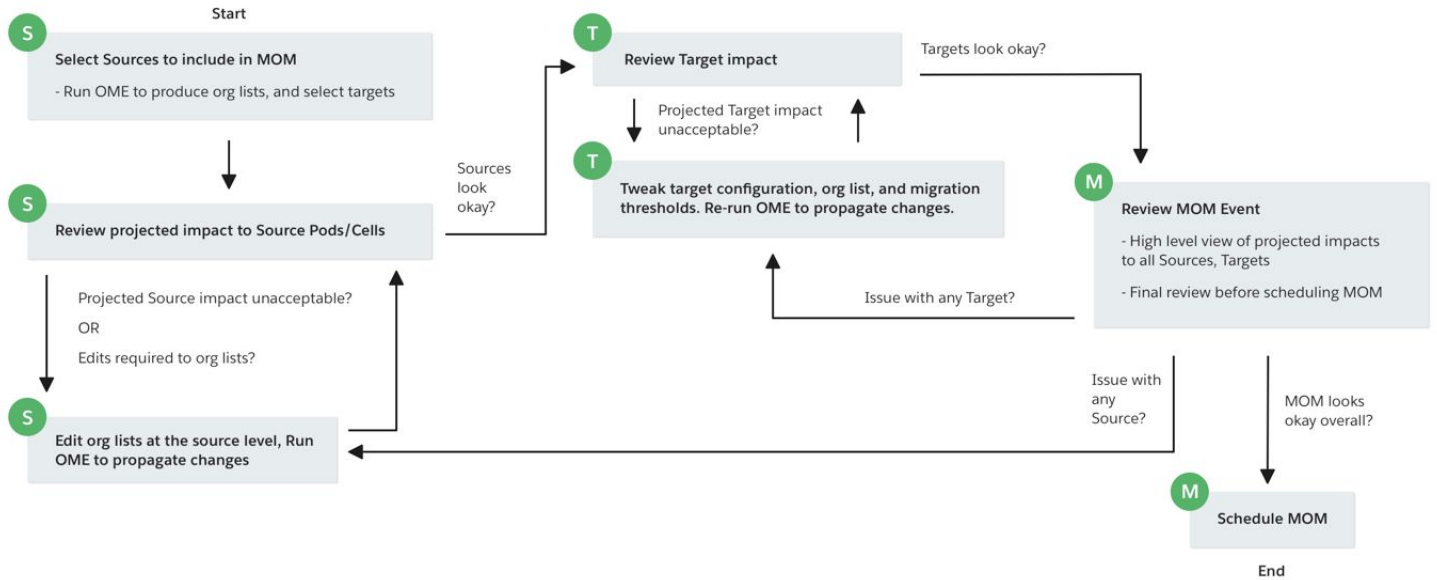
'MOM App' for planning and scheduling MOMs

Click any ● to view the associated wireframe.

Three Views



User Journey





Horizon Navbar

View by ☐ MOM Event ☐ Target ☒ Source

Date Range

Substrate

MOM ID

+ Add Source

Run OME for all Sources

EU15

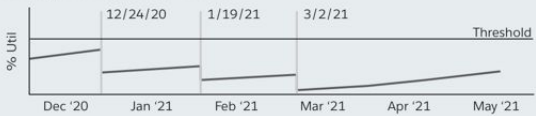
Total Migrating Orgs: 11,231

Total AOV: \$2.45M

TTR: 1 mo

Next MOM Date: 12/24/20

Binding TTR Metric: App CPU %



New Org List (.csv)

Re-run OME

Remove Source

Last Updated: 11/10/2020 - 1:00PM GMT

Org List

Download Org List (.csv)

Forecast end date

End date

Pending MOMs

# Orgs	MOM Date	Target
2,342	12/24/20	southap1
1,465	01/19/20	southap1
4,561	03/02/21	southap1

App CPU %: <Forecast Date Start> - <Forecast Date End>



DB CPU %: <Forecast Date Start> - <Forecast Date End>



DB Size: <Forecast Date Start> - <Forecast Date End>



Static chart, unaffected by user input to forecast date range. Becomes multi-line chart in cases with more than one binding metric

Expand to view full org list

Starting with binding TTR metric, more detailed charts, additional details TBD. X axes update based on user inputs to forecast date range

User generated, though ultimately will be automated in OME. Includes OrgIDs, and migration dates. OME generates target for each org. Replace by uploading new list and re-running OME.

Determines forecast date range in time series to the right

Generated automatically based on org list (org list includes migration dates)



Horizon Navbar

View by ☐ MOM Event ☒ Target ☐ Source

Date Range

Substrate

MOM ID

Set config parameters for all Targets

Run OME for all Targets

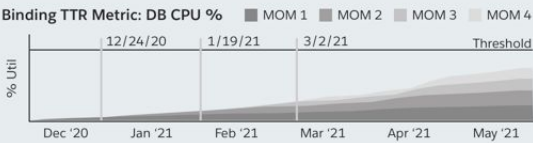
southap-1

Total Migrating Orgs: 9,432

Total AOV: \$1.86M

TTR: 6 mo

Next MOM Date: 12/24/20



New Org List (.csv)

Re-run OME

FME

Last Updated: 11/10/2020 - 1:00PM GMT

Static chart, unaffected by user input to forecast date range. Becomes multiple charts (scrollable) in cases with more than one binding metric

Org list edits can take place here, as well as in the Source view

Org List

Download Org List (.csv)

Expand to view/edit full org list

Resembles FME's 'Cell Config' and 'Threshold config' menus. Any targets with unique configurations relative to the rest of the target list will be flagged (in the target list).

Forecast end date

End date

Target Config

Threshold Config

Pending MOMs

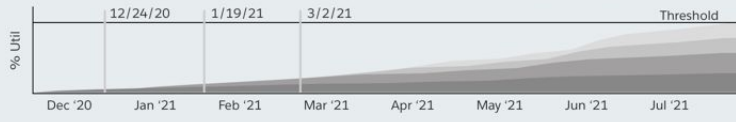
# Orgs	MOM Date	Source
2,342	12/24/20	EU30
1,465	01/19/21	EU15
4,561	03/02/21	EU11

Generated automatically based on migration dates included in org list.

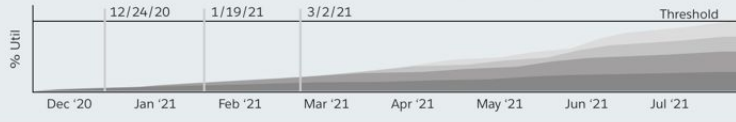
DB CPU %



App CPU %



DB Size (TB)



Starting with binding TTR metric, more detailed charts, additional details TBD. X axes update based on user inputs to forecast date range



Horizon Navbar

View by ☒ MOM Event ☐ Target ☐ Source

Date Range

Substrate

MOM ID

v1-101219 - 1P to Falcon

Migrating Orgs: 14,322

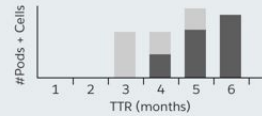
Total AOV: \$3.58M

Min (source) TTR: 1 mo

Pre-MOM



Post-MOM (Forecast)



Schedule MOM

Last Updated:
11/10/2020 - 1:00PM GMT

Org List

Download Org List (.csv)

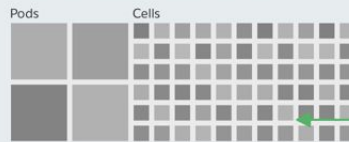
Forecast end date

End date

Post MOM TTR Summary (Forecast)

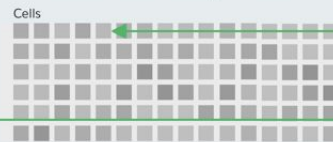
Source-Level TTR

Click a Pod/Cell to filter the source list below.



Target-Level TTR

Click to a Pod/Cell to filter the target list below.



Sources

Search



Sort by

EU10

21 opt outs

	Current	Post MOM estimate	Error margin
AppCPU (%)	20	5	+/- 15%
DB CPU (%)	40	20	+/- 15%
DB Size (TB)	87	84	+/- 15%
ASM Stor. (TB)	105	63	+/- 15%
TTR (mo)	4	9	+/- 15%

Targets

Search



Sort by

southap1

AWS x2 - SDB

	Current	By forecast end date	Error margin
AppCPU (%)	10	25	+/- 15%
DB CPU (%)	15	20	+/- 15%
DB Size (TB)	10	65	+/- 15%
ASM Stor. (TB)	10	82	+/- 15%
TTR (mo)	16	11	+/- 15%

Affects the post MOM TTR Summary, and the forecasts provided at the source/target level below it. View is almost entirely read only. No ability to edit org lists (this happens from the Source view). No ability to edit thresholds/cell config (this happens from the Target view)

Expand to view full org list. Read only. Edit via Source view

A herd of cattle. Click any pod/cell to filter the Target list below

Same for the source list, click any Pod/Cell to filter the list below

Click to link to source in app's Source view

Click to link to target in app's Target view

LRP Builder - Long Term Infrastructure Build Planning, Jul 2020

Purpose: Enable executives and capacity planners to run infrastructure build scenarios, to support the development of our infrastructure long range plan (LRP).

LRP Builder (Beta)

"Plan of Record" - Last updated 2.28.20, 4:10PM PST

[Download Underlying Data \(.csv\)](#) [Download Charts \(.png\)](#)

Supply & Demand

Infra Cost

NA

EMEA

APAC

GS

UM

All

LRP Setup

Run

Model Component

Demand

Run

Operating Buffer

Currently 10%

Lightning Adoption

90.3% by Jan 1, 2025

Date	Change	Cuml. Total
Jan 1, 2020	+6.0%	18.3%
Jul 1, 2020	+6.0%	24.3%
Jan 1, 2021	+6.0%	30.3%
Jul 1, 2021	+6.0%	36.3%
Jan 1, 2022	+6.0%	42.3%
Jul 1, 2022	+6.0%	48.3%

Save

Load

Confirm

Lightning Coefficient

4.5% as of July 1, 2021, currently 6.4%

Regression Impact

10.0% as of Jan 1, 2020

Supply

Run

Operating Buffer

Currently 10%

Substrate Distribution

90.3% PC adoption by Jan 1, 2025

Hardware Efficiency Gain

4.9% as of Jan 1 2020

<

App CPU Util.

DB CPU Util.

FFX

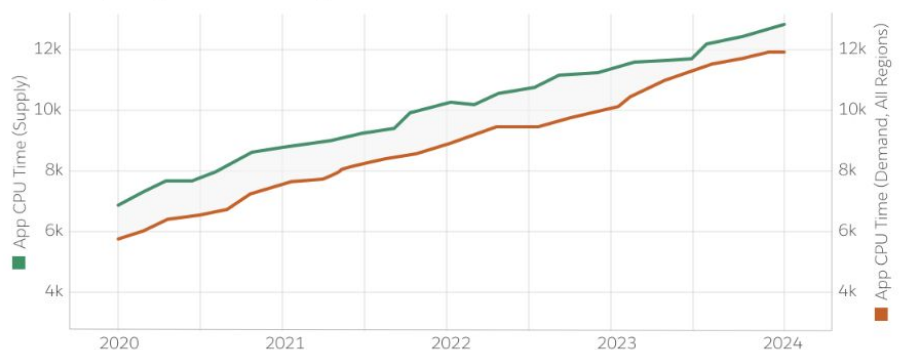
DB Storage

Supply/Demand Outlook

Business ☒ Core ☐ CC ☐ MC Substrate ☒ 1st Party ☐ Falcon Type ☒ Prod ☐ SBX/test
Unit ☒ App CPU Time ☐ Cores Show ☒ Total ☐ by Region

Supply (Baseline)* Demand (Baseline)

*Based on operating threshold of 40% App CPU Util.



Pod Build Outlook

New Pod Builds IRs (Decoms)



LRP Builder (Beta)

"Plan of Record" - Last updated 2.28.20, 4:10PM PST

[Download Underlying Data \(.csv\)](#) [Download Charts \(.png\)](#)

Supply & Demand

Infra Cost

NA

EMEA

APAC

GS

UM

All

LRP Setup

Run

Model

Component

Demand

Run

Operating Buffer

Currently 10%

Lightning Adoption

90.3% by Jan 1, 2025

Lightning Coefficient

4.5% as of July 1, 2021, currently 6.4%

Regression Impact

4.1% as of Feb 1, 2022, currently 10.0%

Supply

Run

Operating Buffer

Currently 10%

Substrate Distribution

90.3% PC adoption by Jan 1, 2025

Hardware Efficiency Gain

4.9% as of Jan 1 2020

Date

Value

Jan 1, 2020

4.9%

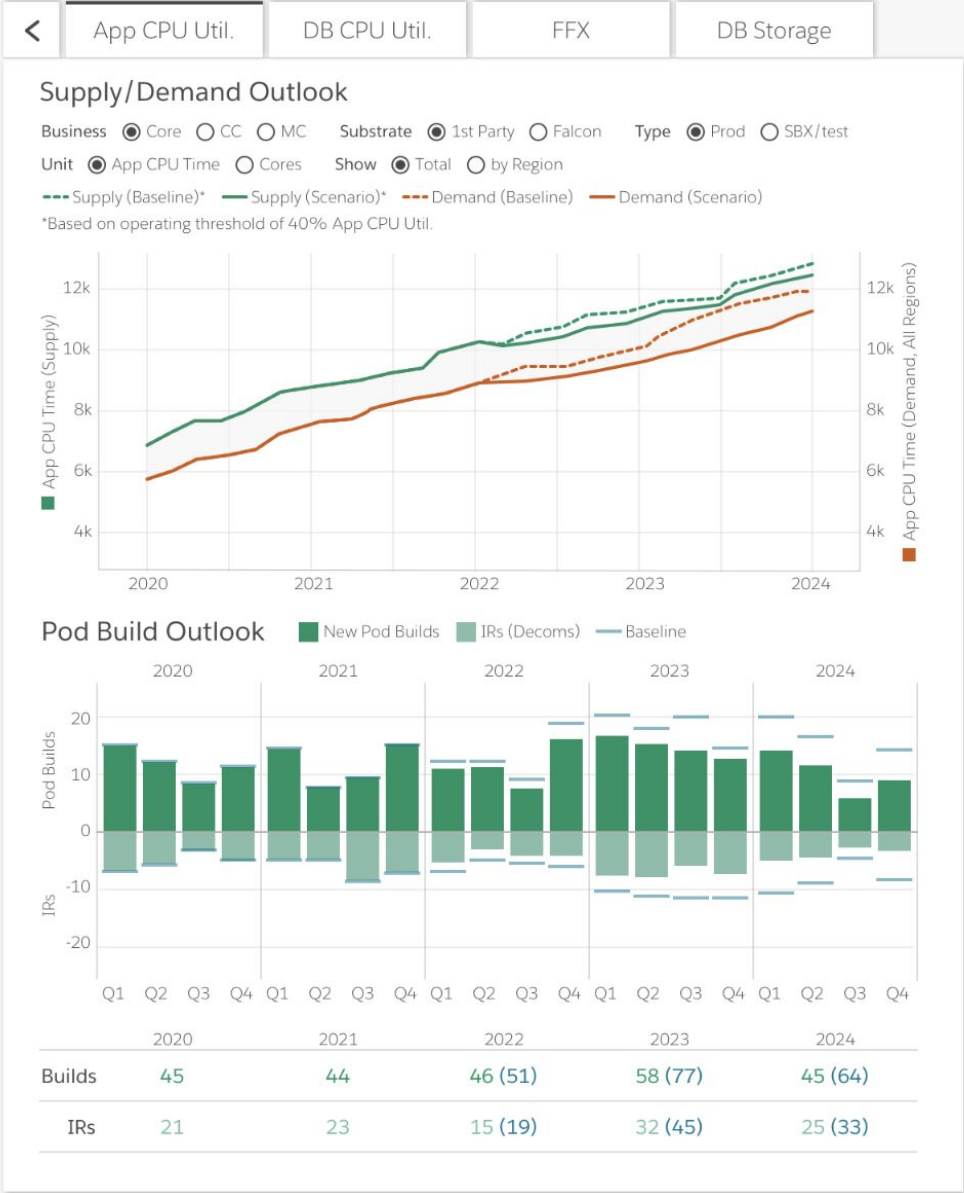
+

-

Save

Load

Confirm



Automated Release Regression Analysis, Feb-March, 2020

Purpose: Enable performance engineers at Salesforce to monitor the impact of new software releases on our infrastructure fleet, informing real-time performance tuning efforts.

Capacity Impact of Major Releases (Beta)

Release Impact

Dynamic Modelling

AboutCode

View impact on:

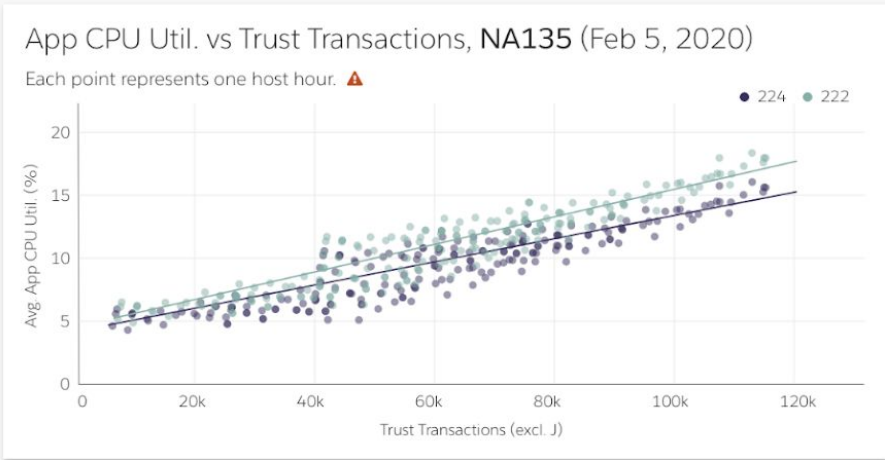
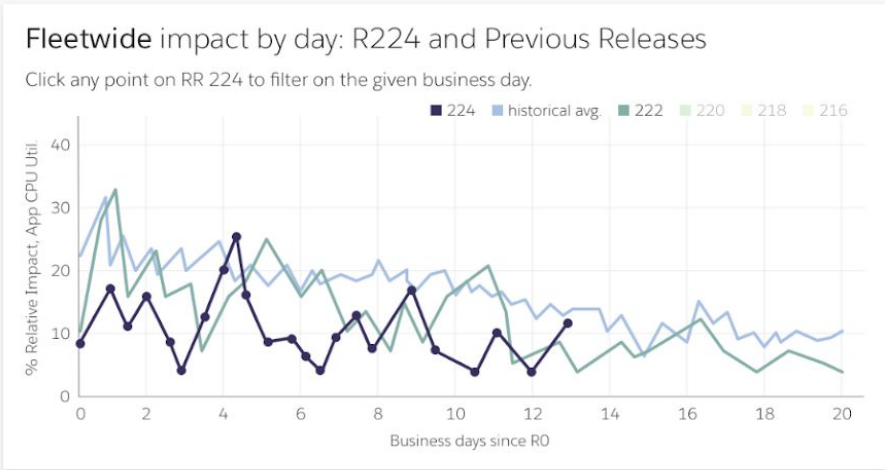
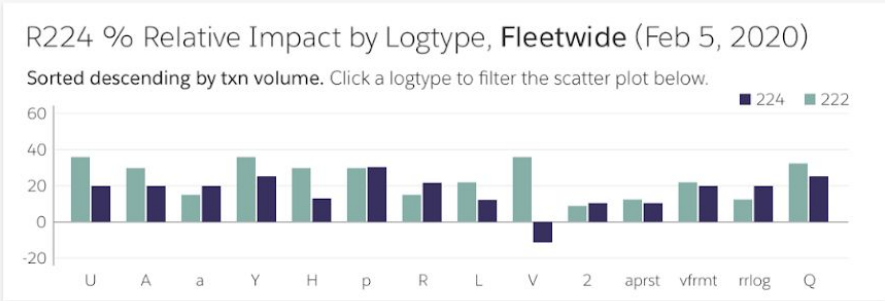
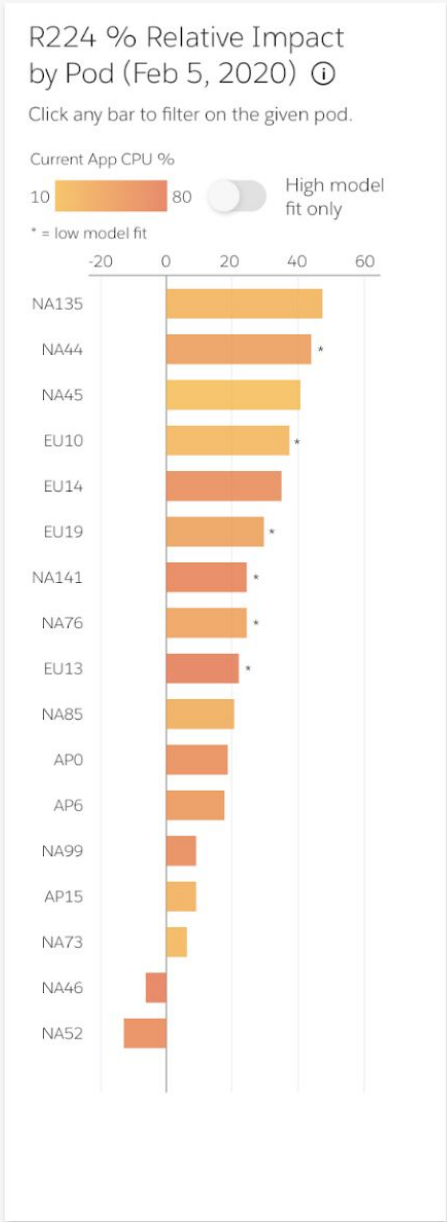
Normalize impact by:

Release group:

Avg. App CPU Util.

Trust Transactions (Excl. J)

All



Dynamic Modelling across Date Windows

[Release Impact](#)[Dynamic Modelling](#)[About](#) [Code](#)

View impact on:

Avg. App CPU Util. ▼

Normalize impact by:

Trust Transactions (Excl. J) ▼

Date Window A*:

2/10/19 - 2/24/19 ▼

Date Window B*:

11/2/19 - 11/16/19 ▼

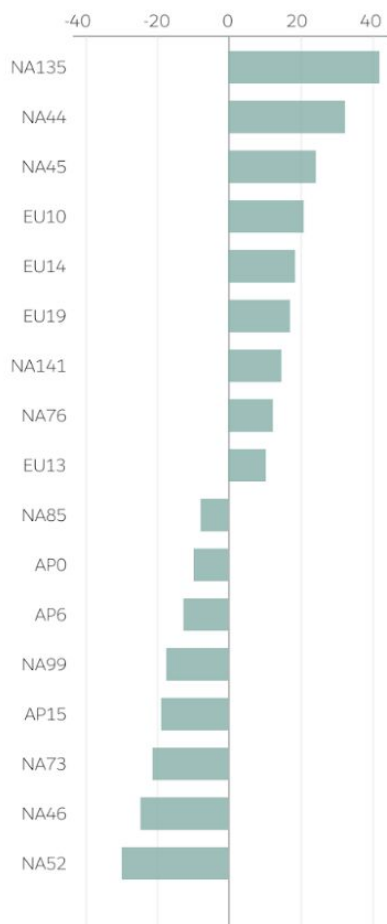
*Business hours only

% Diff in Avg. App CPU Util. per Txn, all Logtypes

Click any bar to filter on the given pod.



High model fit only



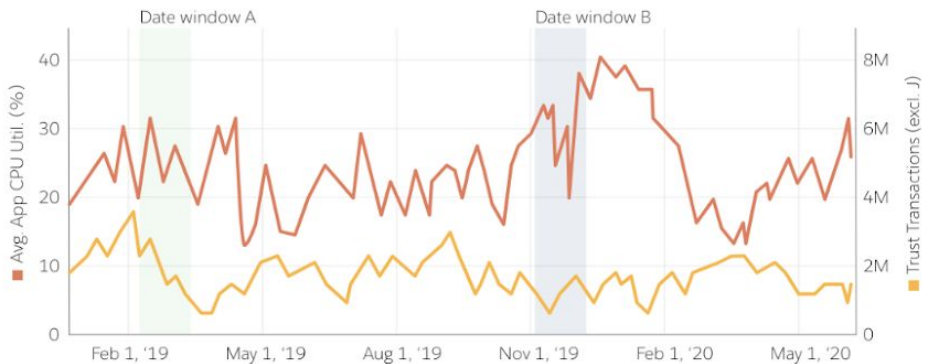
% Diff in App CPU Time per Txn, by Logtype, R0

App CPU Time sourced from app logs. Click any logtype to filter the charts below.



App CPU Util. vs Trust Txns, R0

Drag shaded areas to adjust date windows.



App CPU Util. vs Trust Txns, R0

Each point represents one host hour.



Sherlock - Anomaly Detection and Triage, Dec-Jan, 2020

Purpose: Enable capacity planners to detect, triage, and take action on any customer and/or software driven anomalies occurring across our fleet of infrastructure.



App CPU Time Anomalies

View Sandbox **Prod** Business Hours Only Filter rows

Severity	Pod	Type	Relationship	Start	End
High	NA7	Level shift	Transactions	10-28-19	10-30-19
High	EU15	Slope Δ	Org count	10-21-19	10-24-19
Med	EU10	Level shift	Release	11-09-19	11-10-19
Med	AP0	Spike	Release	09-30-19	10-02-19
Med	NA44	Slope Δ	Transactions	10-14-19	10-17-19

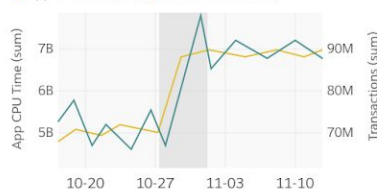
NA7 - Anomaly Details

App CPU time on NA7 experienced a **level shift upwards** between **Oct 28th and Oct 30th**. **Transactions** on the Pod also saw a level shift in this time period.

NA7 - Observed Level Shift & APT Impact

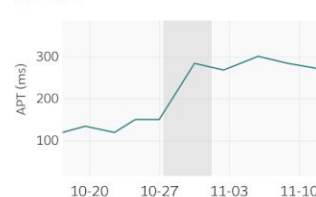
App CPU Time vs Transactions

■ App CPU Time (sum) ■ Transactions (sum)



APT (ms)

■ APT (ms)



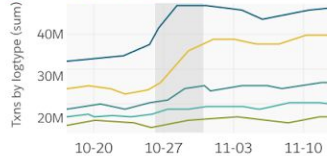
NA7 - Load Driving Metrics

Fastest growing orgs on NA7
(of top 20), by transactions

CANON MARKETING SERVICES	97.0%
Sirius Computing	74.0%
Younique	91.0%
Drift	73.0%
Chase Metals	46.0%

Transactions (sum) by Logtype*

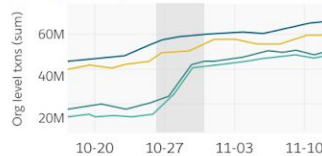
■ All txns ■ U ■ V ■ A ■ aprst



*Limited to most CPU heavy logtypes

Transactions (sum) by Org

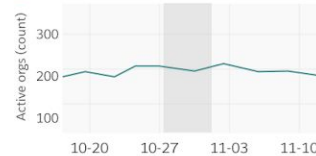
■ All ■ Top 20* ■ Top 5* ■ Top 1*



*by +%Δ in txns

Active Orgs (Count)

■ Active orgs (count)



NA7 - Software Driving Metrics

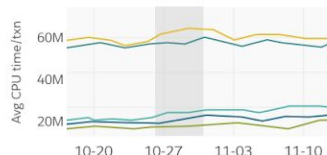
Transacting Hosts

Transacting hosts: 30

DELL - POWEREDGE...	17.1 SSKUC:	27
DELL - POWEREDGE...	17.2 SSKUC:	3

App CPU time by Logtype* (Avg)

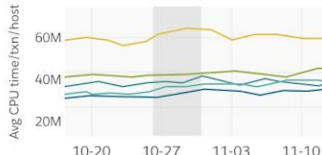
■ U ■ V ■ A ■ All types ■ vfrmt



*Limited to most CPU heavy logtypes

App CPU time by Host (Avg)

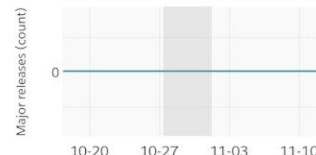
■ Host 1 ■ Host 2 ■ Host 3 ■ Host 4 ■ Host 5



*Limited to most CPU heavy hosts

Major Releases (count)

■ Major releases (count)



Falcon Migration Explorer - Scenario Forecasting for Effective Customer Migration, Jun 2020

Purpose: Enable executives and capacity planners to effectively tweak, run, and review forecasted customer migration scenarios, to support the smooth transition of our users to more efficient, reliable cloud environments.

Falcon Migration Explorer (Beta)

Display Start
Dec 1, 2020

Display End
Aug 1, 2022

Load Rollout Plan

User Guide

Wave Config

Cell Config

Cell Thresholds

Oracle (DB CPU%)

Migration Cutoff 30%

Perf. Threshold 55%

SDB (DB CPU %)

Migration Cutoff 30%

Perf. Threshold 55%

App CPU %

Migration Cutoff 30%

Perf. Threshold 55%

Storage Limits (TB)

Oracle 85

SDB 60

Apply

Capacity Modifiers

Sign Ups Config

Inputted Org List for Migration

Migration Summary

Destination Cells: 10

Show Cell: Australia

Include Lightning Adoption

Wave	Cell	DB Type	# Orgs	Cuml # Orgs	DB CPU Time (sum daily P95)			App CPU Time (sum daily P95)			DB Storage (sum, TB)		
					Total DBCPU Time	Cuml DBCPU Time	% of DBCPU Op. Threshold	Total AppCPU Time	Cuml AppCPU Time	% of AppCPU Op. Threshold	Total DBStor (TB)	Cuml DBStor (TB)	% of AppCPU Op. Threshold
1	Australia	Oracle	70	70	659M	659M	50%	348M	348M	46%	0.34	0.34	34%
2	Australia	Oracle	110	180	151M	810M	80%	429M	777M	62%	0.27	0.61	51%
3	Australia	Oracle	240	520	456M	1.27B	95%	376M	1.15B	81%	0.81	1.42	64%
4	Australia	Oracle	210	730	354M	1.62B	96%	566M	1.72B	86%	0.42	1.82	73%
5	Australia	SDB	320	1,050	786M	2.41B	99%	433M	2.15B	89%	0.11	1.95	79%

Forecast

Additional Cells Required 2

Select Metric: DB CPU Time

View as Falcon Cell

Metric	# Orgs Breaching Op. Threshold	Performance Overflow %
DB CPU Time	5	42.1%
App CPU Time	2	21.3%
DB Storage	1	11.6%

DB CPU Time Forecast: Australia



Org Level Forecasts: DB CPU Time

Search by OrgID

Export (.csv)

Wave	Cell	Account Name	OrgID	Org Edition	AOV Band	P95 Historical AppCPU Time	P95 Historical DBCPU Time	Current 1P P95 DBCPU Time	Current Falcon P95 DBCPU T (7 day max)	Latest Lightning Adoption %	P95 1Yr Falcon Forecasted DB CPU Time (w/ Lightning)	P95 1Yr Falcon Forecasted DB CPU Time (w/o Lightning)	Forecast % of DBCPU Op Threshold (in view)
1	Australia	VIVINT INC.	00D3	Professional	\$1-10k	348M	659M	632M	551M	44%	622M	598M	51%
1	Australia	Doordash	00D3	Professional	\$1-10k	429M	151M	342M	322M	61%	458M	423M	84%
1	Australia	United Cont.	00D3	Professional	\$600k-1M	376M	456M	871M	759M	72%	781M	745M	124%
2	Australia	State Farm	00D3	Professional	\$200k-600k	566M	354M	465M	428M	83%	501M	488M	73%
2	Australia	Allstate	00D3	Professional	\$200k-600k	433M	786M	223M	243M	79%	348M	322M	79%
2	Australia	T-Mobile	00D3	Professional	\$200k-600k	261M	367M	498M	472M	59%	568M	524M	112%
2	Australia	Spotify	00D3	Enterprise	\$600k-1M	581M	290M	341M	367M	41%	402M	391M	34%
2	Australia	AWS	00D3	Enterprise	\$100k-200k	782M	554M	433M	450M	32%	552M	512M	56%

Falcon Migration Explorer (Beta)

Forecast Start
Aug 1, 2020

Forecast End
Apr 1, 2022

In view: **Version A** Last Updated 08.12.2020 - 05:30:01 GMT

Save Scenario

Load Scenario

Wave Config

Falcon Cell Config

Cell Template 1

AWS Region: Mumbai

DB InstanceType: R5.24XL

Cells/FD: 7

FDs/FI: 12

App Hosts/Cell: 12

#Oracle Cells (Prod): 1

#SDB Cells (Prod): 0

#SDB Cells (SBX): 2

Gear Ratio: SDB - Oracle: 2.5

Save Load Apply

Cell Thresholds

AWS-southap1 AWS-useast1

Org List for Migration - 235 Total Orgs

Migration Summary

Click a cell in the chart to filter the charts below.

Destination Cells: 1

Orgs Breaching Capacity: 0

Additional Cells Required: 0

Legend: Oracle SDB

Cell count chart

Cell Utilization Forecast: Aug 1, 2020 - Apr 1, 2022

DB CPU Time: Cell M1.Or

App CPU Time: Cell M1.Or

Wave	Cell ID	Status	AOV	#Orgs	Total Pk Hr DBCPU Time	% of DB CPU Threshold	% of DB Stor Threshold
1	M1.Or	Complete	\$2.7M	10	0.25M	4.3%	50%
2	M1.Or	Complete	\$7.8M	25	2.0M	12.7%	80%
3	M1.Or	In progress	\$11.3M	43	3.8M	36.2%	95%
4	M1.Or	Pending	\$21.5M	65	8.2M	61.5%	96%
5	M1.Or	Pending	\$36.4M	92	9.3M	91.2%	93%

Legend: Wave 1 Wave 2 Wave 3 Wave 4 Wave 5

Performance Threshold: 55% db CPU

Falcon Migration Threshold: 30% db CPU

Performance Threshold: 65% App CPU

Falcon Migration Threshold: 40% App CPU