



regoUniversity

SAN DIEGO • 2023

Apptio Environment
Performance and
Optimization
Your Guides:

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Agenda

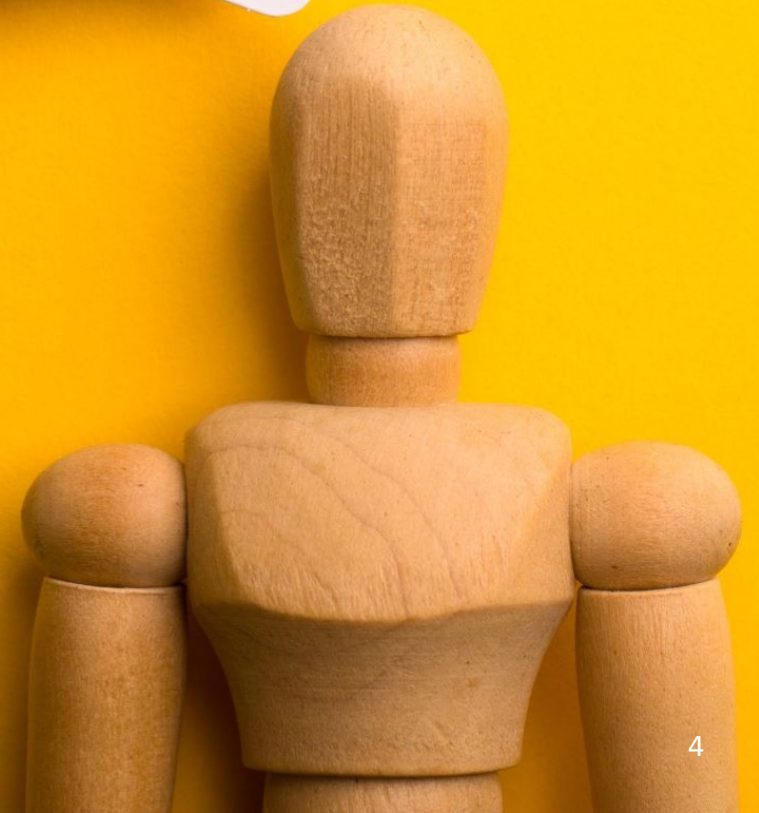
- Introduction
- Checking Apptio Version
- Tools Overview
 - Analyze Performance Component
 - Configuration Insights
 - Usage Project
- Configuration Tips
- Demo

Introductions

- Take 5 Minutes
- Turn to a Person Near You
- Introduce Yourself
- Business Cards

Quick Poll

- How many of you have run into performance issues with your Apptio environment?
- Are any of you still having issues?



Environment Health

Trust

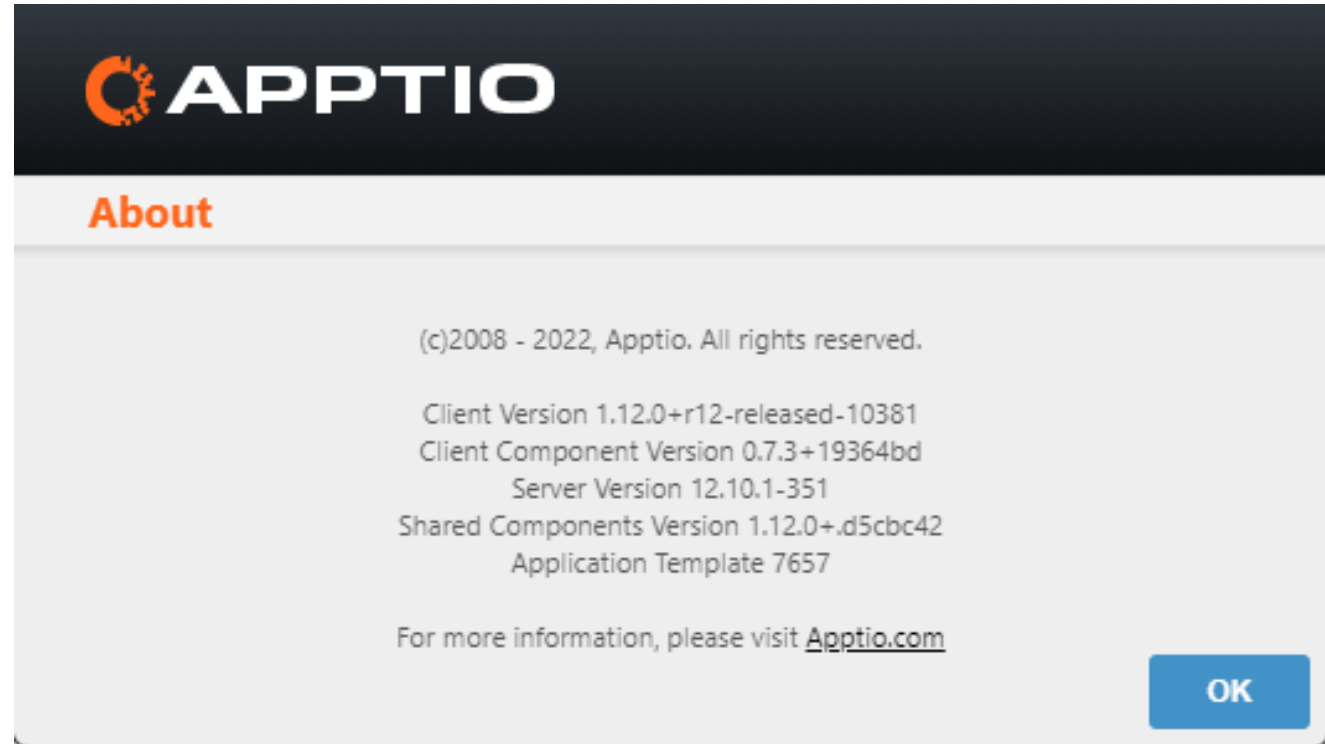
Access

Responsiveness

Evolution

Apptio Version

- Server Version 12.10.1
- Client Version 1.12.0
- Components Version 110



What is Performance

- Calculation Times
- Report Load Times
- Navigation within Development

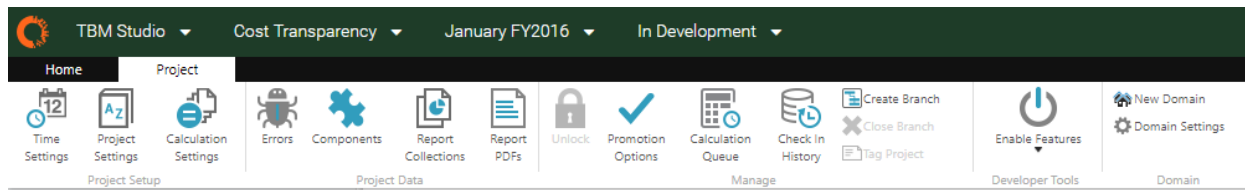


Analyze Performance Component

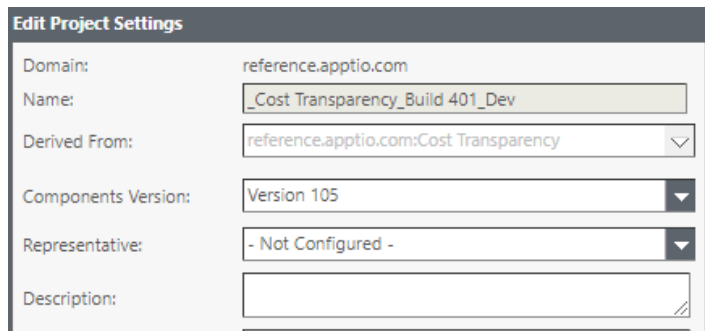
Analyze Performance Component - Installation

The Performance Component is available in the 12.5 Version of the R12 Platform. It is part of the v1.05 Content Version. Steps to install the component:

- In your workspace, verify the content version that is configured for your project
 - Click Project Settings

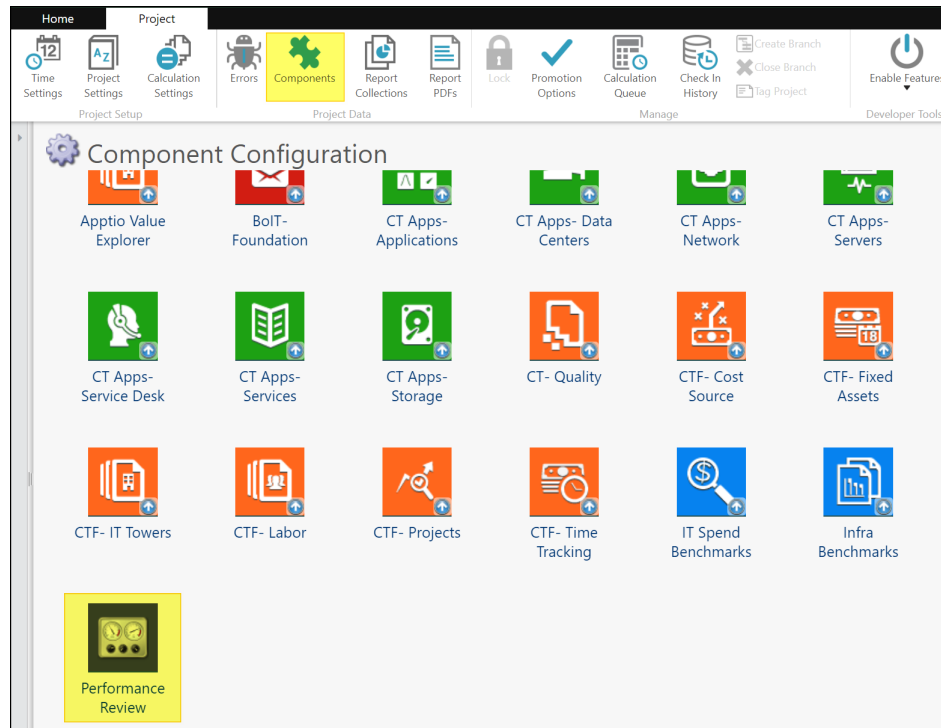


- Validate that Content Version is 105 (if it not, instructions for installing from other versions follow)



Analyze Performance Component - Installation

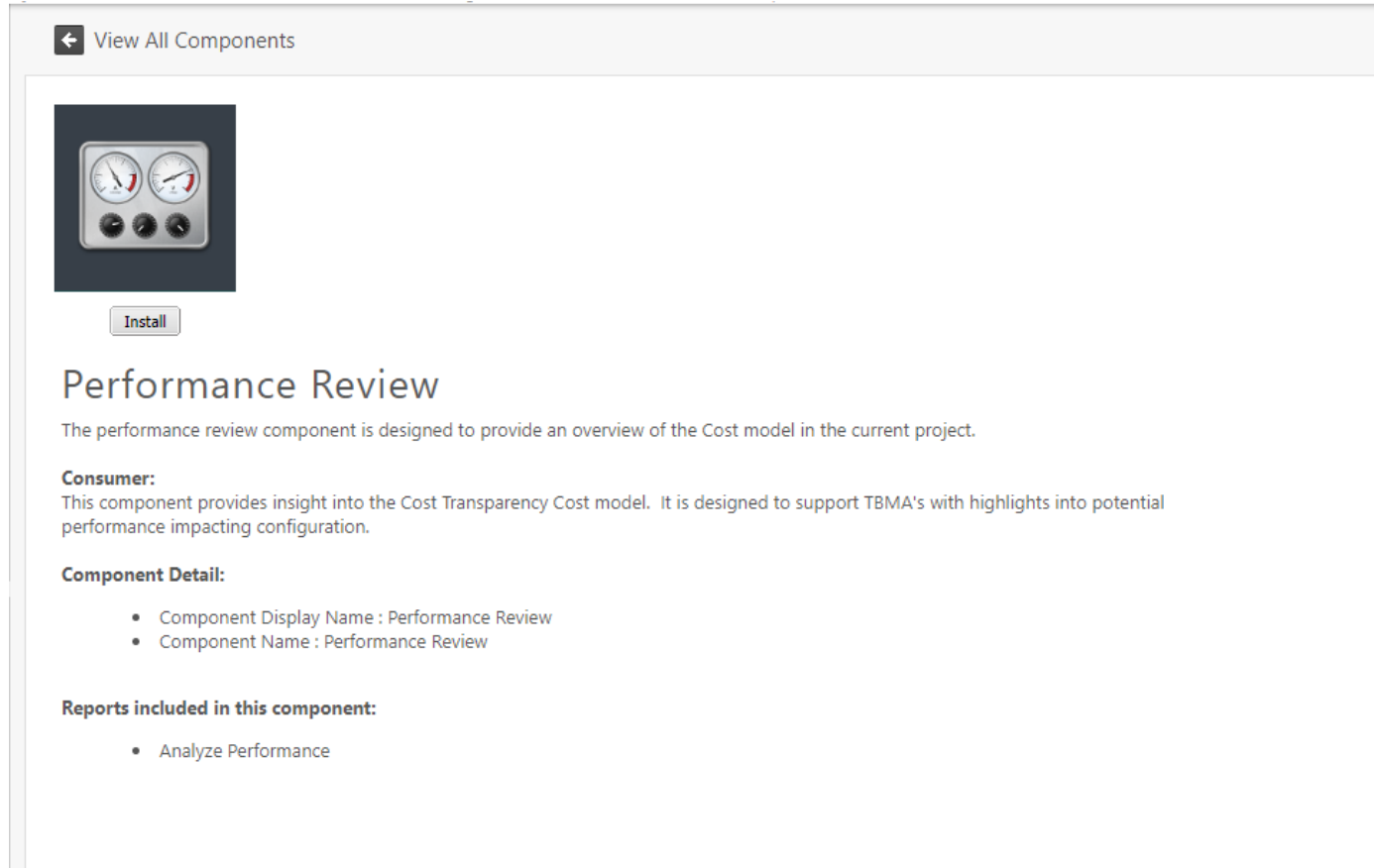
- Close the Edit Project Settings Dialog by clicking the Cancel Button
- Click the Components Button on the Project Ribbon



- Click the Performance Review component tile


Analyze Performance Component - Installation

- Click Install on the Component Installation interface



The screenshot shows a web interface for installing a component. At the top left, there is a back arrow and the text "View All Components". Below this is a dark square icon containing two white gauges. Underneath the icon is a button labeled "Install". The main content area has the title "Performance Review" and a description: "The performance review component is designed to provide an overview of the Cost model in the current project." Below the description are three sections: "Consumer:" with a paragraph, "Component Detail:" with a bulleted list, and "Reports included in this component:" with a bulleted list.

← View All Components



Install

Performance Review

The performance review component is designed to provide an overview of the Cost model in the current project.

Consumer:
This component provides insight into the Cost Transparency Cost model. It is designed to support TBMA's with highlights into potential performance impacting configuration.

Component Detail:

- Component Display Name : Performance Review
- Component Name : Performance Review

Reports included in this component:

- Analyze Performance

Analyze Performance Component - Installation

- Once the installation process completes, you should see the Analyze Performance Reports in the Project Explorer under Reports → Service Costing

The screenshot displays the APPTIO software interface. The top ribbon includes tabs for Home, Project, and Build, with various icons for actions like View, New, Save, Check Out, Check In, Revert Changes, Rename, Delete, Undo, Redo, Cut, Copy, Paste, Update Document, Update Workspace, Auto Calculate, Create Version, Remove Version, Export, and Recommendations. The Project Explorer on the left shows a tree view with folders for Tables, Editable Tables, Metrics, Perspectives, and Reports. Under Reports, the 'Service Costing' folder is expanded, showing sub-items like .Datasets, Analyze Performance (highlighted with an orange bar and 'Only for Apptio Admi...'), CT Quality - Benchmarking Rea..., and Cost Source. The main content area shows the 'Analyze Performance' report under the 'Overview' tab. The report title is 'Understand Key Performance Metrics' and it includes the following text:

Overview

This report is designed to help highlight some configuration pitfalls that are common in Apptio modelling.

The tables on the following tabs can be resource intensive, and can cause system slowness.

The components on the report are intended to be viewed in TBM Studio Development Mode only, and should not be added to report collections or marked as active.

The following reference information is additive to this report. [Improving Performance in your R12 Projects](#)

Use Case: Identifying Inefficient Allocations

- Examine AR table size.

Understand Key Performance Metrics

Overview Drill and Identifier Information Model Granularity Allocation Information Dataset Sizes Report Information

Drill and Identifier Review ⓘ

Drill Path	AR rows	Sparseness	Top Object Rows	Cost Source Rows	Worst Case Rows	Object	Unique Identifiers Across Time	Total Identifiers Across Time	Identifier Health Score	Top Object Identifier Rows	Top Object Grouping %	Approximate 12 Month Drill Size
Tickets Drill to Cost Source	129,133,200	0.9%	688536	21465	14779425240	Tickets	7,379,040	7,379,040	.00	614920	.89	
Servers Drill to Cost Source	11,853,870	3.1%	17961	21465	385532865	Servers	104,431	123,032	16.49	17934	1.00	78404674
Business Services Drill to Cost Source	8,008,200	2%	18300	21465	392809500	Business Services	18,140	213,540	99.82	17740	.97	8751643
Physical Server Drill to Cost Source	886,875	3.8%	1084	21465	23268060	Physical Server	1,075	12,900	100.00	1075	.99	967500
Cloud Service Provider Drill to Cost Source	700,185	0.1%	46690	21465	1002200850	Cloud Service Provider	341,358	342,892	.49	46690	1.00	156510975
Service Allocations Direct Drill to Cost Source	321,225	12.9%	116	21465	2489940	Service Allocations Direct	116	1,392	100.00	116	1.00	350427
Service Allocations Indirect Drill to Cost Source	234,360	0.1%	18300	21465	392809500	Service Allocations Indirect	907	10,677	99.82	887	.05	256117
Time Tracking Drill to Cost Source	137,040	0.7%	877	21465	18824805	Time Tracking	877	10,524	100.00	877	1.00	149498
Business Unit Allocation Drill to Cost Source	129,600	18.9%	32	21465	686880	Business Unit Allocation	32	384	100.00		.00	141382
Storage Drill to Cost Source	65,400	0%	15645	21465	335819925	Storage	117,794	120,341	2.31	15645	1.00	3090028
Hypervisor Drill to Cost Source	61,875	3.6%	80	21465	1717200	Hypervisor	80	960	100.00	80	1.00	67500
IT Resource Towers Drill to Cost Source	57,420	0.9%	302	21465	6482430	IT Resource Towers	354	3,745	98.78	256	.85	63414
Applications Drill to Cost Source	48,450	2%	115	21465	2468475	Applications	115	1,380	100.00	115	1.00	52855
Labor Drill to Cost Source	22,185	0.4%	230	21465	4936950	Labor	230	2,760	100.00	230	1.00	24202
Network Devices Drill to Cost Source	14,400	3.4%	20	21465	429300	Network Devices	20	240	100.00	20	1.00	15709
Projects Drill to Cost Source	12,960	1.5%	41	21465	880065	Projects	41	492	100.00	41	1.00	14138
End User Devices Drill to Cost Source	12,000	2.7%	21	21465	450765	End User Devices	20	240	100.00	20	.95	13091
Storage Devices Drill to Cost Source	7,410	1.3%	26	21465	558090	Storage Devices	26	312	100.00	26	1.00	8084
Data Centers Drill to Cost Source	2,640	1.5%	8	21465	171720	Data Centers	8	96	100.00	8	1.00	2880
Mainframes Drill to Cost Source	1,575	0.4%	20	21465	429300	Mainframes	20	240	100.00	20	1.00	1718
Fixed Asset Ledger Drill to Cost Source	1,515	0.1%	71	21465	1524015	Fixed Asset Ledger	78	852	99.10	71	1.00	1668

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Use Case: Identifying Inefficient Allocations

- Identifier health matters.

Understand Key Performance Metrics

Overview Drill and Identifier Information Model Granularity Allocation Information Dataset Sizes Report Information

Drill and Identifier Review ⓘ

Drill Path	AR rows	Sparseness	Top Object Rows	Cost Source Rows	Worst Case Rows	Object	Unique Identifiers Across Time	Total Identifiers Across Time	Identifier Health Score ▲	Top Object Identifier Rows	Top Object Grouping %	Approximate 12 Month Drill Size
Tickets Drill to Cost Source	129,133,200	0.9%	688536	21465	14779425240	Tickets	7,379,040	7,379,040	.00	614920	.89	
Cloud Service Provider Drill to Cost Source	700,185	0.1%	46690	21465	1002200850	Cloud Service Provider	341,358	342,892	.49	46690	1.00	156510975
Cloud Services Drill to Cost Source		0%	46690	21465	1002200850	Cloud Services	341,358	342,892	.49		.00	0
Storage Drill to Cost Source	65,400	0%	15645	21465	335819925	Storage	117,794	120,341	2.31	15645	1.00	3090028
Servers Drill to Cost Source	11,853,870	3.1%	17961	21465	385532865	Servers	104,431	123,032	16.49	17934	1.00	78404674
IT Resource Towers Drill to Cost Source	57,420	0.9%	302	21465	6482430	IT Resource Towers	354	3,745	98.78	256	.85	63414
Fixed Asset Ledger Drill to Cost Source	1,515	0.1%	71	21465	1524015	Fixed Asset Ledger	78	852	99.10	71	1.00	1668
Consumption Feed Drill to Cost Source		0%	846	21465	18159390	Consumption Feed	866	10,185	99.81		.00	0
Business Services Drill to Cost Source	8,008,200	2%	18300	21465	392809500	Business Services	18,140	213,540	99.82	17740	.97	8751643
Service Allocations Indirect Drill to Cost Source	234,360	0.1%	18300	21465	392809500	Service Allocations Indirect	907	10,677	99.82	887	.05	256117
Acme Labor People Mapping Drill to Cost Source	64	0%	170	21465	3649050	Acme Labor People Mapping	170	2,040	100.00	170	1.00	70
Applications Drill to Cost Source	48,450	2%	115	21465	2468475	Applications	115	1,380	100.00	115	1.00	52855
Service Allocations Direct Drill to Cost Source	321,225	12.9%	116	21465	2489940	Service Allocations Direct	116	1,392	100.00	116	1.00	350427
Business Unit Allocation Drill to Cost Source	129,600	18.9%	32	21465	686880	Business Unit Allocation	32	384	100.00		.00	141382
Communications Drill to Cost Source		0%	64	21465	1373760	Communications	64	768	100.00	64	1.00	0
End User Devices Drill to Cost Source	12,000	2.7%	21	21465	450765	End User Devices	20	240	100.00	20	.95	13091
Contracts to Applications Master Data Drill to Cost Source		0%	14	21465	300510	Contracts to Applications Master Data	13	156	100.00		.00	0
Cost Source Drill to Cost Source		0%	21465	21465	460746225	Cost Source	16,365	196,380	100.00	16365	.76	0
Other Cost Pools Drill to Cost Source	240	0%	84	21465	1803060	Other Cost Pools	74	888	100.00	74	.88	262

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Use Case: Small Rows

- Identifying where low value rows may contributing to long calc times.

Understand Key Performance Metrics

Overview Drill and Identifier Information Model Granularity Allocation Information Dataset Sizes Report Information

Model Review ⓘ

Object	Cost	Absolute Value	Unassigned	Assigned	% Assigned	Total Rows	10 to -10 Rows	Cost Of 10 to -10 Rows	AbCost	Dollars Per Row	Dollars Per Small Row	Percent of Rows Small	Percent of Cost Small
Communications	\$0	\$0	\$0	\$0	0%	64	64	.00	.00	.00	.00	100.00%	
Tickets	\$651,094	\$651,094	\$0	\$651,094	100%	614,920	614608	646388.34	651093.75	1.06	1.05	99.95%	99.28%
Storage	\$1,655,392	\$1,655,392	\$1,125,708	\$529,684	32%	15,645	15427	.00	1655391.90	105.81	.00	98.61%	.00%
Other Cost Pools	\$5,082,405	\$5,082,405	\$0	\$5,082,405	100%	74	59	.00	5082404.55	68681.14	.00	79.73%	.00%
Cost Source	\$52,529,883	\$52,529,883	\$258,463	\$52,469,285	99.88%	16,365	12045	702.00	52529882.87	3209.89	.06	73.60%	.00%
Service Allocations Indirect	\$13,827,733	\$13,827,733	\$0	\$13,827,733	100%	887	575	.00	13827733.13	15589.33	.00	64.83%	.00%
Acme Labor People Mapping	\$7,403,320	\$7,403,320	\$202,500	\$7,200,820	97.26%	170	106	.00	7403320.00	43548.94	.00	62.35%	.00%
Vendors	\$19,950,799	\$19,950,799	\$2,116,118	\$17,834,681	89.39%	112	57	.00	19950798.95	178132.13	.00	50.89%	.00%
Business Services	\$23,704,517	\$23,704,517	\$0	\$23,704,517	100%	17,740	6360	.00	23704516.77	1336.22	.00	35.85%	.00%
Labor	\$19,358,665	\$19,358,665	\$0	\$19,358,665	100%	230	78	.00	19358665.00	84168.11	.00	33.91%	.00%
Fixed Asset Ledger	\$7,879,552	\$7,879,552	\$0	\$7,879,552	100%	71	19	.00	7879551.60	110979.60	.00	26.76%	.00%
Mainframes	\$3,098,794	\$3,098,794	\$3,098,794	\$0	0%	20	5	.00	3098793.53	154939.68	.00	25.00%	.00%
IT Resource Towers	\$48,719,364	\$48,719,364	\$5,218,432	\$43,500,933	89.29%	256	37	.00	48719364.22	190310.02	.00	14.45%	.00%
Hypervisor	\$81,583	\$81,583	\$0	\$81,583	100%	80	5	.00	81582.70	1019.78	.00	6.25%	.00%
Servers	\$5,847,513	\$5,847,513	\$1,360,638	\$4,486,875	76.73%	17,934	20	.00	5847513.19	326.06	.00	.11%	.00%
Cloud Service Provider	\$543,872	\$543,872	\$0	\$543,872	100%	46,690	11	.00	543871.80	11.65	.00	.02%	.00%
Applications	\$11,465,551	\$11,465,551	\$6,808	\$11,458,742	99.94%	115	0	.00	11465550.65	99700.44		.00%	.00%
Service Allocations Direct	\$9,876,784	\$9,876,784	\$0	\$9,876,784	100%	116	0	.00	9876783.63	85144.69		.00%	.00%
End User Devices	\$4,390,050	\$4,390,050	\$0	\$4,390,050	100%	20	0	.00	4390050.25	219502.51		.00%	.00%

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Use Case: Data Set Size

- Quickly seeing the largest allocation

Understand Key Performance Metrics

Overview Drill and Identifier Information Model Granularity Allocation Information Dataset Sizes Report Information

Allocation Review ⓘ

Driver	From Object	To Object	Tags	Value	% Alloc	Row Count	Cardinality
IT Resource Towers	IT Resource Towers	Tickets	*,-App Dev_Budget,-App Dev_CapEx,-App Dev_CapEx Budget,-Benchmark,-Billable Units,-Budget,-Business Budget,-Business Forecast,-CapEx,-CapEx Budget,-CapEx Fixed,-CapEx Forecast,-CapEx Planned,-CapEx Variable,-Charge,-Cloud Invoice,-Fixed Forecast,-Fixed Planned,-Forecast,-Forecast Depreciation,-O365,-Opportunity,-Payables,-Planned,-Planned Billable Units,-Planned Depreciation,-Planned Price,-Planned Setup Fee,-Planned Shutdown Fee,-Potential Savings,-Price,-Project Investments_CapEx,-ProjectGroups,-Projects,-SaaS Costs,-SaaS Licenses,-Source Data Management,-Supply,-TemplateGroups,-Tickets,-Variable Forecast,-Variable Planned	\$651,094	1.34%	1844760	Unknown
Tickets	Tickets	Applications	*,-App Dev_Budget,-App Dev_CapEx,-App Dev_CapEx Budget,-Benchmark,-Billable Units,-Budget,-Business Budget,-Business Forecast,-CapEx,-CapEx Budget,-CapEx Fixed,-CapEx Forecast,-CapEx Planned,-CapEx Variable,-Charge,-Cloud Invoice,-Fixed Forecast,-Fixed Planned,-Forecast,-Forecast Depreciation,-O365,-Opportunity,-Payables,-Planned,-Planned Billable Units,-Planned Depreciation,-Planned Price,-Planned Setup Fee,-Planned Shutdown Fee,-Potential Savings,-Price,-Project Investments_CapEx,-ProjectGroups,-Projects,-SaaS Costs,-SaaS Licenses,-Source Data Management,-Supply,-TemplateGroups,-Tickets,-Variable Forecast,-Variable Planned	\$346,914	53%	311432	Many-to-one
Tickets_1	Tickets	Applications	Cost	\$304,180	47%	303488	Many-to-one
IT Resource Towers_6	IT Resource Towers	Servers	App Dev_Cost,Cost	\$3,556,051	7.3%	97506	Unknown
End User Devices	End User Devices	Business Services	*,-App Dev_Budget,-App Dev_CapEx,-App Dev_CapEx Budget,-Benchmark,-Billable Units,-Budget,-Business Budget,-Business Forecast,-CapEx,-CapEx Budget,-CapEx Fixed,-CapEx Forecast,-CapEx Planned,-CapEx Variable,-Charge,-Cloud Invoice,-Fixed Forecast,-Fixed Planned,-Fixed RI Cost,-Forecast,-Forecast Depreciation,-O365,-Opportunity,-Payables,-Planned,-Planned Billable Units,-Planned Depreciation,-Planned Price,-Planned Setup Fee,-Planned Shutdown Fee,-Potential Savings,-Price,-Project Investments_CapEx,-ProjectGroups,-Projects,-SaaS Costs,-SaaS Licenses,-Shared Cloud Infra,-Source Data Management,-Supply,-TemplateGroups,-Tickets,-Usage Cost,-Variable Forecast,-Variable Planned	\$4,390,050	100%	64000	Unknown
Cloud Service Provider	Cloud Service Provider	IT Resource Towers	*,-App Dev_Budget,-App Dev_CapEx,-App Dev_CapEx Budget,-Benchmark,-Billable Units,-Budget,-Business Budget,-Business Forecast,-CapEx,-CapEx Budget,-CapEx Fixed,-CapEx Forecast,-CapEx Planned,-CapEx Variable,-Charge,-Cloud Invoice,-Fixed Forecast,-Fixed Planned,-Fixed RI Cost,-Forecast,-Forecast Depreciation,-O365,-Opportunity,-Payables,-Planned,-Planned Billable Units,-Planned Depreciation,-Planned Price,-Planned Setup Fee,-Planned Shutdown Fee,-Potential Savings,-Price,-Project Investments_CapEx,-ProjectGroups,-Projects,-SaaS Costs,-SaaS Licenses,-Shared Cloud Infra,-Source Data Management,-Supply,-TemplateGroups,-Tickets,-Usage Cost,-Variable Forecast,-Variable Planned	\$543,872	100%	46679	Many-to-many

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Use Case: Compare by Environment

- Compare workspace configuration against Stage

Current Model: Cost | [Edit in the Performance Review Config table to modify.](#)

[Allocation Information](#)
[Drill and Identifier Information](#)
[Model Granularity](#)
[Focus Drills](#)
[Comparison By Environment](#)
[Compare To Trunk](#)
[Model Pat](#)

Staging Values Compared to Current Workspace Current Model: Cost | Bottom Object: Cost Source | [Edit in the Performance Review](#)

Object	Drill Sizes				Identifier Counts			
	Stage AR rows	Workspace AR rows	AR Change	AR-S ▼	Top Object Staging Identifier Rows	Top Object Workspace Identifier Rows	Top Object Identifier Change	ID-S
Labor	1,446	125,096	123,650	1.00	152	152	0	.00
Vendors	122	120	-2	.00	85	84	-1	1.00
Fixed Asset Ledger	101	101	0	.00	71	71	0	.00

Use Case: Review Preloaded Reports

- Identify what reports that need to be deactivated for pre-calculation

Report Information Dataset Sizes Transform Versions Size Trends Logged In Users						
Report Information						
Report Id	Title	Preload	Customized	Last Mod Date	Last Mod By	Access
932	tab:Service Costing	true	Out of the Box	Tue Oct 12 02:23:35 PDT 2021	garora@apptio.com	
1548	tab:Apptio Value Explorer	true	Out of the Box	Thu May 13 07:51:37 PDT 2021	prigupta@apptio.com	
705	Vendors Validity	true	Out of the Box	Fri Feb 06 15:03:23 PST 2015	cchemis@apptio.com	
1815	Vendors Master Report template	true	Out of the Box	Wed Dec 29 16:50:46 PST 2021	Bootstrap	
1484	Vendor Type Details	true	Out of the Box			
1568	Vendor Spend by Project	true	Out of the Box	Mon Mar 08 10:28:49 PST 2021	asiddiq@apptio.com	
1567	Vendor Review	true	Out of the Box	Mon Mar 08 10:27:03 PST 2021	asiddiq@apptio.com	
1782	Vendor Project Master Report template	true	Out of the Box	Wed Dec 29 16:50:46 PST 2021	Bootstrap	
1491	Vendor Portfolio	true	Out of the Box			
1515	Vendor List	true	Out of the Box			

Usage Project

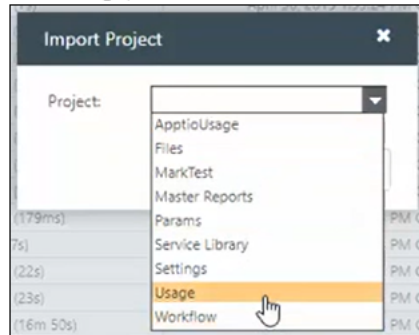
Usage Project - Installation

- <https://help.apptio.com/en-us/studio/admin/monitor-engagement-apptio.htm>

Enable the Apptio Usage dashboard

Apptio Usage is available in TBM Studio versions 12.7.1 and later. Once you have upgraded, you must import the **Usage** project to your environment.

1. In TBM Studio, from the **Settings** (⚙️) menu, click **Import**.
2. Click **Usage**, then click **OK**.



Wait for the project to calculate. Calculations might take more than an hour, depending on the complexity of your project.

3. After calculations are complete, on the **Settings** menu, click **Access Administration**. Alternatively, you can log in to Frontdoor, and navigate to **Access Administration**.
4. In the **Applications** tab, next to **Usage**, click **Show** to make it visible.

💡 If you want to further modify role access, click **Edit Visibility**.

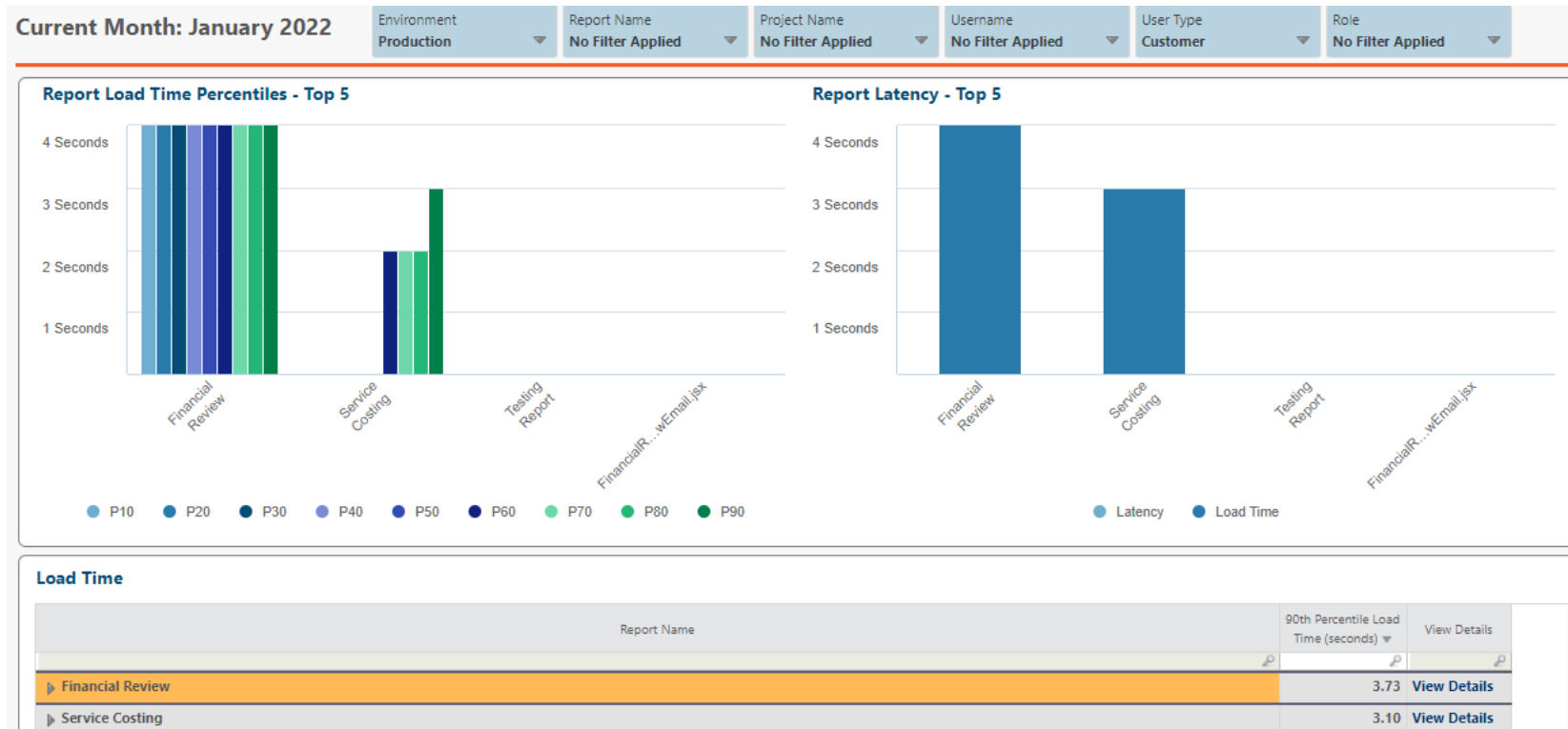
Use Case – Report Usage

- Identify Important Reports



Use Case – Report Performance

- Review Load Times for Reports



Configuration Insights

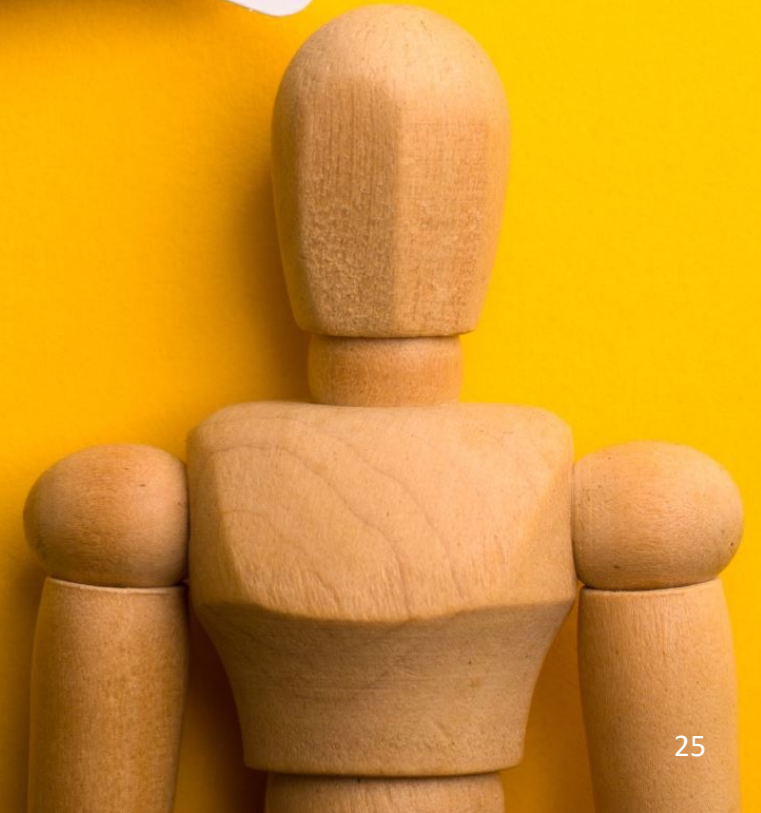
Configuration Insights

- Review Configuration Recommendations

The screenshot displays the Configuration Insights interface. At the top, a toolbar contains several icons: 'Update Document', 'Update Workspace', 'Auto Calculate', 'Create Version', 'Remove Version', 'Export', and 'Recommendations' (which has a red notification badge with the number '1'). Below the toolbar, there are two sections: 'Updates' and 'Versions'. The main content area is currently empty, represented by a large grey rectangle. On the right side, a 'Configuration Recommendations' panel is visible, featuring a close button (X) and three filter dropdowns: 'Build' (set to 'All'), 'Status' (set to 'Unresolved'), and 'Recommendation Type' (set to 'All'). Below these filters, a summary item is shown: 'Legacy model join operation used. (3)' with a downward arrow.

Discussion

- Do you have any specific environmental challenges you are facing right now?
- Have you had any environment challenges you were able to overcome? How?



Configuration Recommendations

Common Performance Impacting Items

- *Allocation rowcount above 100,000 rows*
- *Missing object identifier*
- *No data relationship for allocations*
- *High object granularity with low relationship granularity*
- *Nested formulas*
- *Same step Formula dependencies*
- *20+ columns selected for object identifier*
- *Branch with bad config*
- *Inference in R12*
- *Multiple lookupex/splitex in same formula step*
- *Inefficient lookups*
- *"Send only remaining values"*
- *Excessive Report Granularity*
- *All in One" reports rather than "Purpose Built" reports*
- *Transform Pipeline with excessive steps and/or data manipulation*
- *Project with over 3 years open*
- *Specific object causing entire model to slow down*
- *Nested double sumif() formulas*
- *Multiple tablematch() formulas in same formula step*
- *Modeled Tables with excessive data manipulation*
- *Cost Source object above 10k row count*
- *Very high cell count tables (rows x columns)*
- *Excessive amount of modeled metrics*
- *Excessive unused allocations*
- *Validation reports in PROD*

Review Missing Object Identifiers

- <https://community.apptio.com/viewdocument/best-practices-variable-granularit?CommunityKey=3ff74a27-8291-48d0-ba5a-403be94d07b8&tab=librarydocuments>

⚠ This document is read only - check it out to make changes.

Steps < **Model** ⓘ Allocate costs and other values.

Source Select a metric: Cost > Example Table Test

Existing Table

Table

Model

OBJECT: Example Table Test

Object: Example Table Test

Table

Rows Complete

Tier for System Generated Overviews:
System generated model overviews will automatically categorize this object into the following tier. This will affect the default metric overview, and traces from model overview reports.

New

Use object identifier

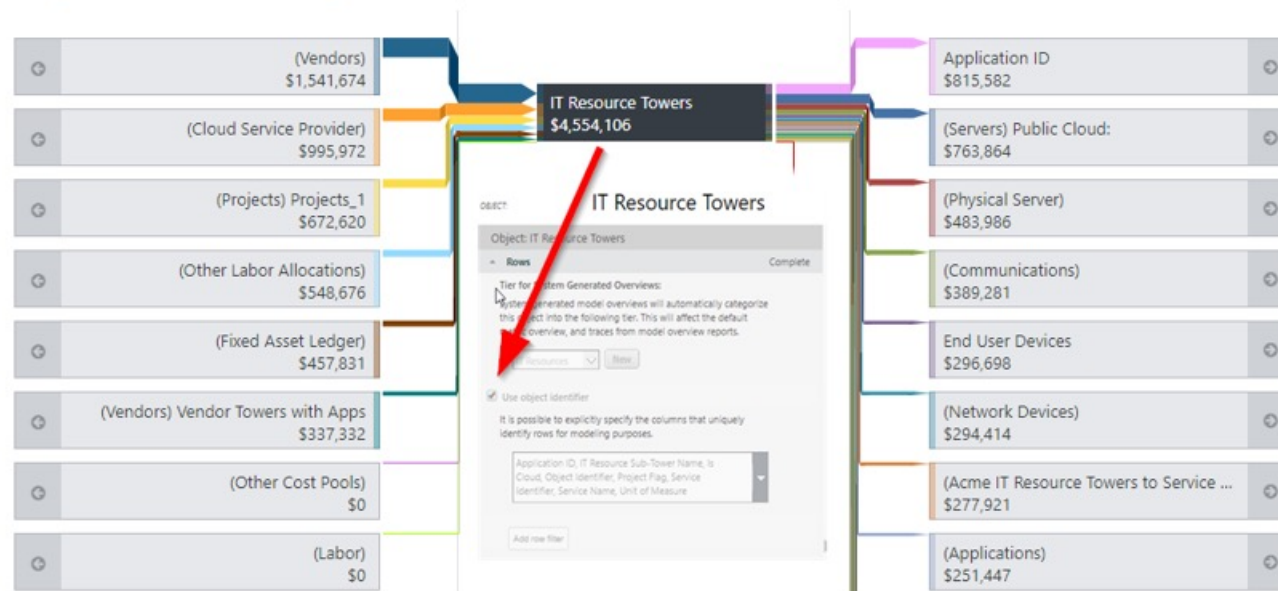
It is possible to explicitly specify the columns that uniquely identify rows for modeling purposes.

Add row filter

+	Cost
	\$5,230,638

Optimize your Object Identifiers

- Object Identifiers should be optimized to accomplish their only two goals with the fewest amount of rows:
 - Allow allocations to flow correct value amounts
 - Provide correct reporting granularity
- Focus on what you need today, not the future



Improve Allocation Relationships

- Optimize data relationship strategy to utilize “From” filter as it does help with calculation. The “To” filter does not help with calculation.
 - Allocation strategy rowcounts do include the filter so it is possible that the actual calculated rows are higher than the final result listed in the allocation strategy report
- “To Filters”, “Weightings”, and Remainders HIDE allocation rowcount and do not improve allocation size.
- If you suspect an allocation is creating much more rows than is displayed, try removing the “To Filter”, “Weighting”, and Remainder of the suspected allocation. Then check the rowcount size again.

ALLOCATION TO: VENDORS

Cost Source

From: Cost Source where Vendor ID Is Not Null AND Cost Pool Does Not Contain 'Labor' AND C... Complete

Choose the source of values for this rule. **Helps calculation**

Send only remaining values (after the other rules run)

Where

- ...st.Source Master Data.Vendor ID [v] [Is Not Null] [v] (0) ✕
- AND
- ...st.Source Master Data.Cost Pool [v] [Does Not Contain] [v] Labor (0) ✕
- AND
- ...urce Master Data.Cost Sub Pool [v] [Does Not Contain] [v] Depreciation (0) ✕
- AND
- ...urce Master Data.Application ID [v] [Is Null] [v] (0) ✕

Add condition

Allocate: All except AWS Charges, Agile Activity, Agile Dev Budget, Agile Dev Cost, App Dev_Budge... Complete

Using: Weighted Value Complete

To: Vendors where Application ID Is Null Complete

Choose the object to allocate to. **Does not help calculation**

Vendors [v]

Where

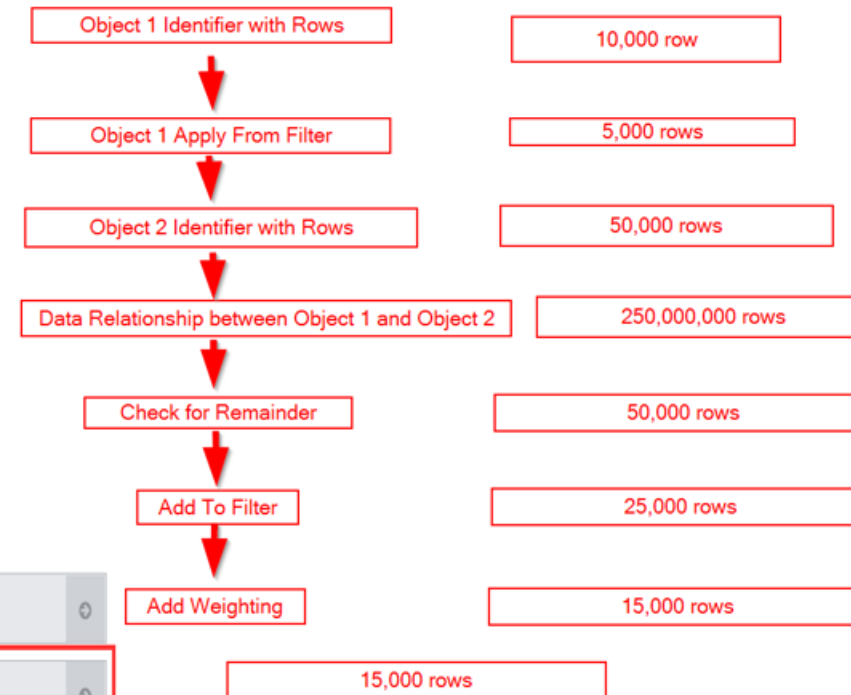
- ...ndor Master Data.Application ID [v] [Is Null] [v] (0) ✕

Add condition

Improve Allocation Relationships

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Driver	From Object	To Object	Row Count
Remain Hypervisors to Servers	Hypervisor	Servers	117873925



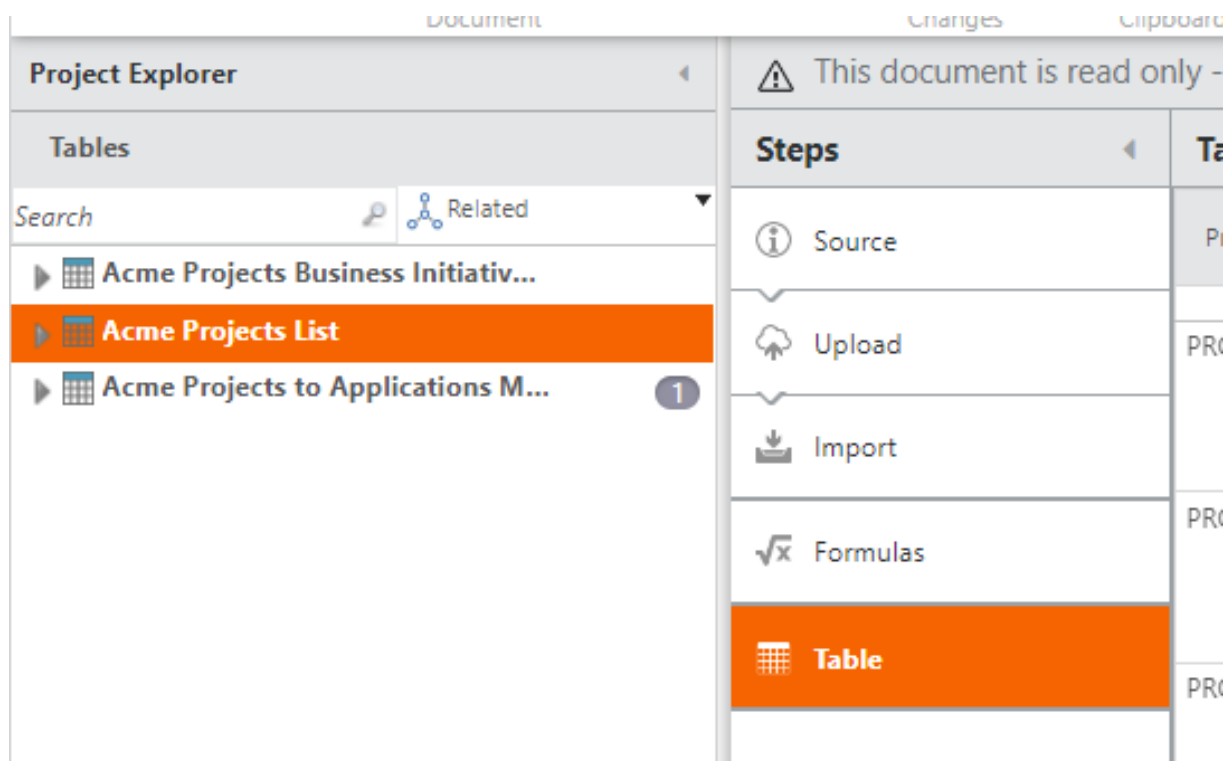
Improve Amount of Allocations

The screenshot shows the TBM Studio interface with the 'Modeled Metric' table. The table has three columns: 'Driver', 'From Object', and 'From Filter'. The first row is 'Cloud Service Provider' with 'Cloud Service Provider' in the 'From Object' column. The second row is 'Vendor Allocation For Non-Payments' with 'Cost Source' in the 'From Object' column and 'HERE Cost Source Master Data.Description Equals Vendor Non Payment Allocation' in the 'From Filter' column. A red arrow points to the value '201' in the bottom right corner of the table, which is highlighted with a red box.

- Use the lowest # of allocations possible, per metric
 - Average #of allocations for CT ~ 60
 - >100 allocations can contribute to noticeable slowness although there is no limit
- Remove unused allocations
 - All allocations calculate no matter if they are allocating \$0 or \$10,000,000
- Only use the metrics required
 - If an allocation is created for Fixed and Variable, having Cost there is just adding an additional allocation

The screenshot shows the 'Allocate' dialog box. The 'From' field is 'IT Resource Towers where RU Code I...'. The 'Allocate' field is 'Cost, Fixed, Variable'. The 'Select the metrics to which this rule should apply.' section shows 'Cost', 'Fixed', and 'Variable' selected, with 'App Dev_Budget' also visible.

Remove Unused Tables



Unused Documents

- [Documentation](#)
- Purpose
 - To identify unused documents within the environment to assist with improving performance
- Use Case
 - Routine environment maintenance to safely remove unused documents
 - Identify documents with no dependencies and validate dependency removal

Document ▲	Type	Source
ATUM Cost Classification Reference	Table	User Introduced
Cost Center Owners ET Test	Table	User Introduced
Data Expiration Test	Table	User Introduced
ITP Cost Object Permissions	Table	User Introduced
ITP Labor External Line Items	Table	User Introduced
ITP Labor Tab Load	Table	User Introduced
ITPF Forecast Append	Table	User Introduced
OpEx CapEx Classification Reference	Table	User Introduced
Project Cost Test	CalculatedMetric	User Introduced
Rules Org TM	Table	User Introduced
Testing Custom Metric	CalculatedMetric	User Introduced
Testing Project Activity Internal	Table	User Introduced

Reduce Amount of Lookups

- Creating a metadata string to reduce the amount of lookups into a table

Column Name	Description	Type	Formula
Vendor String		A	=Vendor ID& "&Vendor Name& "&{Is CSP?}& "&Vendor Type& "&Vendor Function& "&Vendor Primary Service& "&Vendor Location& "&Service Location& "&User Interaction& "&Vendor Manager& "&Vendor Owner& "&Contract Rate& "&Annual Target Spend


Cost Center Name		A	=Trim(Split(Cost Center Owner String,2," "))
Cost Center Owner		A	=Trim(Split(Cost Center Owner String,5," "))
Cost Center Owner String		A	=Lookup(Functional Unit,Cost Center Owner Mapping,Fun
Is CSP		A	=Trim(Split(Vendor Data String,3," "))
Owner		A	=Trim(Split(Cost Center Owner String,3," "))
Service Location		A	=Trim(Split(Vendor Data String,8," "))
Vendor Data String		A	=Lookup(Vendor ID,Acme Vendors Data,Vendor ID,Vendor
Vendor List String		A	="String"& "&Is CSP& "&Vendor Location& "&Ve Contact& "&Vendor Function& "&Vendor Owner&
Vendor Location		A	=Trim(Split(Vendor Data String,7," "))
Vendor Manager		A	=Trim(Split(Vendor Data String,10," "))
Vendor Type		A	=Trim(Split(Vendor Data String,4," "))


Update Report Calculation Periods

- Reduce the amount of periods for pre-calculated reports


Project Calculation (Admin Only) ✕

By Range

First Date for Reports:
 

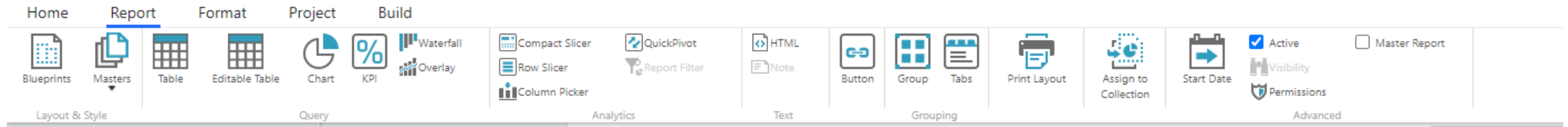
Last Date for Reports:
 

By Individual Months



Deactivating Unused Reports

- Deactivate unused reports for calculations in Stage/Prod



Additional Apptio Support Tools

- Technical health assessment
- Model review
- Splunk report

Summary of Tuning Apptio Performance



Analyze Performance Component



Leveraging Usage Report for Performance



Configuration Insights



Configuration Recommendations

Questions?



Surveys

Please take a few moments to fill out the class survey.
Your feedback is extremely important for future events.

Thank You For Attending Rego University

Instructions for PMI credits

- Access your account at pmi.org
- Click on **Certifications**
- Click on **Maintain My Certification**
- Click on **Visit CCR's** button under the **Report PDU's**
- Click on **Report PDU's**
- Click on **Course or Training**
- Class Provider = **Rego Consulting**
- Class Name = **regoUniversity**
- Course **Description**
- Date Started = **Today's Date**
- Date Completed = **Today's Date**
- Hours Completed = **1 PDU per hour of class time**
- Training classes = **Technical**
- Click on **I agree** and **Submit**



Let us know how we can improve!
Don't forget to fill out the class survey.



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