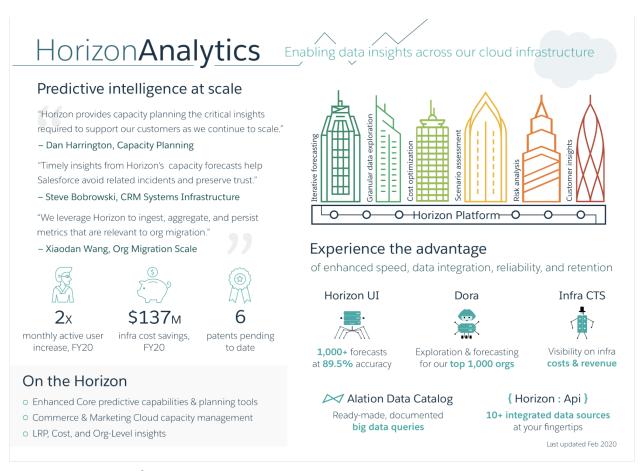
Nick Murray - Data Product Design at Salesforce

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

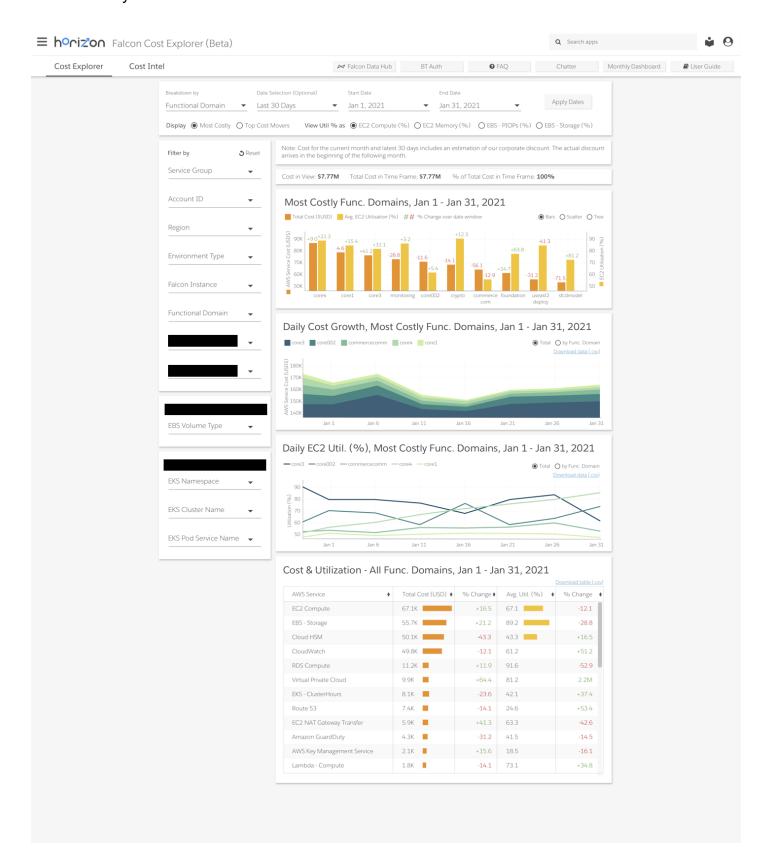
Our team delivers internal data products to thousands of infrastructure planners, executives, and engineers to ensure that Salesforce, its acquisitions, and any customer-developed apps function seamlessly in the cloud.

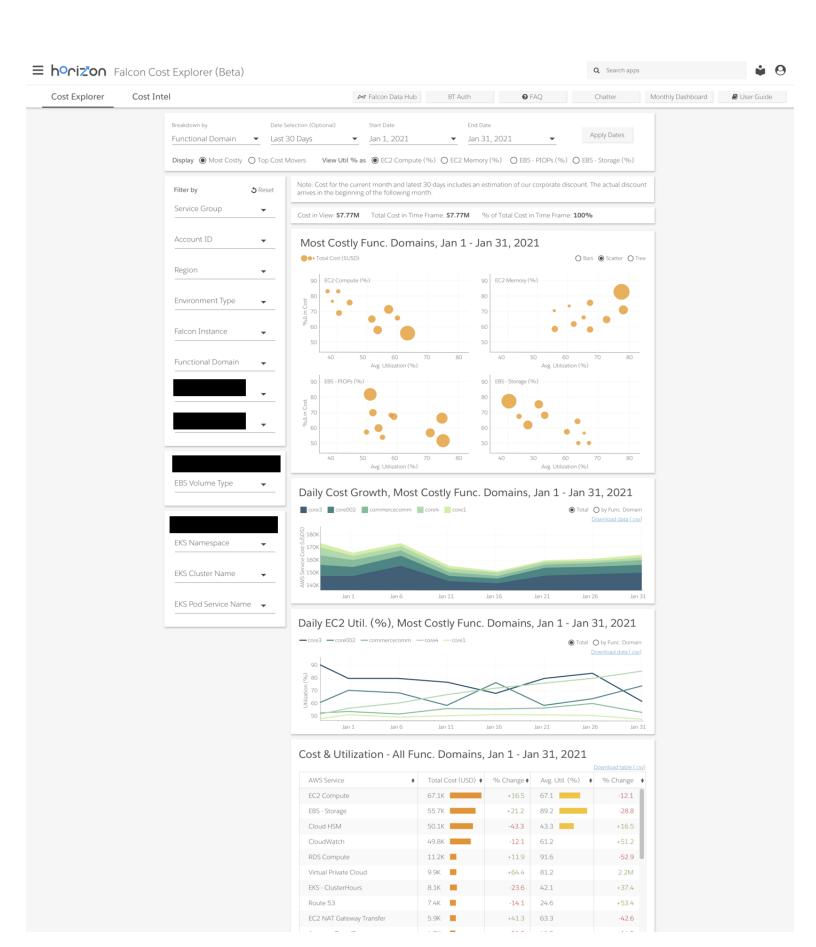


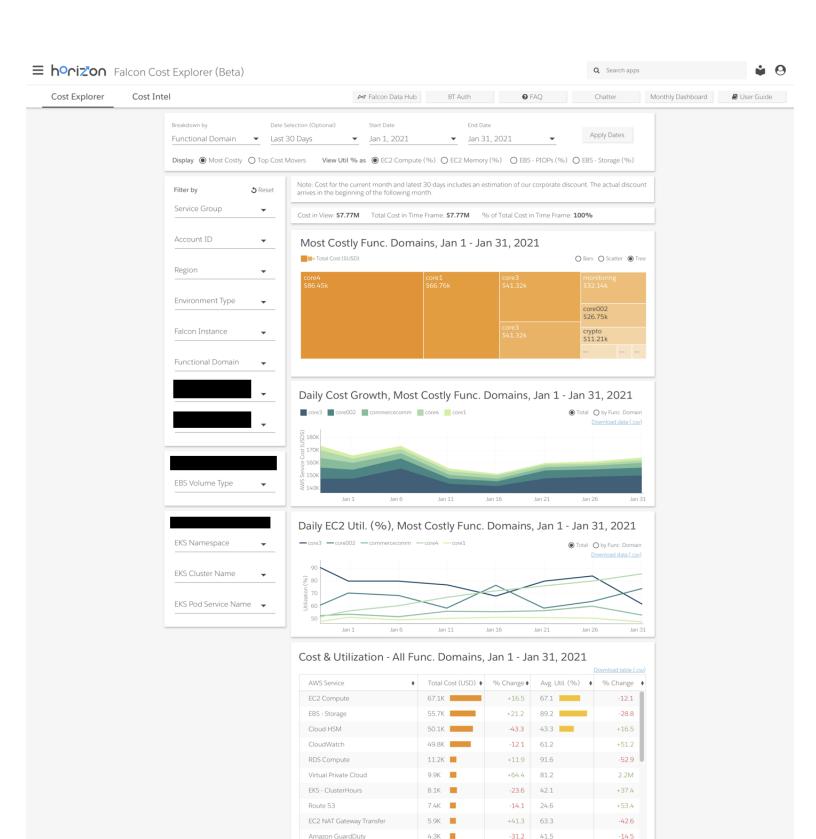
Team showcase infographic by Nick Murray, Feb 2020

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.







AWS Key Management Service

Lambda - Compute

2.1K

1.8K

+15.6

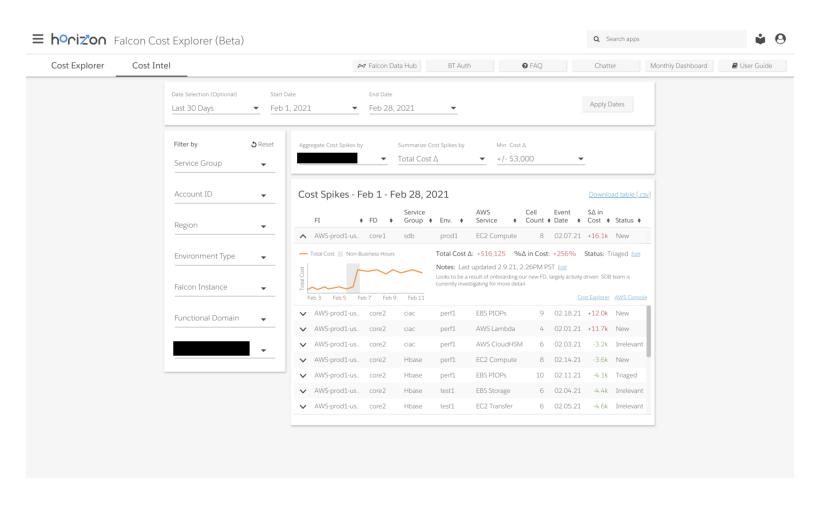
-14.1

18.5

-16.1

+34.8

Cost Intel - Anomaly Detection within Falcon Cost Explorer, Feb 2021



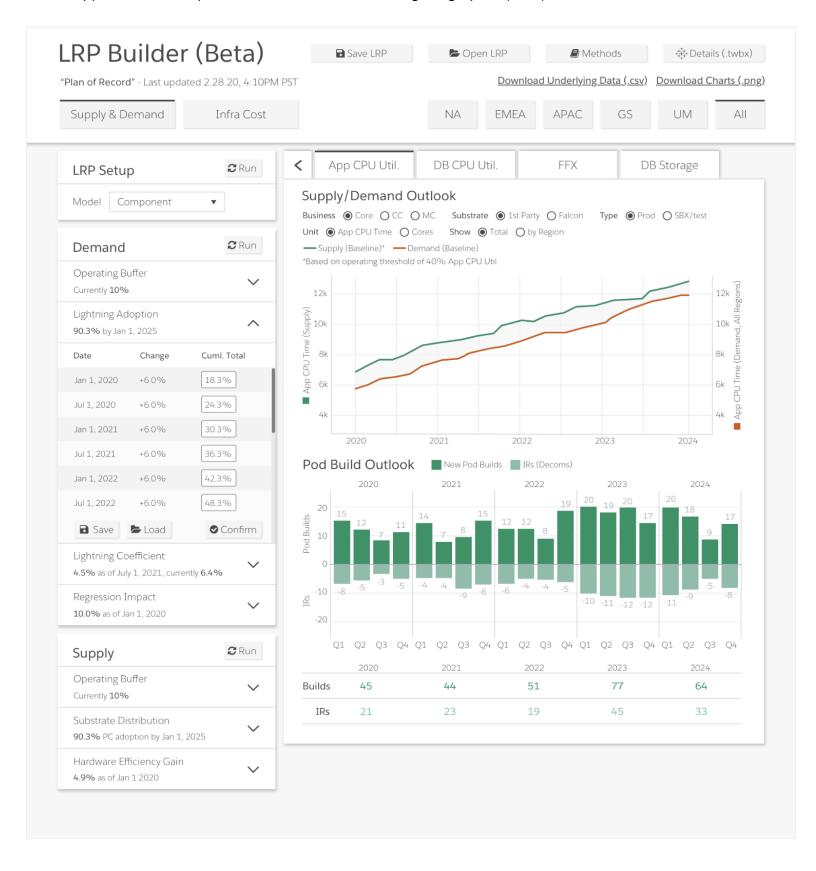
Cost Alerting Wireframe v1

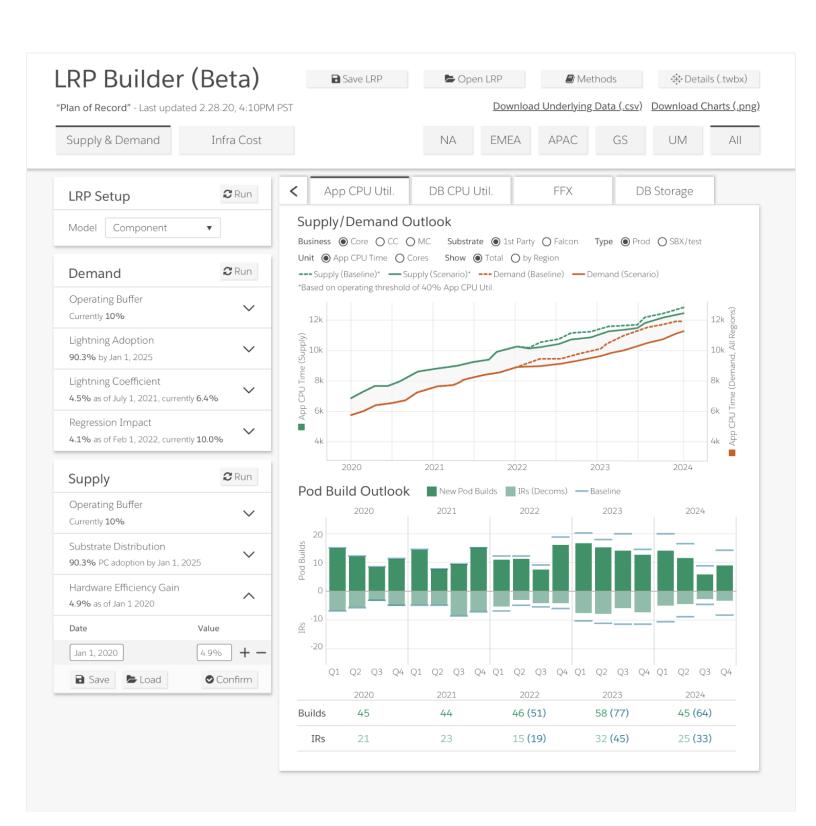
Purpose: Interface to communicate relevant cost anomalies, & their impact on FD-level budgets. 'User Driven' and 'Software Driven' metrics designed to support decisions on how to respond to any observed anomalies

Horizon Navbar This is a tab in our existing User Guide **Cost Explorer** Cost Intel Falcon Data Hub BT Auth FAO Chattter Monthly Dashboar Daily Cost Dashboard Minimum \$ amount of Min \$ amount Alert Severity Date range start to Date range end alerts in view. Includes precanned values such as K. Wakim's suggestion, a quick feedback mechanism 25%, 50%, and 100% of daily total cost. to hone our alerting sysem Was this useful? Filter by Cost Anomalies Click a table row to filter all charts. **Anomaly Details** View by Total cost O Growth rate (%) Secondary Dimension Filters match daily cost Service Group Breakdown defaults to FD, Functional Domain Service Group dashboard. They apply to anomalies table Foundation Cost, Daily Total: 12/19 - 12/23 as this is the level at which budgets are set. Quarterly Budget Account ID Based on rankings we Service generate. Assists users who FD Group \$ Amt. %Λ Date Details Secondary dimension defaults to Service Group, Region may not yet know what \$ Foundation Hbase +\$56.1k +102 12.21.20 AWS Cons amounts or % changes in Dec 19 Dec 20 Dec 21 Dec 22 Dec 23 as Service Owners will be cost they're interested in vet Foundation Hbase +\$56.1k +102 12.21.20 AWS Cons **Environment Type** curious of their Cost By Service, Daily Total, Foundation Foundation Hbase +\$56.1k +102 12.21.20 AWS Cor contribution to overall FD Breakdown defaults to FD budget (Finance) Event Windo & Service, speaking to the Falcon Instance Foundation Hbase +\$56.1k +102 12.21.20 AWS Consc Cost (\$) budget tracking use case. Foundation Hbase +\$56.1k +102 12.21.20 AWS Console Ideally this can ultimately include 'PID Leader' as an Functional Domain Foundation Hbase +\$56.1k +102 12.21.20 AWS Console option. (Finance) Region, Dec 20 Dec 21 and role will also be Foundation Hbase +\$56.1k +102 12.21.20 AWS Co AWS Service commonly used Expand to view breakdown dimensions contextual data. **User-Driven Metrics: Foundation** (EF, KW) Purpose is to aid root Click any row in the cause analysis and inform next steps. anomalies table to filter all Software-Driven Metrics: Foundation (EF, KW) (e.g. Snoopy)

LRP Builder - Long Term Infrastructure Build Planning, Jul 2020

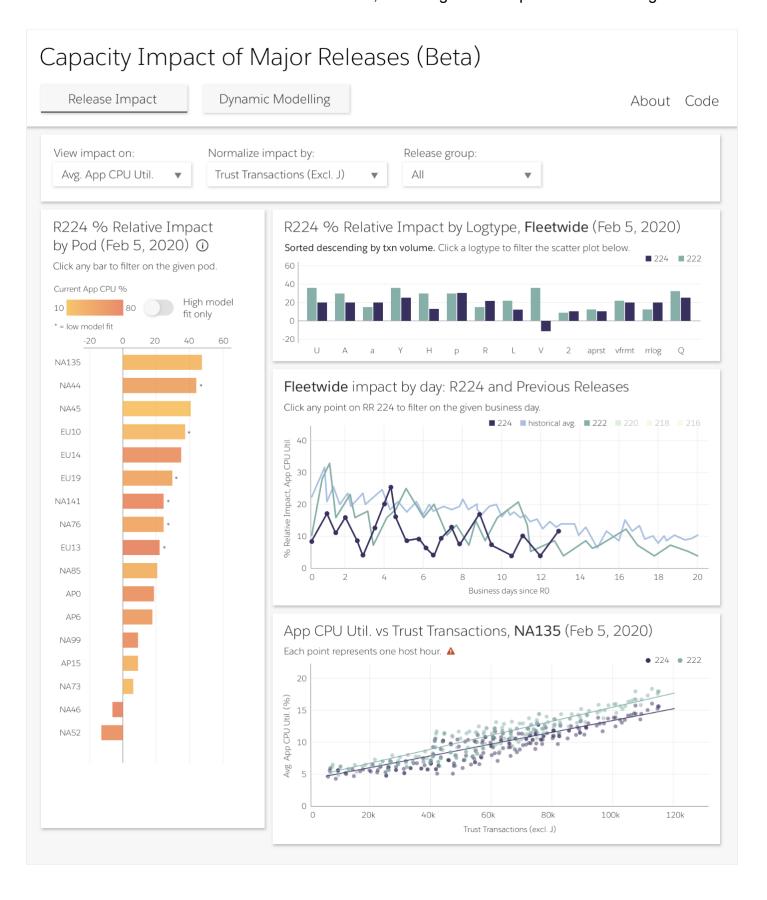
Purpose: Enable executives and capacity planners to run infrastructure build scenarios, to support the development of our infrastructure long range plan (LRP).





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.



Dynamic Modelling across Date Windows

Release Impact

NA99

AP15

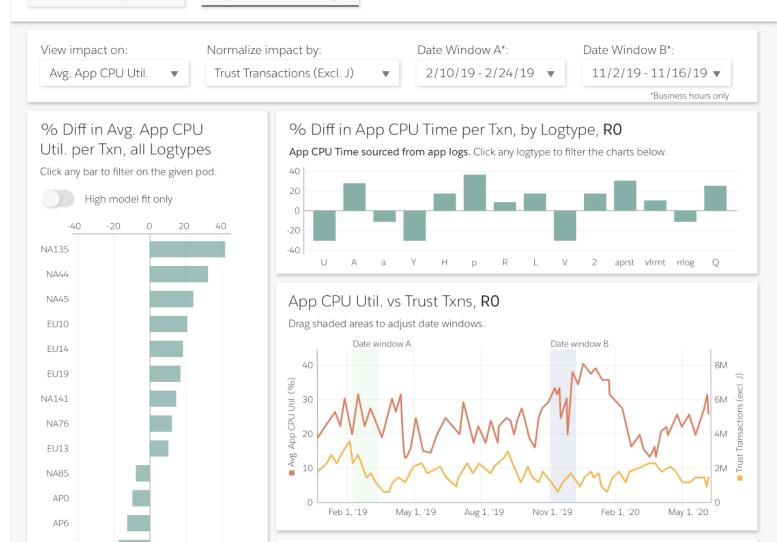
NA73

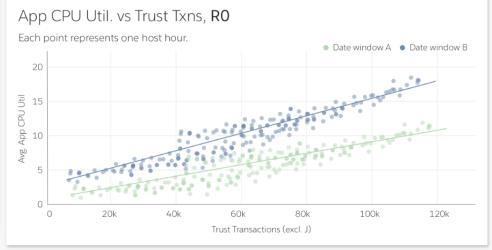
NA46

NA52

Dynamic Modelling

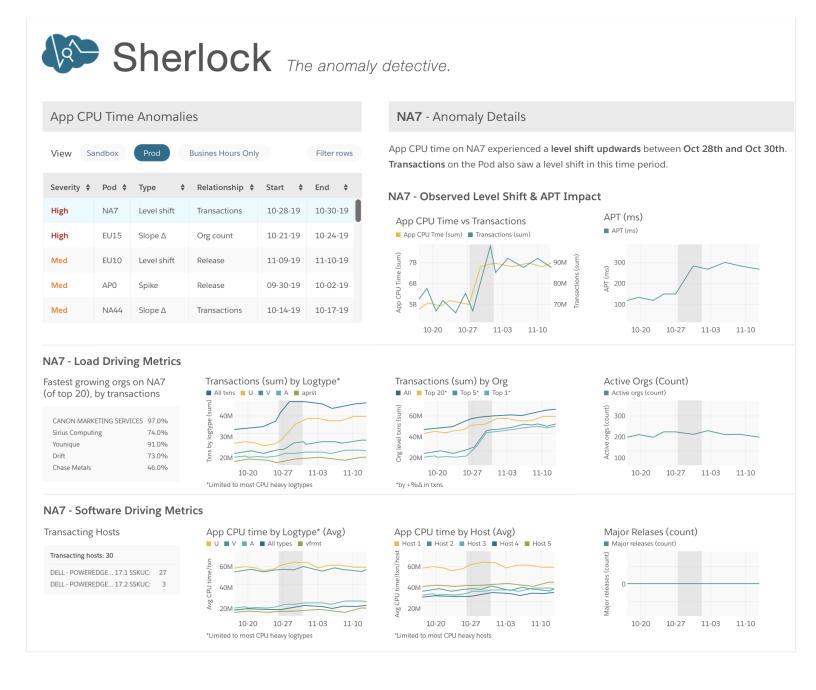
About Code





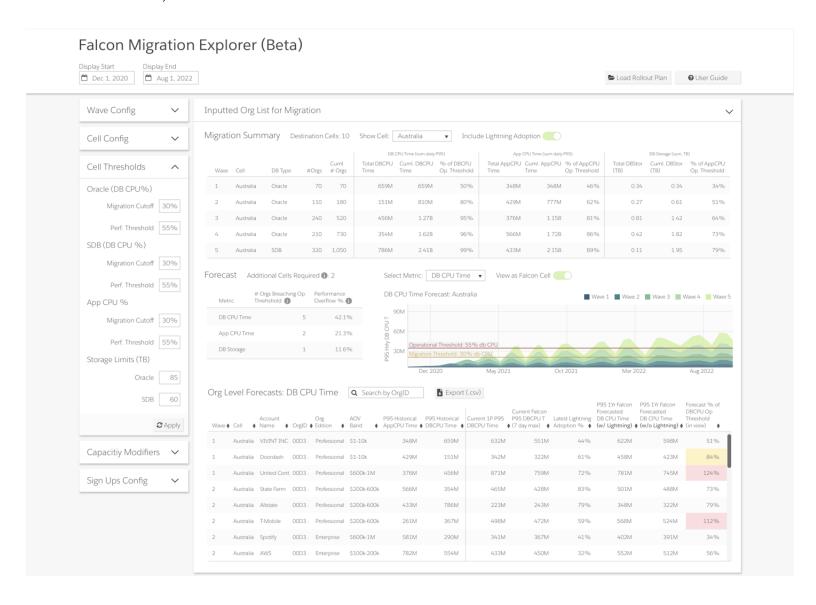
Sherlock - Anomaly Detection and Triage, Dec-Jan, 2020

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

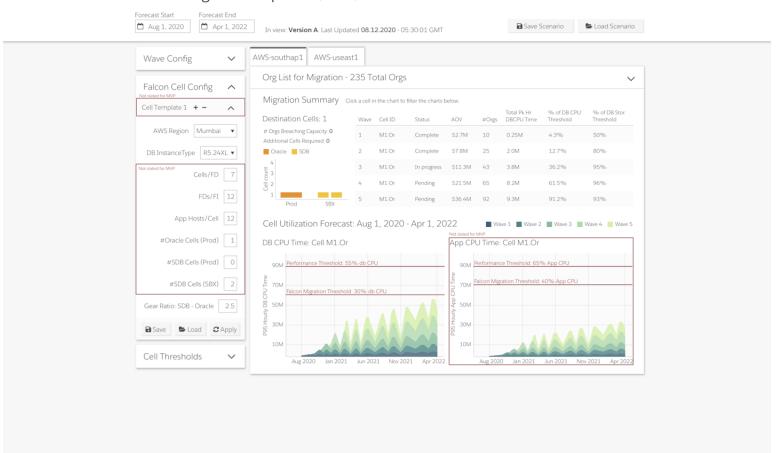


Falcon Migration Explorer - Scenario Forecasting for Effective Customer Migration, Jun 2020

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.

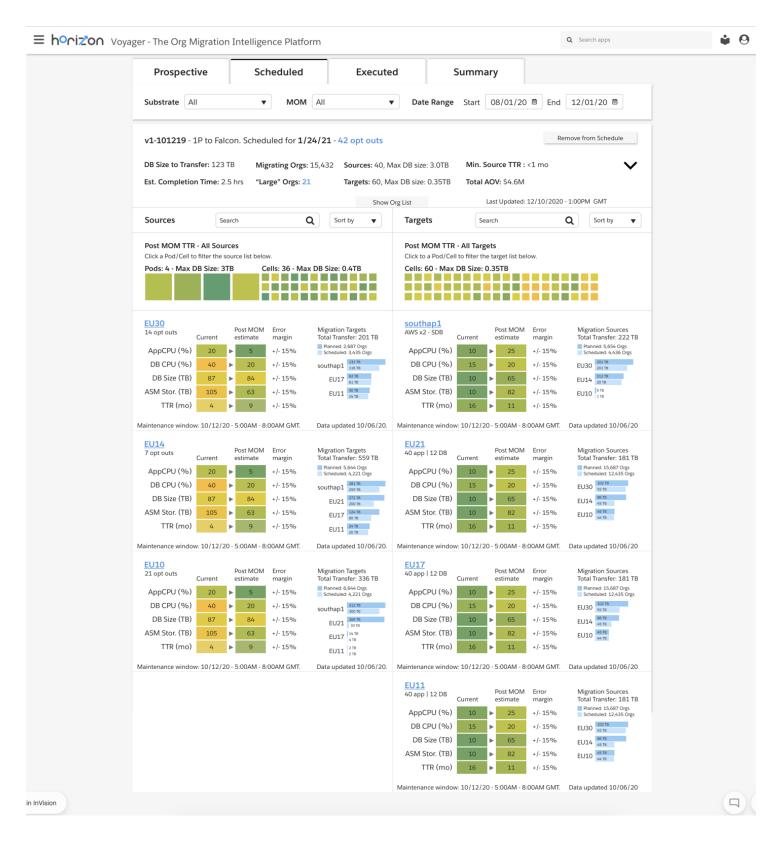


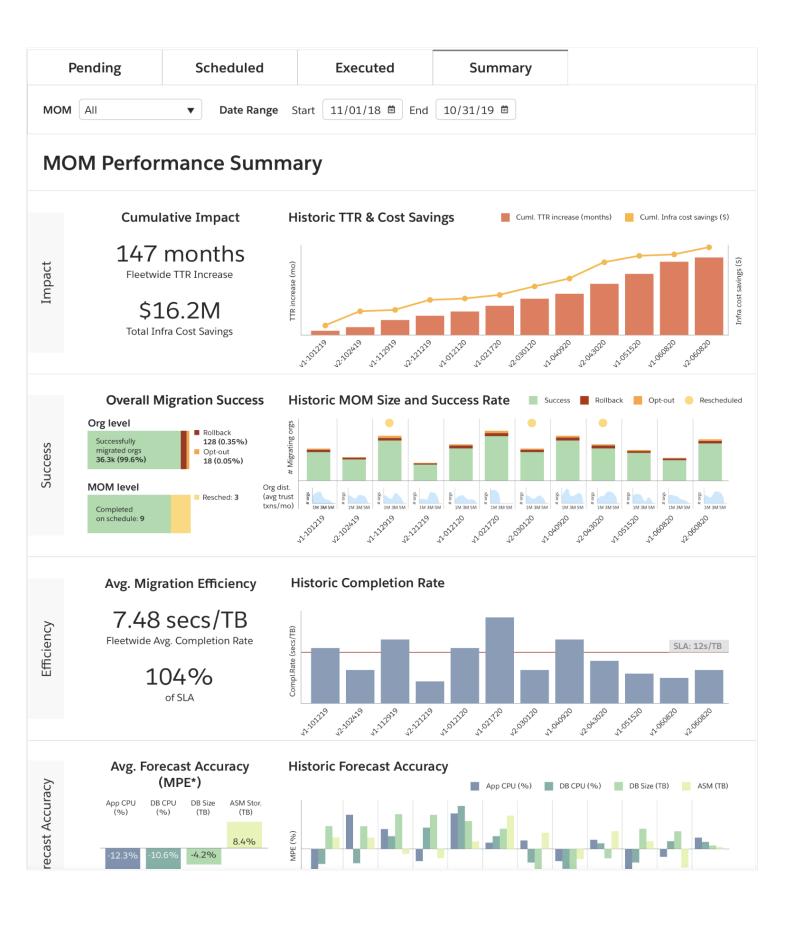
Falcon Migration Explorer (Beta)



Voyager - Managing Customer Cloud Migration, Nov 2019

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



Source View

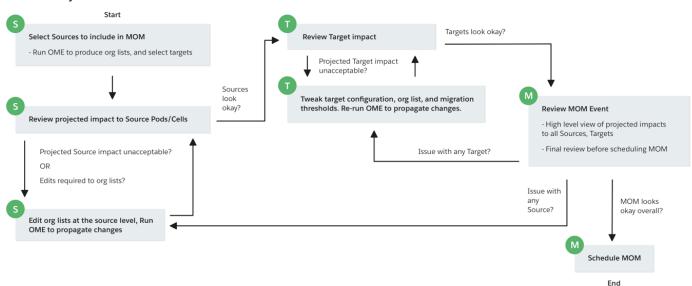
- Select Sources to remediate
- Review projected impact to any Source
- Edit org lists provided by OME, or upload them manually
- For any Source, edit org list, and re-run $\ensuremath{\mathsf{OME}}$ to finalize targets

- Review projected impact to any individual Target. OME handles all Target selection
- Edit incoming org list, Target configuration, and migration thresholds. Re-run OME to propagate changes.
- Review org list migrating to any individual Target

MOM Event View

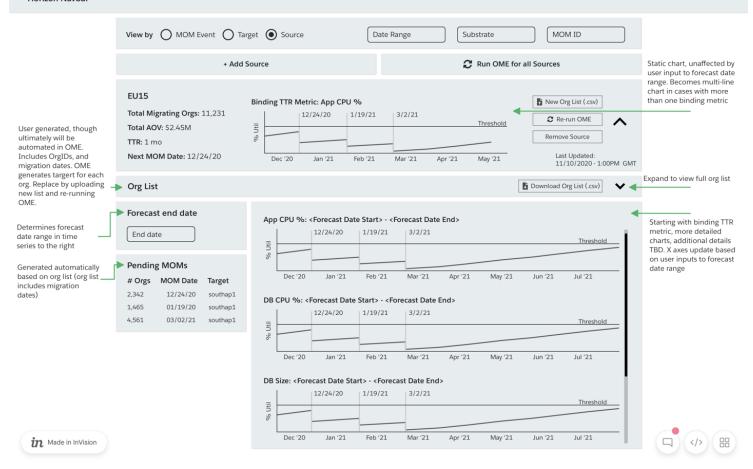
- Read only review of aggregate impact across Sources and Targets
- Make any necessary edits from Source and Target
- When satisfied, schedule MOM.

User Journey



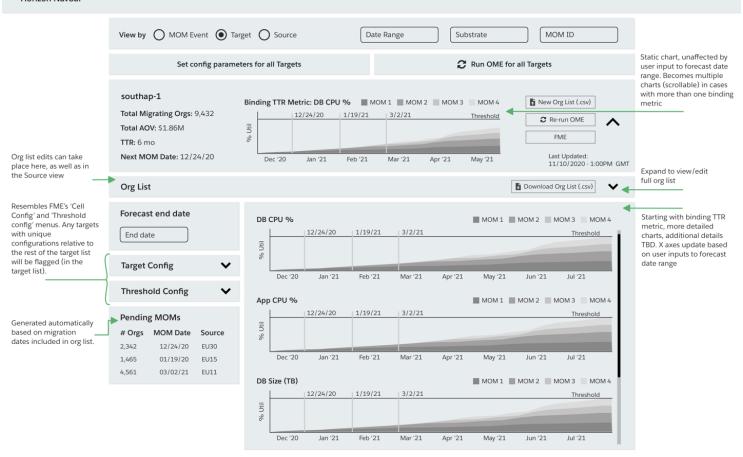


Horizon Navbar





Horizon Navbar



Horizon Navbar

