June 30, 2020

Integrated Monitoring with Operational Insights

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Housekeeping Tips









- Today's Webinar is scheduled for 1 hour
- > The session will include a webcast and then your questions will be answered live at the end of the presentation
- > All dial-in participants will be muted to enable the speakers to present without interruption
- > Questions can be submitted to "All Panelists" via the Q&A option and we will respond at the end of the presentation
- The webinar is being recorded and will be available to view on our INFASupport YouTube channel and Success Portal.
 The link will be emailed as well.
- Please take time to complete the post-webinar survey and provide your feedback and suggestions for upcoming topics.



Feature Rich Success Portal



Bootstrap trial and POC Customers



Enriched Customer Onboarding experience



Product Learning Paths and Weekly Expert Sessions



Informatica Concierge with Chatbot integrations



Tailored training and content recommendations



More Information



Success Portal

Communities & Support

https://success.informatica.com https://network.informatica.com

Documentation

https://docs.informatica.com

University

https://www.informatica.com/in/servic es-and-training/informaticauniversity.html



Safe Harbor

The information being provided today is for informational purposes only. The development, release, and timing of any Informatica product or functionality described today remain at the sole discretion of Informatica and should not be relied upon in making a purchasing decision.

Statements made today are based on currently available information, which is subject to change. Such statements should not be relied upon as a representation, warranty or commitment to deliver specific products or functionality in the future.



Agenda

- Introduction to Operational Insights
- UseCases
- Architecture
- Demo
- Q&A





Introduction to Ops Insights

Operational Challenges

- Interface complexity
 - Multiple products with different operational tools
 - Hybrid product environment with IICS and multiple Informatica domains
- Lack of insights to handle
 - Scheduling complexity
 - Capacity planning
 - Troubleshooting
 - Performance tuning



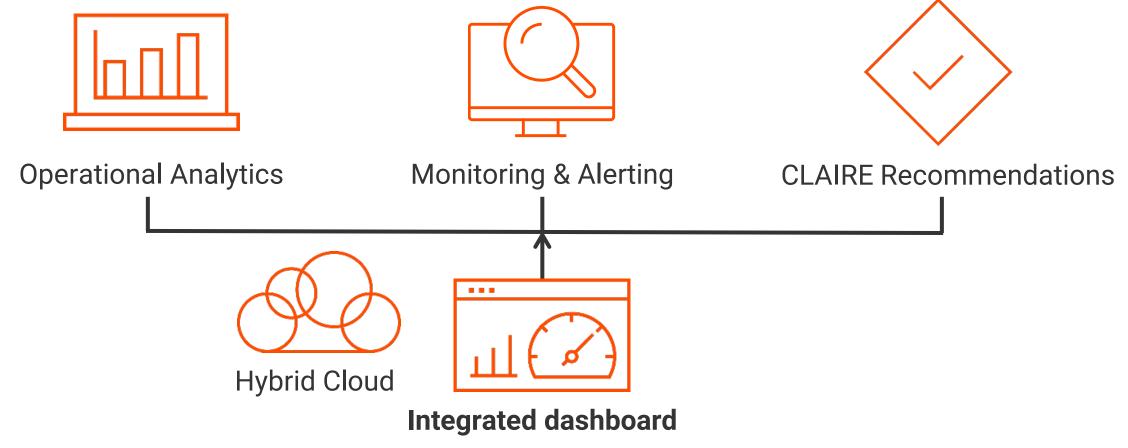
Operational Insights | Vision

Be the industry-leading operational-data management platform so that customers can have a "single pane of glass" across on-premises and cloud deployments

Goal

Increase operational efficiency of Informatica deployments by providing Predictive Analytics, Actionable Recommendations and Integrated Monitoring

Operational Insights – Functionality



Benefits

- Lower TCO and operational efficiency
- Integrated Operations Management across geographies, domains, products and services (PC, DEI, DQ, CDI etc.)
- Assess existing project utilization and plan for future capacity
- Reduce the initial investigation time of operational issues
- ML based Anomaly detection for PC to catch problematic job runs proactively
- Value added best practice recommendations
- Zero-to-miniscule impact on upgrade while enjoying new features rolling out every month



^{*} PC - PowerCenter, IDQ - Informatica Data Quality, DEI - Data Engineering Integration, EDC - Enterprise Data Catalog, CDI - Cloud Data Integration

Call to Action

| Customer Type | How to get Operational Insights | |
|---|---|--|
| IICS customers | Automatically get Operational Insights for Cloud Services | |
| IICS customers with on-premise products | Contact Global Customer Support to enable Operational Insights for Onpremises products base edition in your cloud org. | |
| Customers with only on-premise products | Sign up now for free Operational Insights for on-premises products base edition subscription! https://www.informatica.com/subscriptions/operational-insights.html | |





On-Premise Products UseCases

Operational Insights for On-Premise Products

| | Base Edition (Free) | Advanced Edition (Paid) | Applies to |
|--|---------------------|--|-----------------|
| No. of on-premises Domains | 10 | Based on number of Production CPU-Cores | PC,DQ,DEI |
| Data retention | 30 days | 1 year | PC,DQ,DEI |
| Secure Agents included for OI data collection | 1 | 1 per PROD env and only for OI data collection | PC,DQ,DEI |
| No. of Repositories | unlimited | unlimited | PC,DQ,DEI |
| Job runtime analytics | Υ | Υ | PC,DQ, DEI |
| Resource utilization analytics | Υ | Υ | PC,DQ, DEI, EDC |
| Job error remediation recommendations | Υ | Υ | PC |
| Domain health monitoring and email alerting | Υ | Υ | PC,DQ, DEI, EDC |
| | | | |
| Projects View of Operational Data | | Υ | PC,DQ, DEI |
| Job Alerting(completed workflows) | | Υ | PC |
| Grid auto-scale(on AWS) | | Υ | PC |
| CLAIRE Job alerting on anomalous run job behavior | | Υ | PC |
| Execute custom script as an alert action | | Υ | PC,DQ, DEI |
| Custom role creation using fine grained privileges | | Υ | PC,DQ, DEI |
| Single sign-on with SAML support | | Υ | PC,DQ, DEI |

^{*} PC - PowerCenter, DQ - Informatica Data Quality, DEI - Data Engineering Integration, EDC - Enterprise Data Catalog



PowerCenter Lift & Shift

PowerCenter AMIs on AWS or Azure Marketplace can help with quick initial deployment

- Operational Insights can help Lift & Shift use cases by
 - Integrated dashboard for monitoring
 - Compare project/workflow performance
 - Auto-capacity management on AWS with Auto-scale feature



Personas for Operational Insights

- Informatica Platform Shared Service Managers
- Administrators
- Data Architects
- Operations team



What information is collected from PowerCenter?

Operational metadata

- 1. Job run statistics from Repository (once an hour)
- 2. Resource utilization statistics from Repository (once an hour)
- 3. Domain health (every 5 mins)
- 4. Domain configuration (once a day)

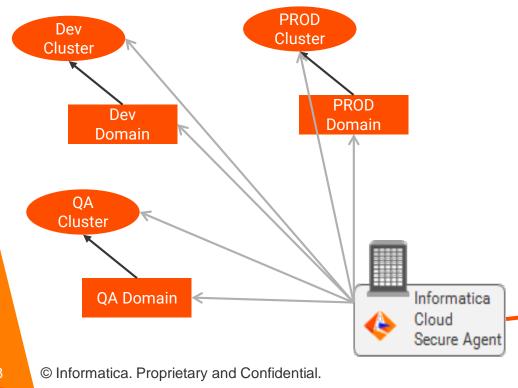


What information is collected from DEI/DEQ?

On-premises

Cloud

Customers Big Data environments



- Operational metadata (No data), configure collection in the cloud
 - Job run statistics from Model Repository (once an hour)
 - 2. Cluster resource utilization statistics from Big Data cluster for running Informatica jobs (once an hour)
 - Resource utilization statistics from Model Repository (once an hour)
 - 4. Domain health (every 5 mins)
 - 5. Domain configuration (once a day)

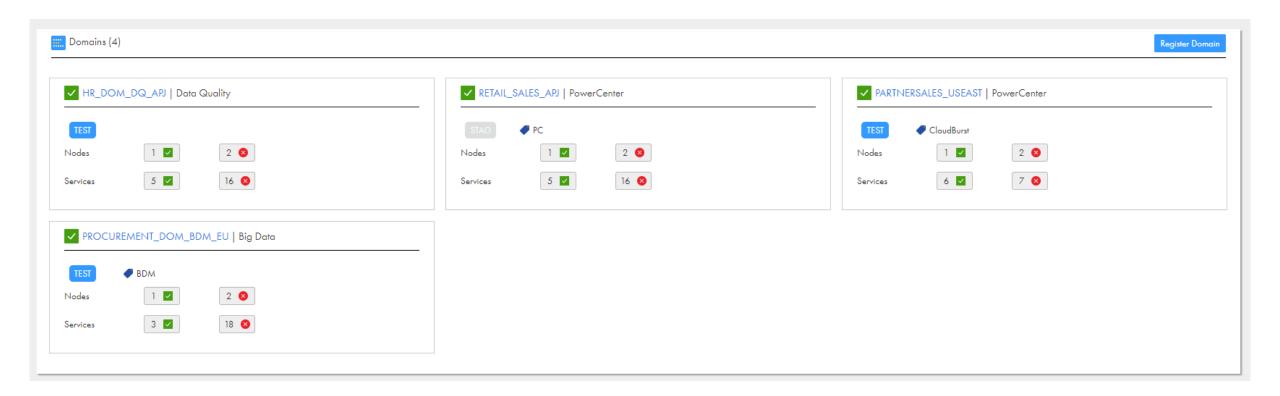


What information is collected from IDQ?

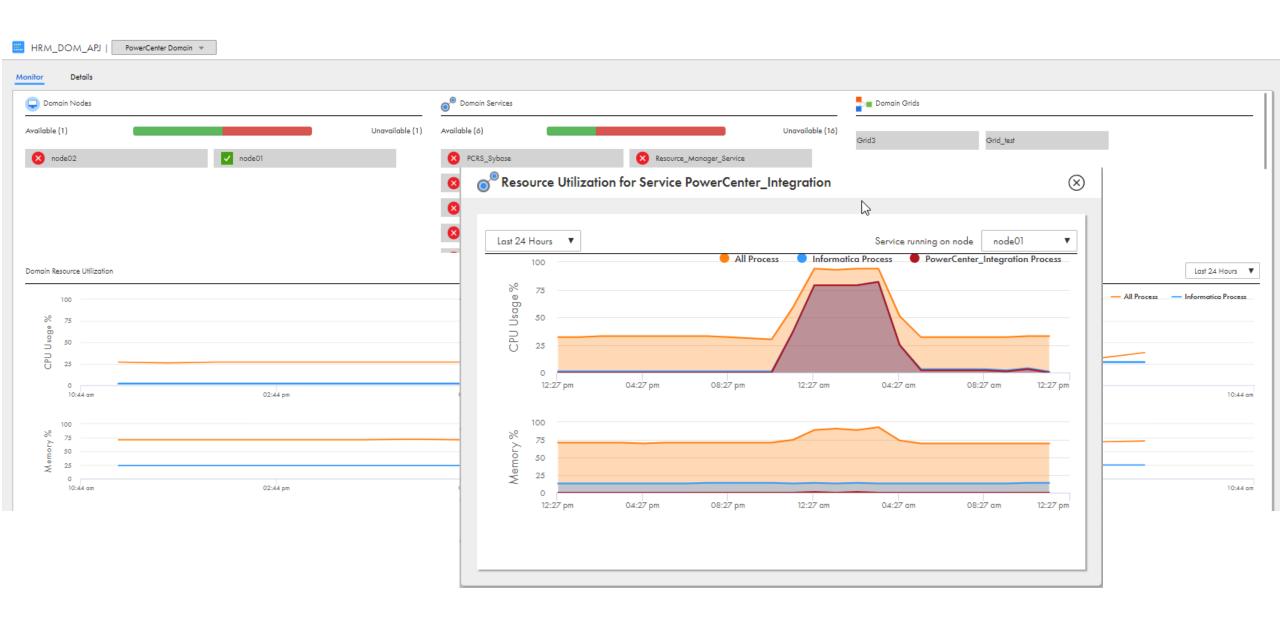
- Operational metadata
 - 1. Job run statistics from Model Repository (once an hour)
 - 2. Resource utilization statistics from Model Repository (once an hour)
 - 3. Domain health (every 5 mins)
 - 4. Domain configuration (once a day)



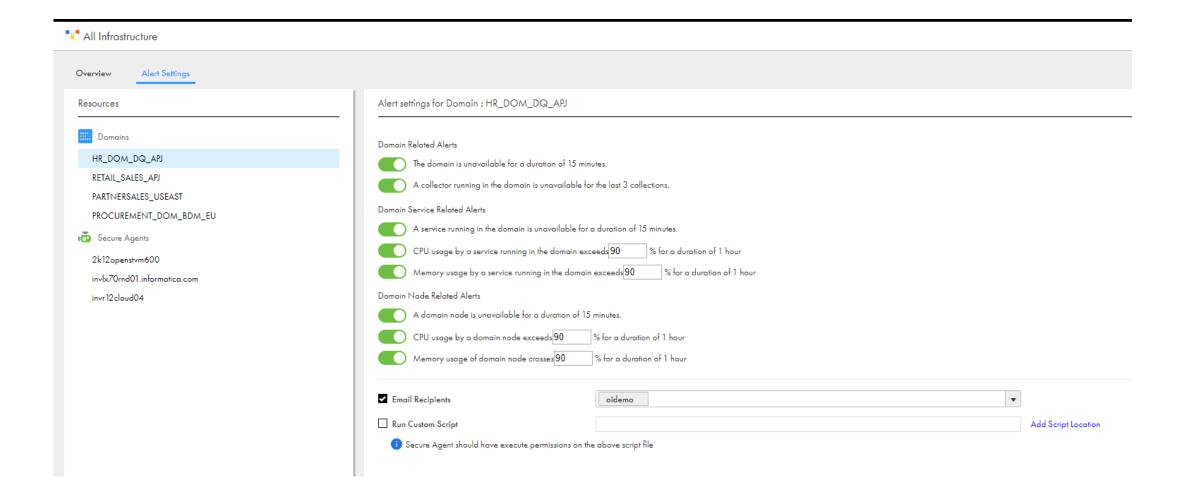
All Infrastructure – Domains View



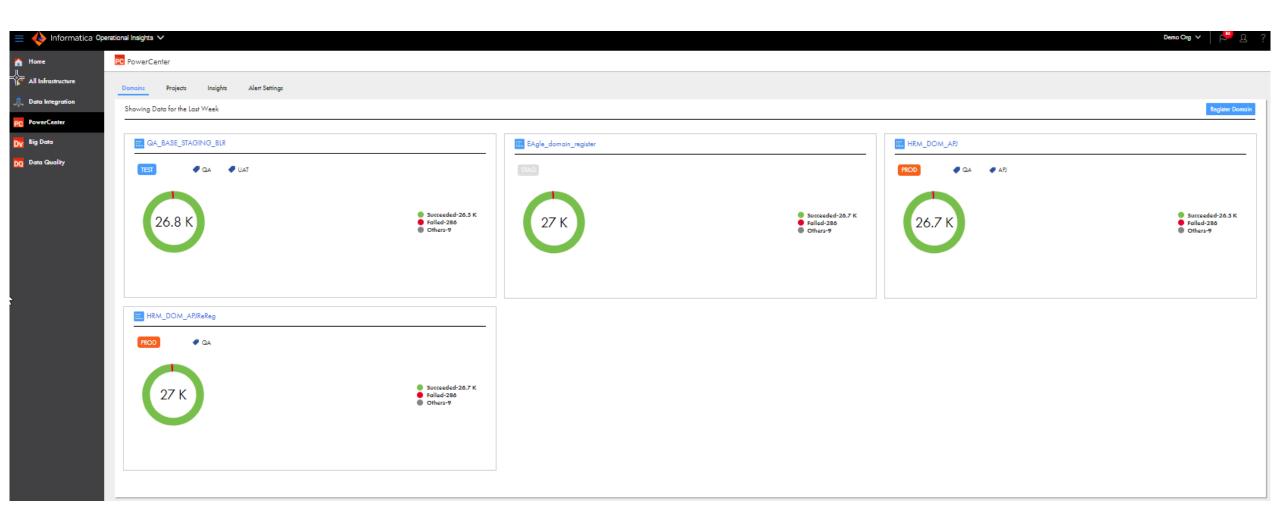
PowerCenter Infrastructure – Domain Nodes, Services, Grids



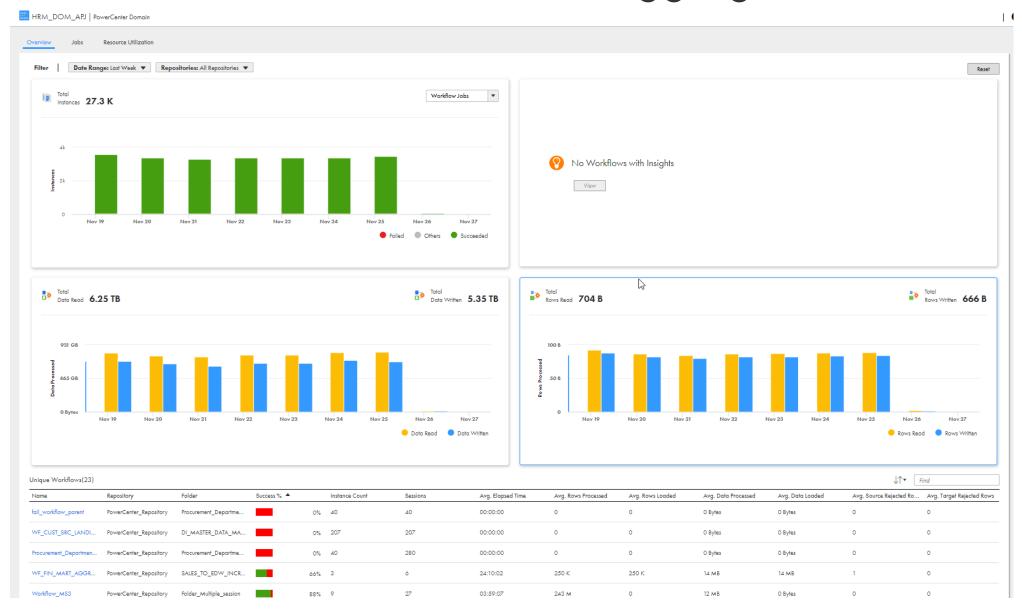
PowerCenter Infrastructure – Alert Settings



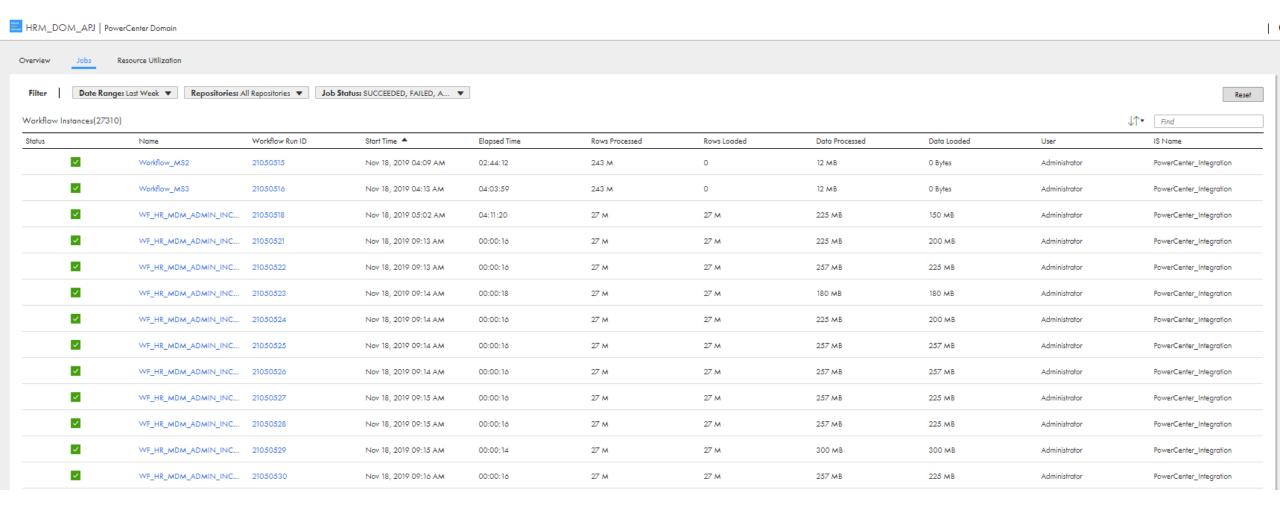
On-Premises Domains – Jobs Summary



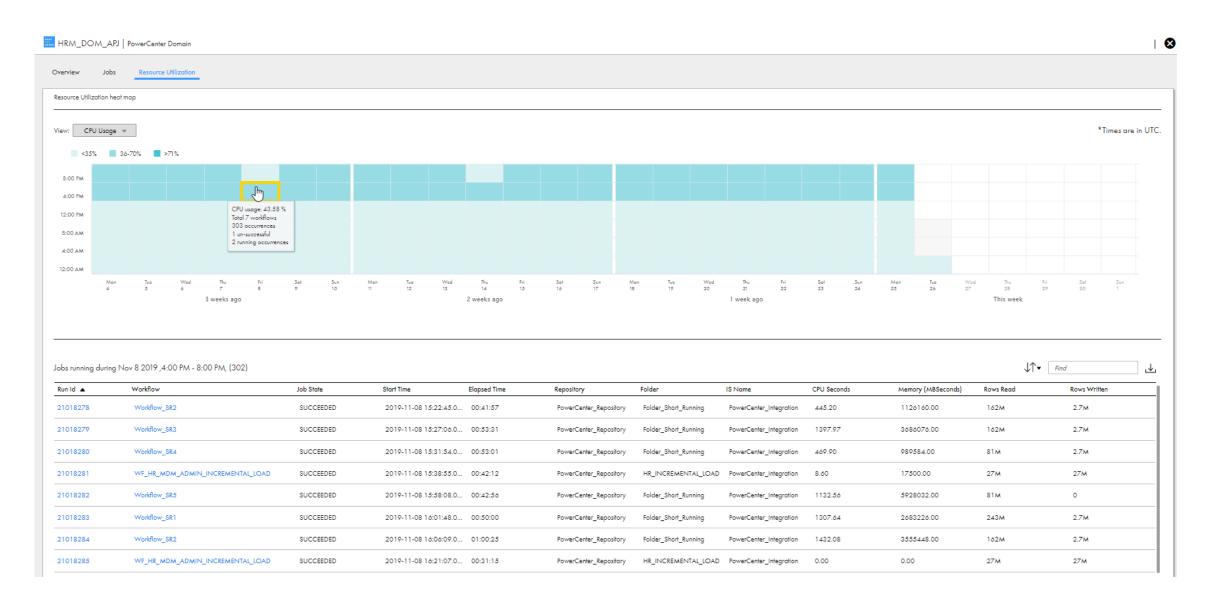
PowerCenter Domain – Jobs Aggregate View



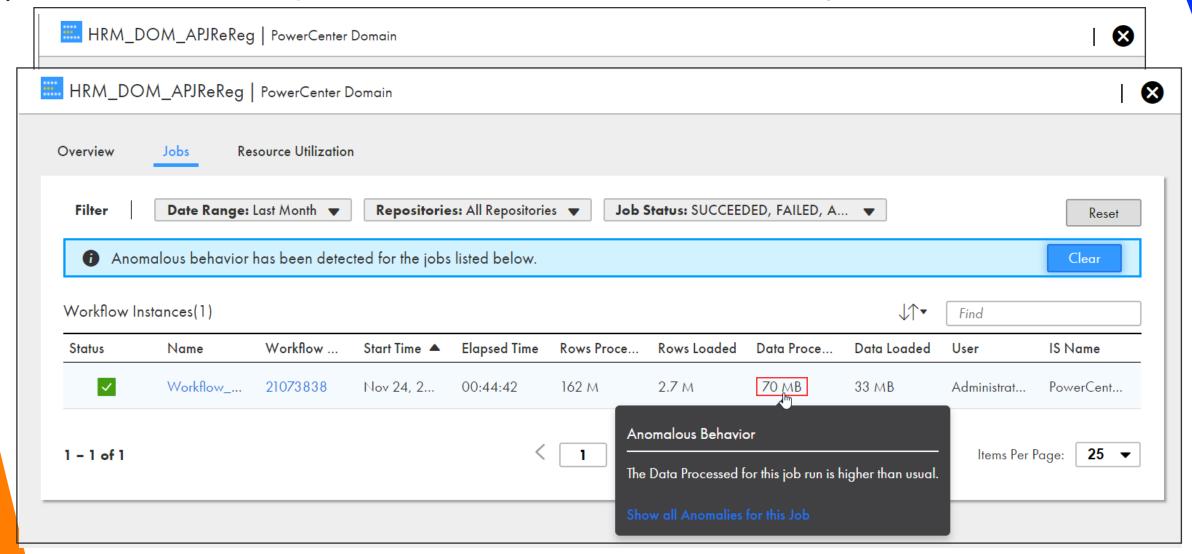
PowerCenter Domain - Workflow Jobs View



PowerCenter Domain – Resource Utilization



Operational Insights for PC - CLAIRE Anomaly Detection



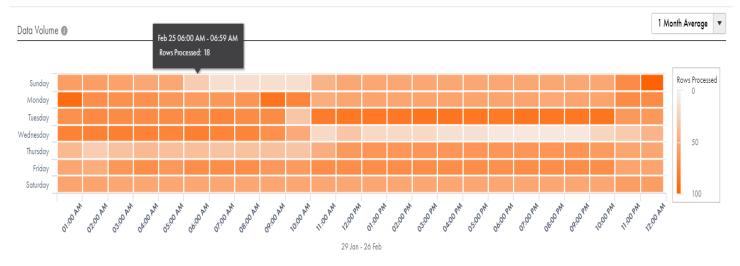




Cloud Data Integration UseCase

Jobs heat map and scheduled jobs

- Quickly identify the peak time with the jobs heat map.
- Heat map helps you analyze the impact on your integration jobs and optimize resources and schedules.
- View of all your upcoming scheduled jobs for the next 24 hours to detect any overloads on our runtime environments.

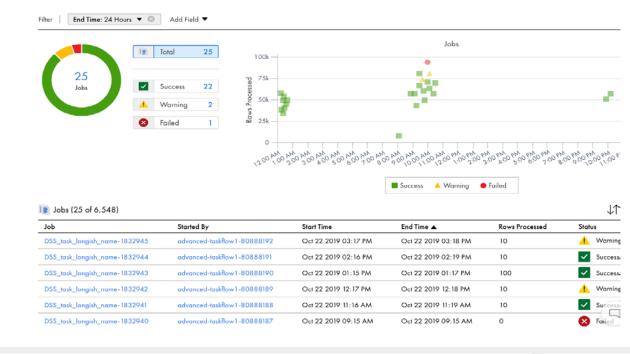


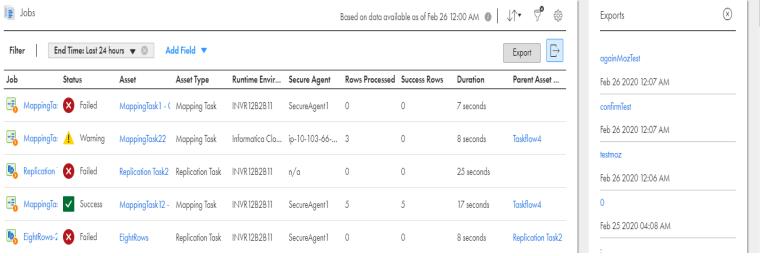




Historical job runs

- Visualize the previous runs of any integration job to spot anomalies in the task run.
- Historical job runs available for the last 30 days.
- Export the data to csv for further analytics and reporting needs.

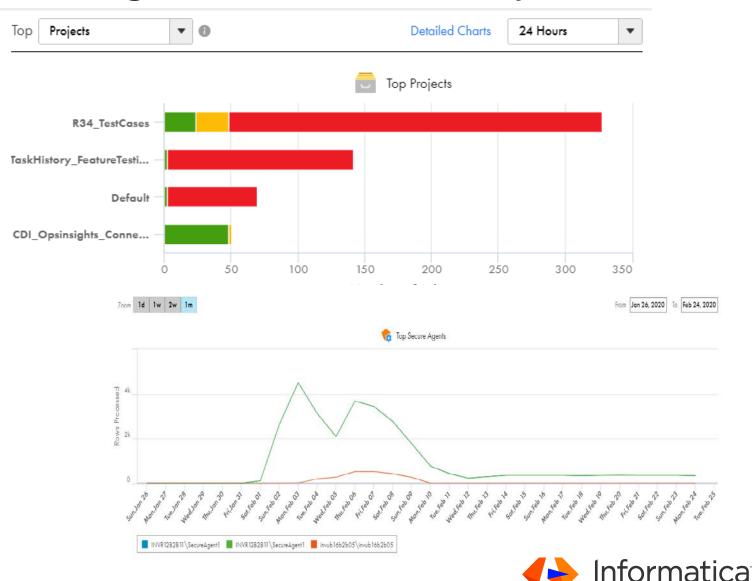






Project level and Secure Agent view of activity

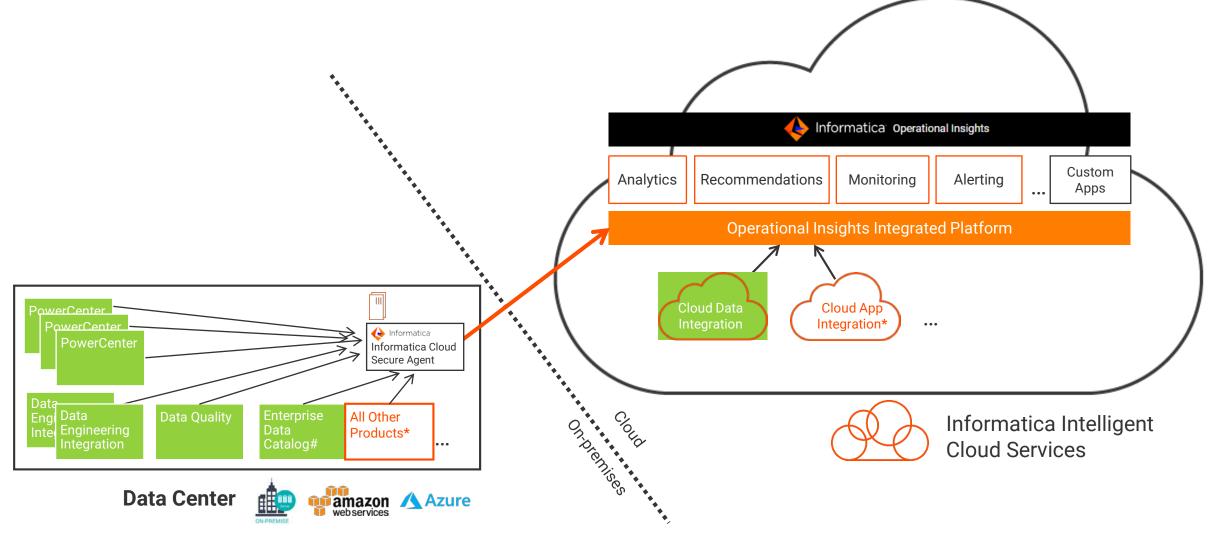
- Dashboards that provide project/folder level overview of the data integration jobs.
- Quickly identify business units that have job failures and need attention.
- Compare the load on your secure agents to optimize resource and scheduling of the integration jobs.





Architecture

How Operational Insights works?







References

- Ops Insights Website: Click Here
- How to Register to Ops Insights: Click Here
- How to Download and Install Secure Agent: <u>Click Here</u>
- Introduction to Ops Insights: Click Here
- Understanding the Ops Insights Overview Page: Click Here
- Ops Insights for Big Data Management Blog : Click Here
- Using Resource Usage Heatmap: Click Here
- How to Register PowerCenter Domain: <u>Click Here</u>
- How to Register for Data Engineering Integration/Quality Domain: Click Here
- Analyzing Big Data Job Performance: Click Here
- Analyzing Big Data Domain Resource Usage: <u>Click Here</u>
- How to Register Domain for Ops Insights: Click Here



