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NASHVILLE • 2022

# Checking Your Apptio Environment's Health, Optimizing, and Tuning It

**Your Guides:**

Eric Chan and Vu Nguyen

# Part I: Introduction



# Agenda

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

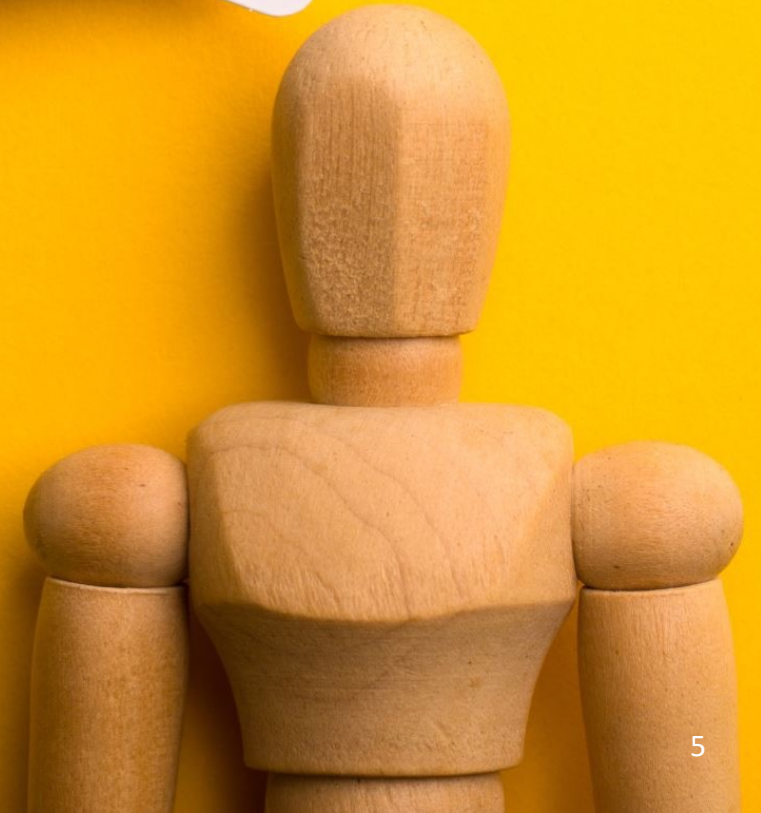
# Introductions

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- 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



# Analyze Performance Component

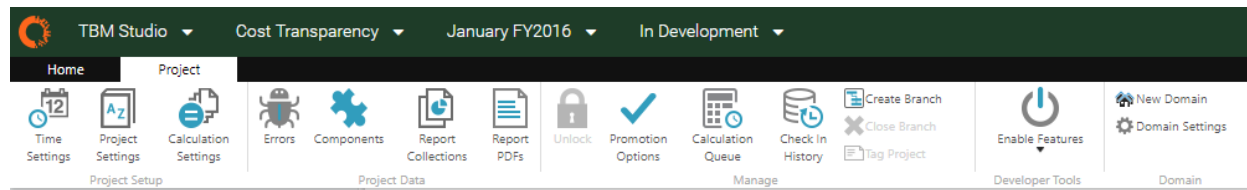




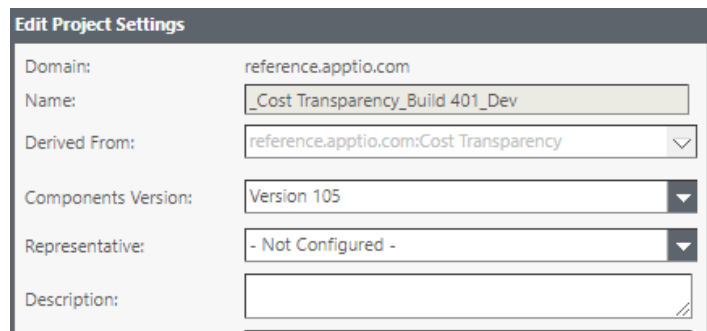
# Analyze Performance Component - Installation

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



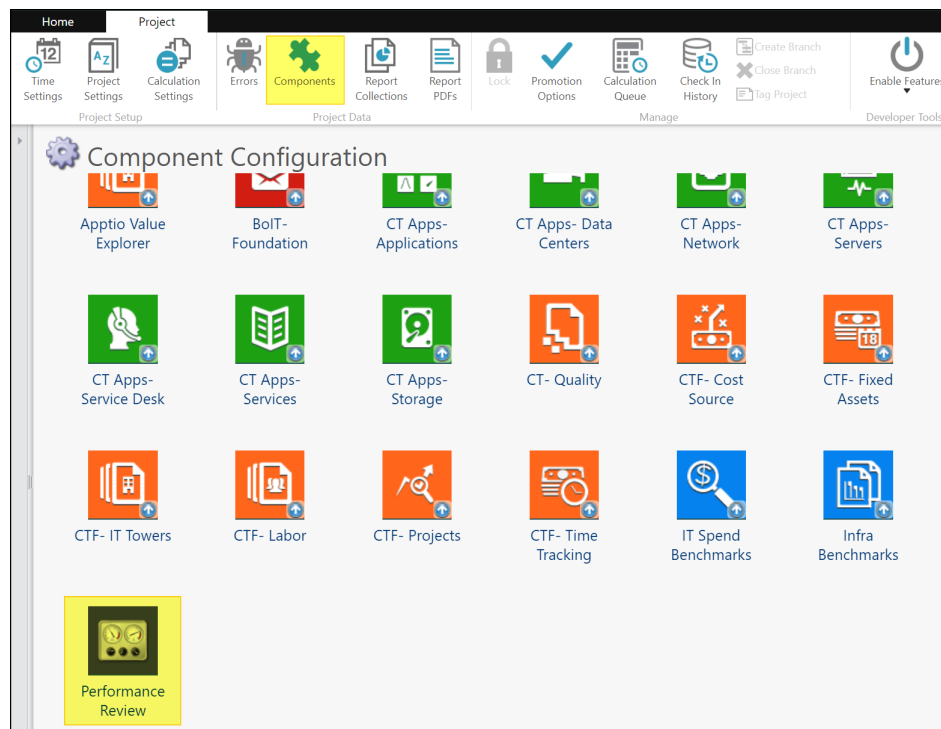
- Validate that Content Version is 105 (if it not, instructions for installing from other versions follow)

A screenshot of the 'Edit Project Settings' dialog box. The dialog has a title bar 'Edit Project Settings' and several fields:

- Domain: reference.apptio.com
- Name: \_Cost Transparency\_Build 401\_Dev
- Derived From: reference.apptio.com:Cost Transparency (dropdown)
- Components Version: Version 105 (dropdown)
- Representative: - Not Configured - (dropdown)
- Description: (text area)

# Analyze Performance Component - Installation

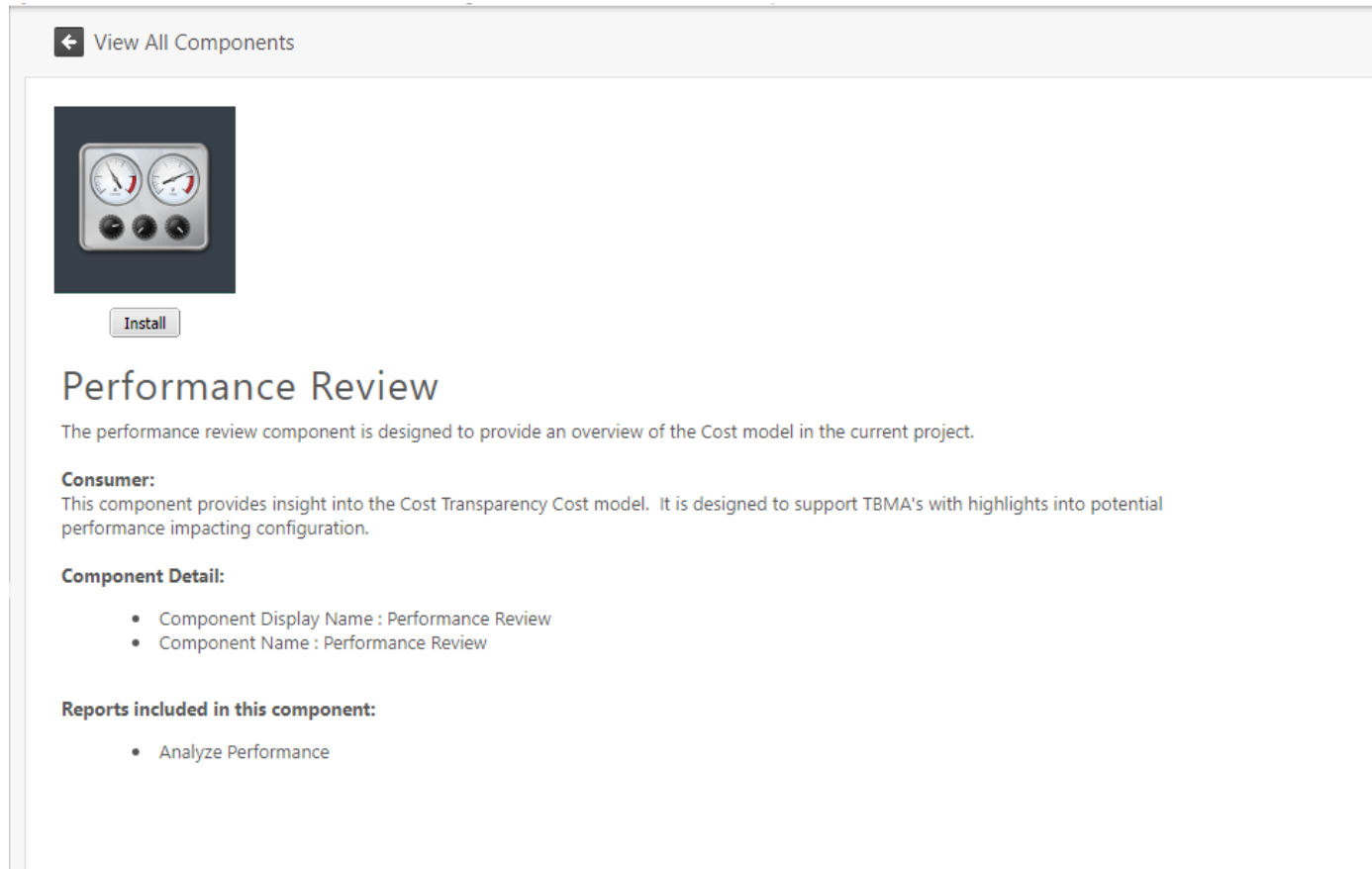
- Close the Edit Project Settings Dialog by clicking the Cancel Button
- Click the Components Button on the Project Ribbon



- 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" in a large font. Below the title is a paragraph: "The performance review component is designed to provide an overview of the Cost model in the current project." This is followed by a section titled "Consumer:" with a paragraph: "This component provides insight into the Cost Transparency Cost model. It is designed to support TBMA's with highlights into potential performance impacting configuration." Next is a section titled "Component Detail:" with a bulleted list: "Component Display Name : Performance Review" and "Component Name : Performance Review". Finally, there is a section titled "Reports included in this component:" with a bulleted list: "Analyze Performance".

← 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 an 'Overview' section with the following text:

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

Page 1 of 2 Displaying 1 - 23 of 30

# 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

⏪ Page 1 of 2 ⏩ Displaying 1 - 23 of 30

# 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%	.00%
Service Allocations Direct	\$9,876,784	\$9,876,784	\$0	\$9,876,784	100%	116	0	.00	9876783.63	85144.69	.00	.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%	.00%

Page 1 of 2 Displaying 1 - 23 of 25

# 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

Page 1 of 3 Displaying 1 - 23 of 65



# 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 precalculation

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



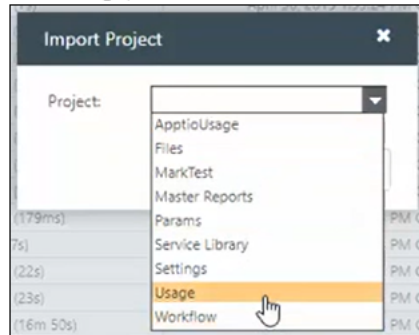
# Usage Project - Installation

- <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**.



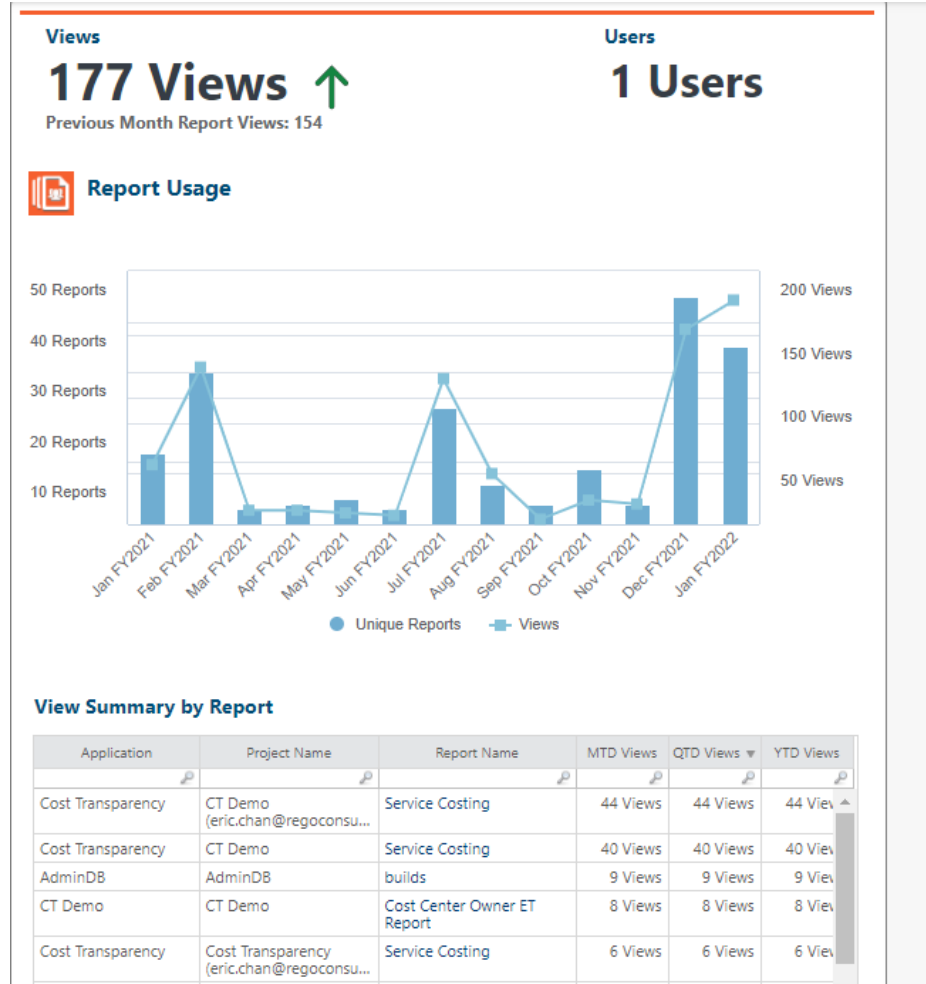
Wait for the project to calculate. Calculations might take more than an hour, depending on the complexity of your project.

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**.

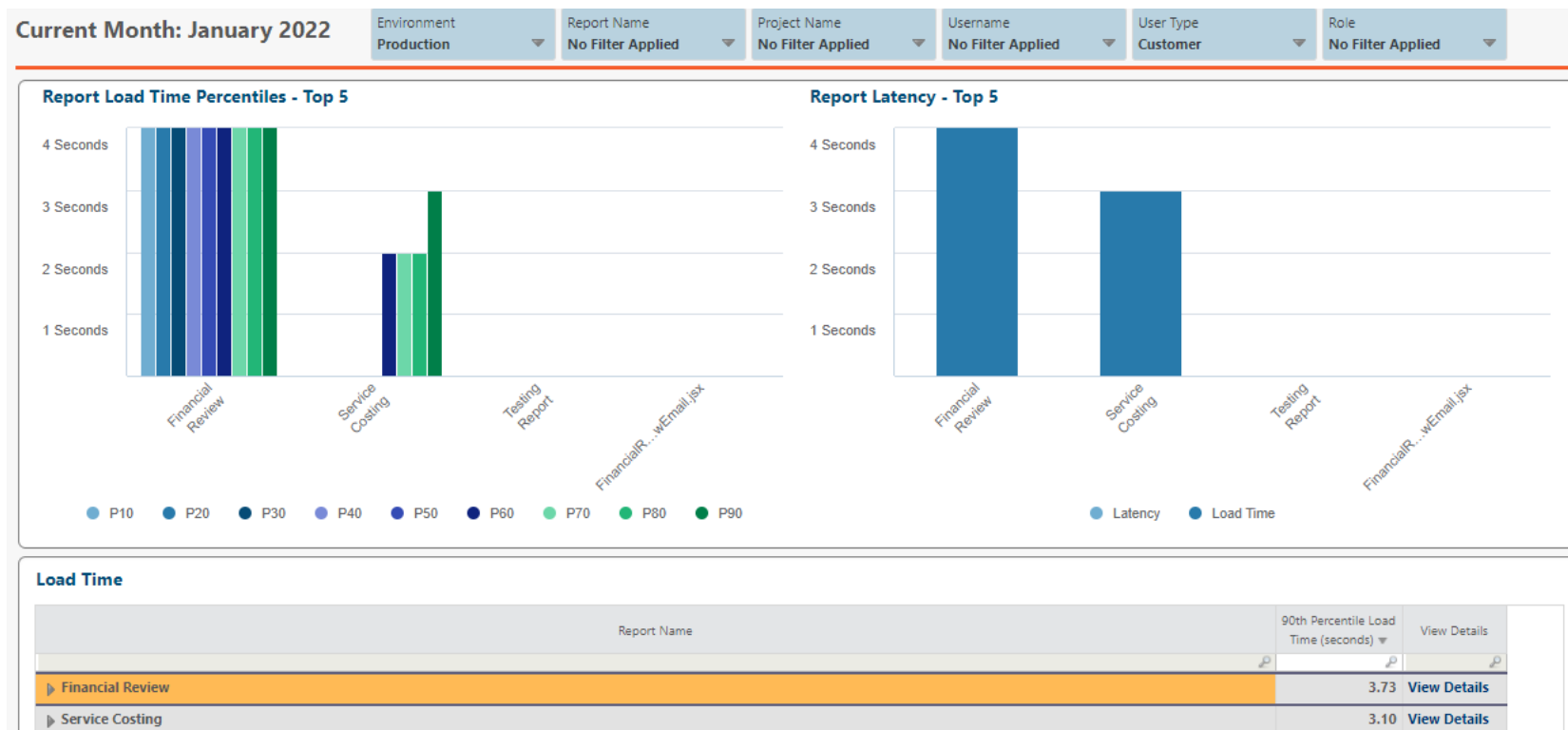
# Use Case – Report Usage

- Identify Important Reports



# Use Case – Report Performance

- Review Load Times for Reports



# Configuration Insights



# Configuration Insights

- Review Configuration Recommendations

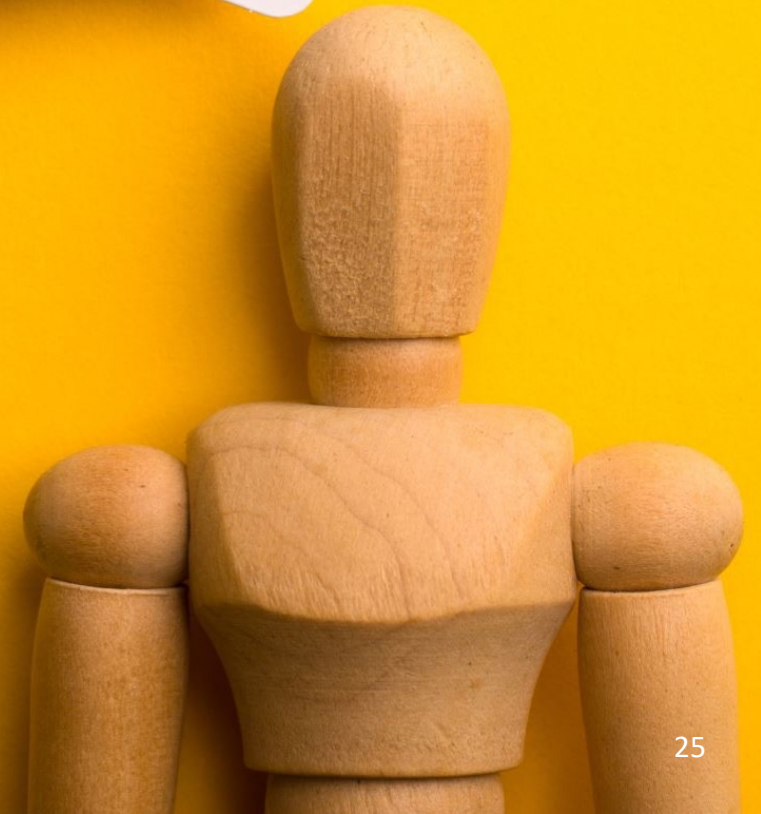
The screenshot displays a software interface with a top toolbar and a right-hand panel. The toolbar includes icons for 'Update Document', 'Update Workspace', 'Auto Calculate', 'Create Version', 'Remove Version', 'Export', and 'Recommendations' (with a red notification badge '1'). Below the toolbar are sections for 'Updates' and 'Versions'. The right-hand panel, titled 'Configuration Recommendations', contains three filter dropdowns: 'Build' set to 'All', 'Status' set to 'Unresolved', and 'Recommendation Type' set to 'All'. Below these filters, a summary item reads '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



# 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

# 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 Project Editable Periods

- Reduce the amount of editable periods

### Reconfigure Project Time Settings ✕

#### Fiscal Year Definition

Calendar Type:

The Fiscal Year is Defined By:

Starting Month of Fiscal Year:

Display Month or Period Names:

Checking in a project time settings change will cause a full re-calculation of your project and may result in a longer calculation.

#### Project Time Span Definition

Start of Project:

End of Project:

Enable Default Time Period

Default Time Period:

#### Editable Periods

Closed Months:

# Update Report Calculation Periods

- Reduce the amount of periods for pre-calculated reports

**Project Calculation (Admin Only)** ✕

By Range

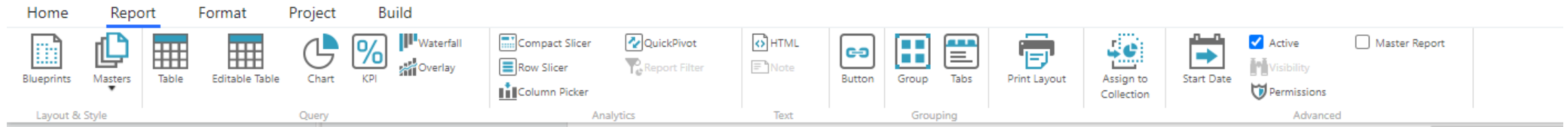
First Date for Reports:

Last Date for Reports:

By Individual Months

# Deactivating Unused Reports

- Deactivate unused reports for calculations in Stage/Prod



# Summary of Tuning Apptio Performance



Analyze Performance Component



Leveraging Usage Report for Performance



Configuration Insights



Configuration Recommendations



# ApptioOne TBM Studio Demo



# Questions?

