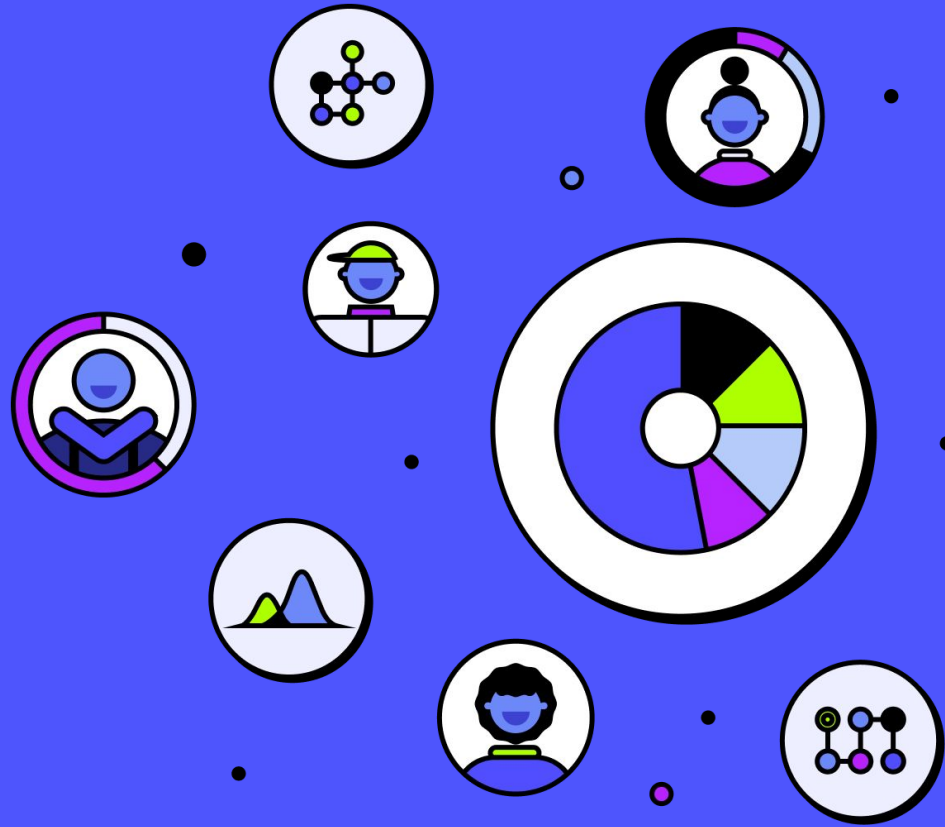
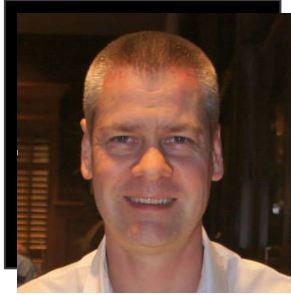


ThoughtSpot Insights Hour

28th November 2024



Speakers



Paul Froggatt
Director, Technical
Architects
ThoughtSpot



Manuel Marco
Solutions Consultant
ThoughtSpot



Eliza Dee
Customer Success
Manager
ThoughtSpot
Host



Reshma Varma
Product Manager
ThoughtSpot

Three pillars of **Insights Hours**

**Product
spotlight**

**How-to
ThoughtSpot**

**Community
thread**

- Hosted last Thursday of every month by ThoughtSpot's GTM team
- Register for one or all sessions
- Ask your questions using Q&A for the Community thread discussions

Agenda

01 | **Introductions**

Hello from speakers and what we'll cover today

02 | **Product spotlight - 10.4 ci release**

Manuel Marco

03 | **How-to ThoughtSpot - Role Based Access Controls**

Reshma Varma

04 | **Open discussion / Technical Q&A**

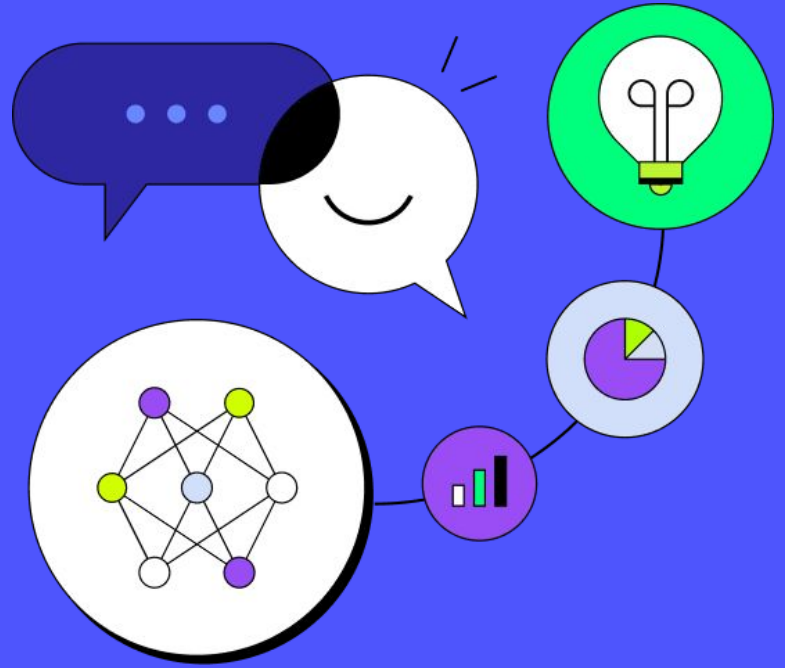
Paul Froggatt

05 | **Wrap Up & Next steps**

Eliza

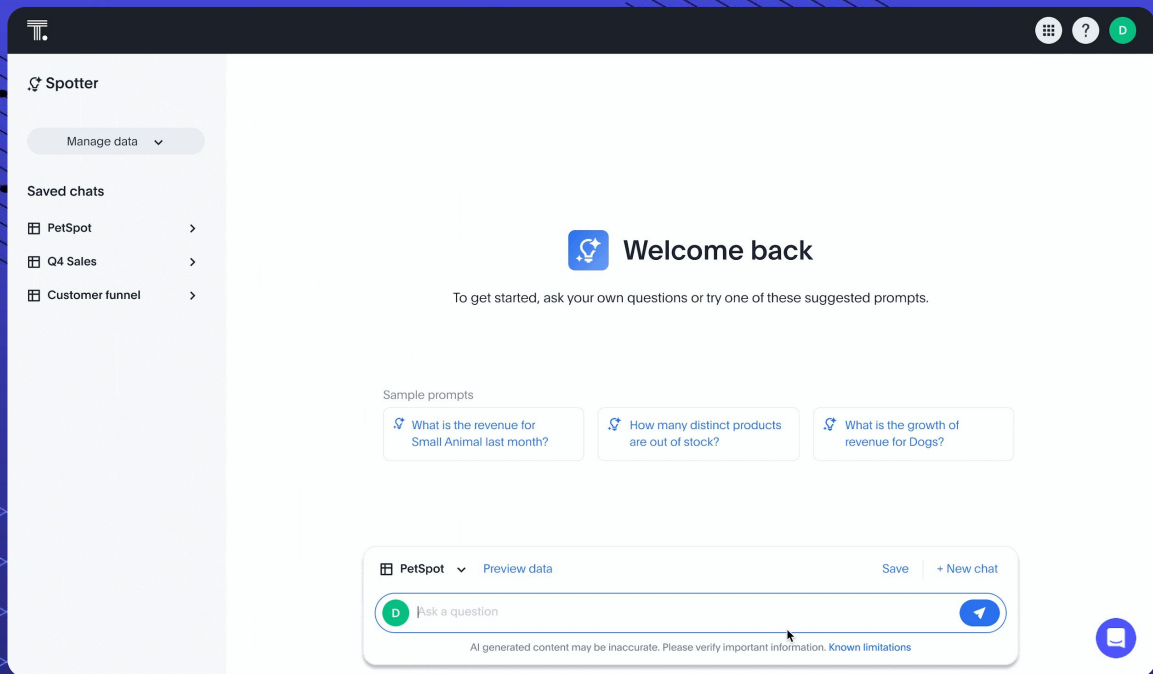
Release Highlights

10.4 ci release highlights

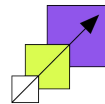


SPOTTER

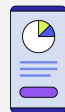
The AI Analyst for Everyone



Any data, Any question



Adapts to your industry



Actionable insights
where you work



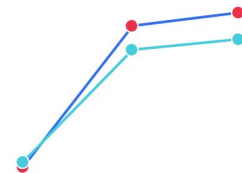
Enterprise-grade trust

Chart visualization enhancements

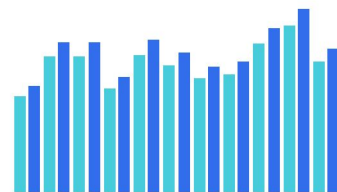
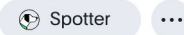
We made the following changes to visualizations on Liveboards:

- You can now hover over items in a visualization's legend to highlight the data that corresponds to that column.
- You can hover over a truncated legend to see the corresponding column name in a tooltip.
- We improved the readability for the smallest size of Liveboard visualizations. Now, minimum-sized visualizations display only the chart, omitting the x- and y-axes and labels. You can hover over select data points to see the values.

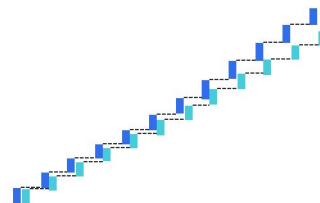
Small viewport -1



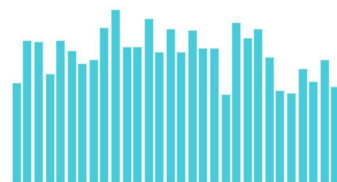
Small vie...



Small Viewport -3




Small Viewport -4



Configuring color gradients

You can now choose multiple colors to define a gradient in charts that support gradients — geo heatmap, geo area, heatmap, and treemap charts. You can control the low, mid, and high values, and numerical value points to customize the gradient.

Gradient

| Column name | Gradient | | | | | | | | | |
|--|--|--|----------|------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|
| Total sales | <table><tr><td>Low</td><td>Midpoint</td><td>High</td></tr><tr><td><input type="color" value="#D62728"/></td><td><input type="color" value="#1F77B4"/></td><td><input type="color" value="#2CA02C"/></td></tr><tr><td><input type="text" value="279412.29"/></td><td></td><td><input type="text" value="5963022.8"/></td></tr></table>  <p>Flip Colour</p> | Low | Midpoint | High | <input type="color" value="#D62728"/> | <input type="color" value="#1F77B4"/> | <input type="color" value="#2CA02C"/> | <input type="text" value="279412.29"/> | | <input type="text" value="5963022.8"/> |
| Low | Midpoint | High | | | | | | | | |
| <input type="color" value="#D62728"/> | <input type="color" value="#1F77B4"/> | <input type="color" value="#2CA02C"/> | | | | | | | | |
| <input type="text" value="279412.29"/> | | <input type="text" value="5963022.8"/> | | | | | | | | |

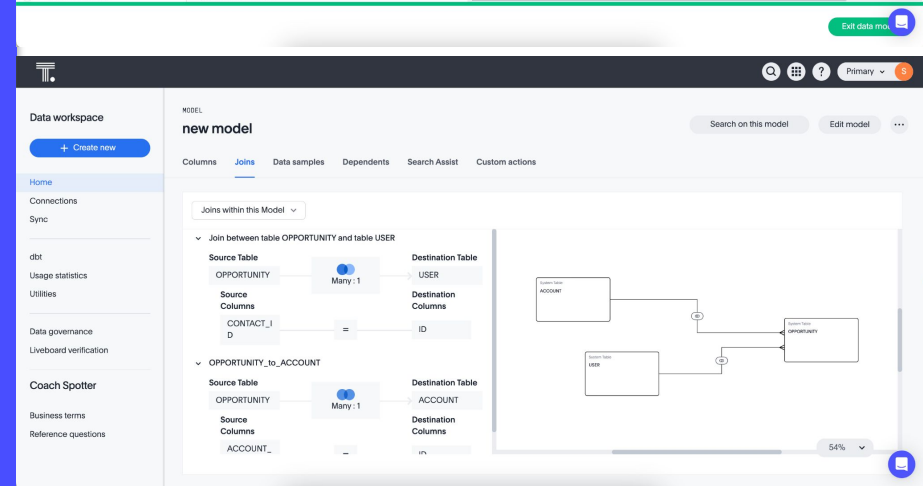
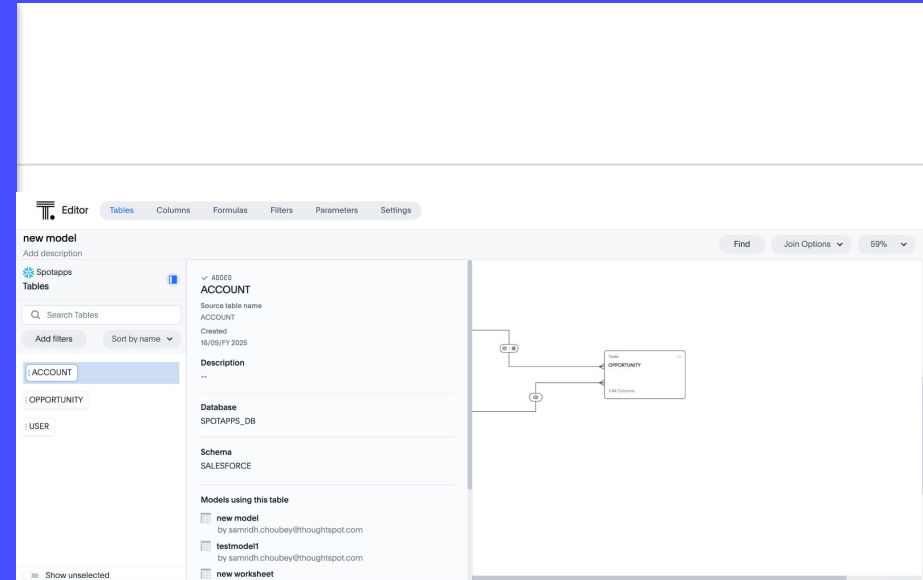
Cancel Save

Worksheet Option Deprecation & Model knowledge cards

- + Create new > Worksheet (Deprecated)

Existing Worksheets continue to be available, but Worksheet creation is disabled by default. To enable Worksheet creation, you must contact your ThoughtSpot administrator.

- Phase 1 (10.1-10.4): Single worksheets can be transformed into models via the UI.
- Phase 2 (10.5-10.7): API support added in 10.6; customers can opt-in for bulk migration via the admin portal.
- Phase 3 (10.7-10.10): Bulk migration becomes opt-out; automatic opt-in for remaining customers.
- Phase 4 (10.10): All worksheets are automatically migrated to models during the upgrade.

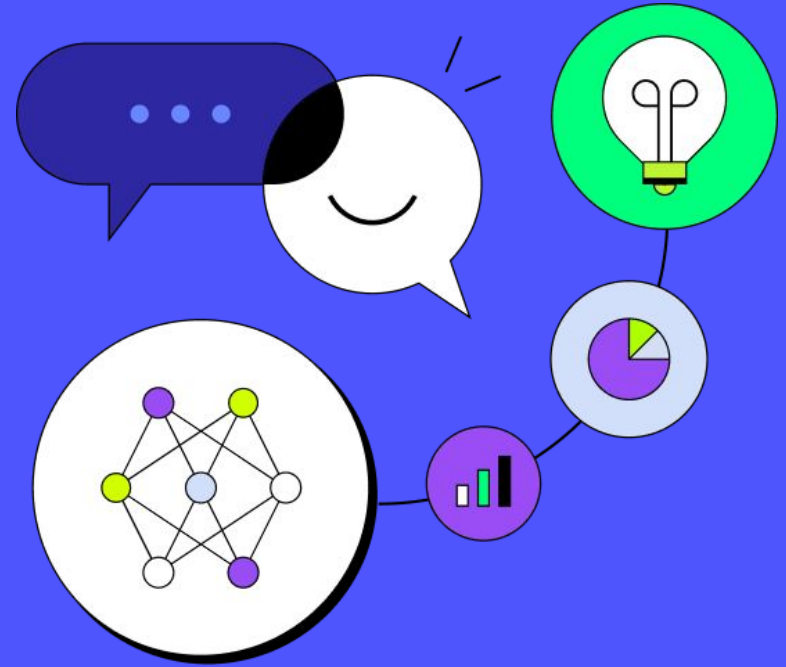


01

Demo

How To

Role Based Access Control



Agenda

01 Introduction to RBAC

The Motivation

02 What changes ?

What to look out for in migrated vs. new clusters

03 Demo

RBAC in working

04 RBAC enablement

Operational aspects of using RBAC

05 Release Plan

What's coming up next

06 Q&A



Introduction to Role based Access Control

Motivation

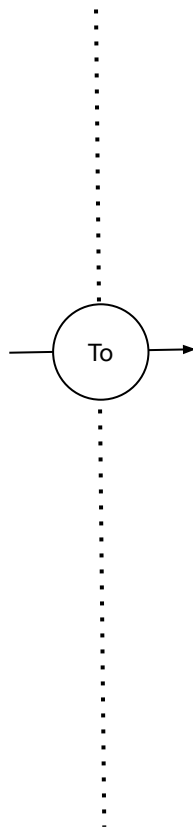
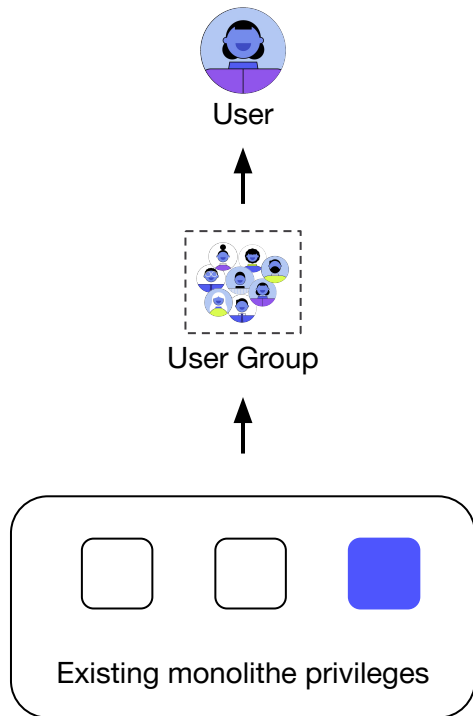
- Existing privileges are insufficient
- Need for granular control of user's capabilities
- Need to cater to different customer requirements (e.g., User / group / role management privilege to be with cluster admin and not org admin)

Solution

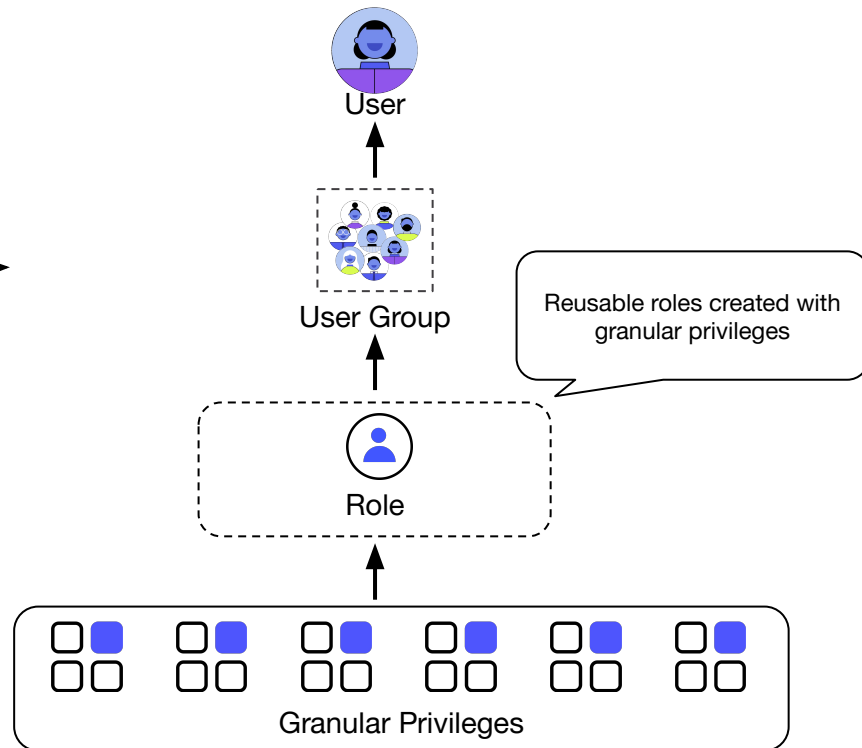
- Creation of new privileges
- Break-down existing monolithic privileges into multiple granular ones
- Introduction of re-usable entities, **Roles**, configured as collection of privileges

Introduction to Role based Access Control

Legacy Privilege Model



RBAC Privilege Model



What's new..

Roles

- Reusable entities that are a collection of privileges
- Create roles aligned with customer-specific business functions
- For e.g., [assign different privileges Data Engineer and Data Manager roles](#)

Privilege Breakup

- Can Administer ThoughtSpot and Can manage Data privileges broken into multiple [granular privileges](#)
- Enhance security by allowing granular user actions and avoiding privilege escalation.

New Privileges

- All new privileges in the pipeline for administration, object management will only be supported for the RBAC model.

What changes..

Before and After the migration

The image shows two side-by-side screenshots of a web application interface, illustrating the changes before and after a migration. The left screenshot shows the 'Groups' page with a sidebar menu containing 'User management', 'Users', 'Groups', and 'Application settings'. The right screenshot shows the same page after migration, where the 'Groups' menu item has been replaced by 'Roles'. A callout box highlights the 'User management' menu, showing 'Users', 'Groups', and 'Roles' options.

| Name ↑ | Display name |
|---|-----------------------|
| <input type="checkbox"/> Administrator | Administration Group |
| <input type="checkbox"/> Analyst | Analyst Group |
| <input type="checkbox"/> Consumer | Consumer Group |
| <input type="checkbox"/> DataDownloader | Data Downloader Group |
| <input type="checkbox"/> rls-group-1 | rls-group-1 |
| <input type="checkbox"/> rls-group-2 | rls-group-2 |
| <input type="checkbox"/> rls-group-3 | rls-group-3 |
| <input type="checkbox"/> rls-group-4 | rls-group-4 |
| <input type="checkbox"/> rls-group-5 | rls-group-5 |
| <input type="checkbox"/> ShareWithAll | ShareWithAll Group |
| <input type="checkbox"/> TestGroup | TestGroup |

- Nothing Changes !!
 - No privilege change for users
 - Existing group privileges converted to roles of the same name
- Introduction to Roles
 - Manage Roles along with users and groups
 - Create re-usable roles with granular privileges
 - Map roles to relevant user groups

Note

All NEW privileges will only be made available by RBAC model

What changes..

Before and After the migration

The screenshot shows the 'Roles' management interface. A table lists roles, with the 'Administrator' role selected. A 'Create role' button is highlighted, and a dialog box is open for creating a new role.

| Role Name | Role Description | Privileges | Users |
|--|------------------|------------|-------|
| <input type="checkbox"/> Administrator | None | 11 | 1 |

Create role

Role description

Admin control

Application control

Object Access control

Data control

Download control

Role description

Role name and description

Admin control

Privileges (0) [Select all](#) | [Clear](#)

- Can manage orgs
- Can manage users
- Can manage groups
- Can manage roles
- Can manage authentication
- Can manage application settings

[Cancel](#) [Review selection](#)

The screenshot shows the 'Create group' dialog box. It includes sections for 'Describe group', 'Select roles', 'Select parent group', and 'Select users'. The 'Select roles' section is currently active, showing a search bar and a list of roles.

Create group

Describe group

Select roles

Select parent group

Select users

Select roles

Search

Roles (0) [Select all](#) | [Clear](#)

- Administrator

Show selected

[View all roles and privileges](#)

Select parent group

[Cancel](#) [Review selection](#)

What changes..

Privilege breakdown illustration

Create group

Describe group

Privileges

Default Liveboards

Select parent group

Select users

Describe group

Display name
TestGroup

Group name and description
TestGroup

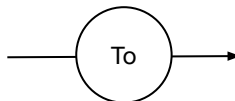
Allow others to share objects with this group

Privileges

Privileges (1) [Select all](#) [Clear](#)

Can manage data
 Can manage catalog
 Can invoke Custom R Analysis

[Cancel](#) [Review selection](#)



Edit group

Describe group

Select roles

Default Liveboards

Select parent group

Select users

Resend Welcome Email

Display name
TestGroup

Group name and description
TestGroup

Allow others to share objects with this group

Select roles

Roles (4) [Select all](#) [Clear](#)

_Can create or edit connections
 _Can manage custom calendar
 _Can manage data models

[Cancel](#) [Review selection](#)

- The monolith “Can Manage Data” privilege is broken down to three roles : “Can create or edit connections”, “Can manage custom calendar”, “Can manage data models”
- Each of these roles are assigned the granular privilege of the same name
- User with older monolith privilege will have exact same capabilities after migration to RBAC

What's new..

Privilege Breakup

Old Privileges

- Admin Control**
 - Can Administer ThoughtSpot
- Application Privileges**
 - Has SpotIQ privilege
 - Has Developer privilege
 - Can schedule for others
 - Can manage sync settings
 - Can use sage
 - Can manage catalog
 - Can verify Liveboards
 - Can toggle version control for objects
- Object Access Control**
 - Can share with all users
- Download Control**
 - Can download Data
- Data Control Privileges**
 - Can upload user data
 - Can administer and bypass RLS
 - Can Manage data



New Privileges

- Admin Control**
 - Can manage Orgs
 - Can manage Users
 - Can manage Groups
 - Can manage Roles
 - Can manage Authentication settings
 - Can manage Application settings
 - Can setup version control
 - Can view System activities
 - Can view Billing Information
 - Can enable / disable trusted Authentication
 - Can manage Tags
- Application Privileges**
 - Has SpotIQ privilege
 - Has Developer privilege
 - Can schedule for others
 - Can manage sync settings
 - Can use sage
 - Can manage catalog
 - Can verify Liveboards
 - Can toggle version control for objects
- Object Access Control**
 - Can share with all users
- Download Control**
 - Can download Data
- Data Control Privileges**
 - Can upload user data
 - Can administer and bypass RLS
 - Can manage custom calendars
 - Can create / edit connections
 - Can manage data models

What's new..

Persona-centric Roles*

Super Admin Role

Admin Control

- Can manage Orgs
- Can manage Users
- Can manage Groups
- Can manage Roles
- Can manage Authentication
- Can manage Application settings
- Can setup version control
- Can view System activities
- Can view Billing Information
- Can enable / disable trusted Authentication
- Can manage Tags

Application Privileges

- Has Developer privilege
- Can schedule for others
- Can manage sync settings
- Can use sage
- Can manage catalog
- Can verify Liveboards
- Can toggle version control for objects

Data Control Privileges

- Can upload user data
- Can administer and bypass RLS
- Can manage custom calendars
- Can create / edit connections
- Can manage data models

Object Access Control

- Can share with all users

Download Control

- Can download Data

User Admin Role

Admin Control

- x Can manage Orgs
- Can manage Users
- Can manage Groups
- Can manage Roles
- Can manage Authentication
- x Can manage Application settings
- x Can setup version control
- x Can view System activities
- x Can view Billing Information
- x Can enable / disable trusted Authentication
- x Can manage Tags

Application Privileges

- x Has Developer privilege
- x Can schedule for others
- x Can manage sync settings
- x Can use sage
- x Can manage catalog
- x Can verify Liveboards
- x Can toggle version control for objects

Data Control Privileges

- x Can upload user data
- x Can administer and bypass RLS
- x Can manage custom calendars
- x Can create / edit connections
- x Can manage data models

Object Access Control

- x Can share with all users

Download Control

- x Can download Data

Data Engineer Role

Admin Control

- x Can manage Orgs
- x Can manage Users
- x Can manage Groups
- x Can manage Roles
- x Can manage Authentication
- x Can manage Application settings
- x Can setup version control
- x Can view System activities
- x Can view Billing Information
- x Can enable / disable trusted Authentication
- x Can manage Tags

Application Privileges

- x Has Developer privilege
- x Can schedule for others
- x Can manage sync settings
- x Can use sage
- x Can manage catalog
- x Can verify Liveboards
- x Can toggle version control for objects

Data Control Privileges

- Can upload user data
- Can administer and bypass RLS
- Can manage custom calendars
- Can create / edit connections
- Can manage data models

Object Access Control

- Can share with all users

Download Control

- Can download Data

Analyst Role

Admin Control

- x Can manage Orgs
- x Can manage Users
- x Can manage Groups
- x Can manage Roles
- x Can manage Authentication
- x Can manage Application settings
- x Can setup version control
- x Can view System activities
- x Can view Billing Information
- x Can enable / disable trusted Authentication
- x Can manage Tags

Application Privileges

- Has Developer privilege
- x Can schedule for others
- x Can manage sync settings
- x Can use sage
- x Can manage catalog
- x Can verify Liveboards
- x Can toggle version control for objects

Data Control Privileges

- Can upload user data
- x Can administer and bypass RLS
- Can manage custom calendars
- x Can create / edit connections
- Can manage data models

Object Access Control

- x Can share with all users

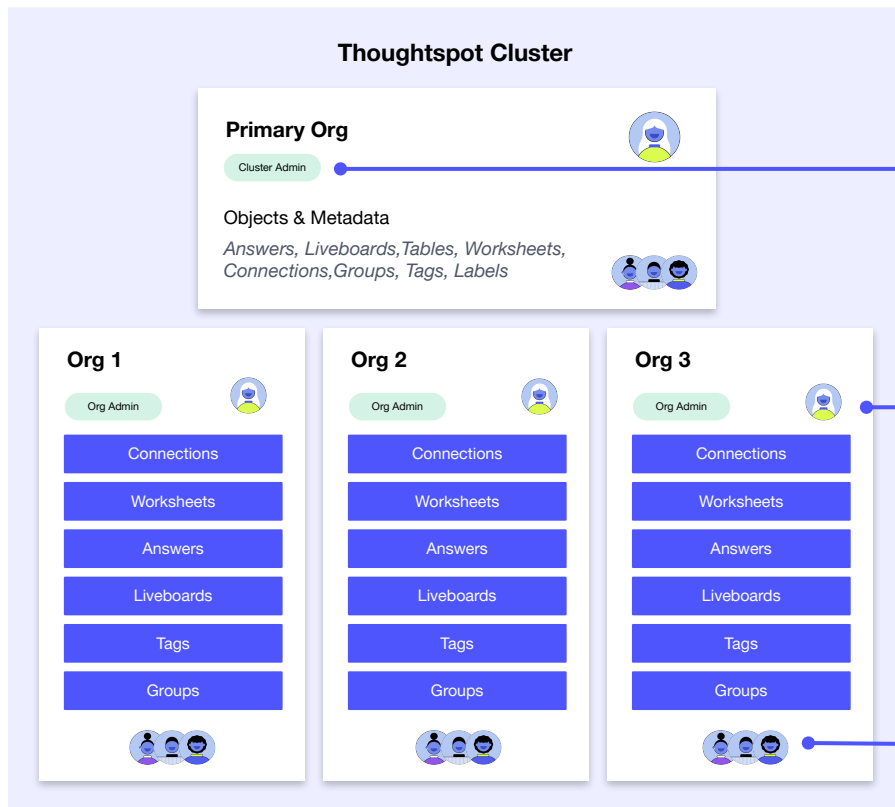
Download Control

- Can download Data

*These roles are for representation purposes only - you can model roles with any permutation / combination of granular privileges

What's new..

Before RBAC Enablement in clusters with Orgs



Cluster Admin

- Manage Orgs
- Manages Org assignment for users
- Access to all Orgs data and config
- Can do all activities of all Org admins

Org Admin

- Manage users, groups and privileges in own org
- Manage data in (connections etc.) in own org

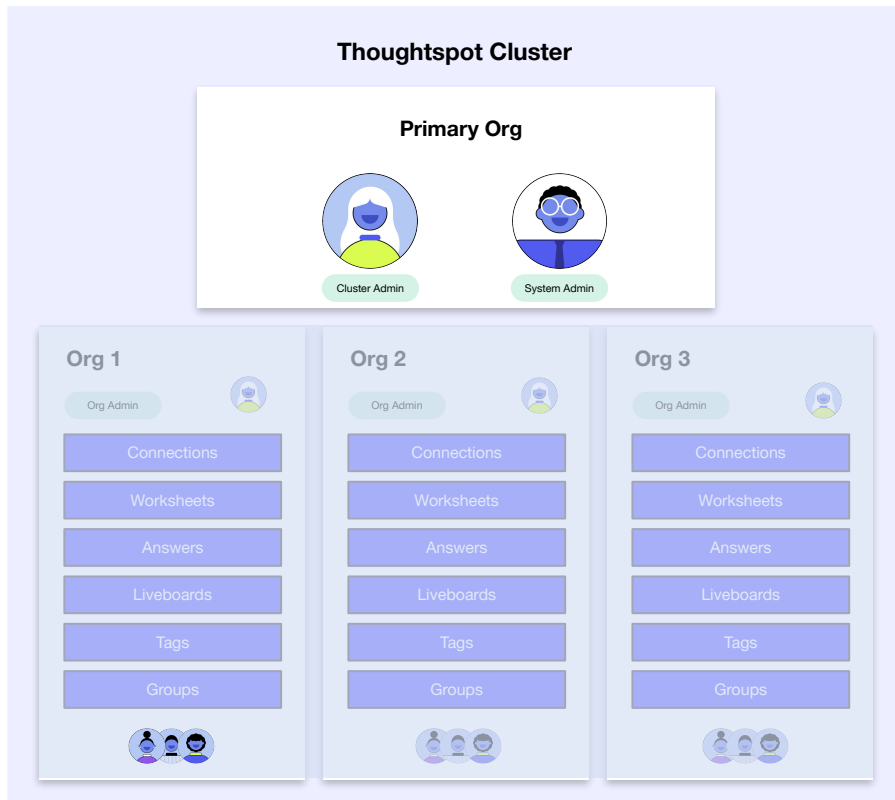
Users

- All existing operations but filtered by Org
- Org Switching (*if user belongs to multiple Orgs*)

Admin roles reimagined !

Note
Roles are within the scope of the org they are defined in.

After RBAC Enablement in clusters with Orgs



- ### Cluster Admin Role*
- Admin Control**
 - Can manage Orgs
 - Can manage Users
 - Can manage Groups
 - Can manage Roles
 - Can manage Authentication
 - Can manage Application settings
 - Can setup version control
 - Can view System activities
 - Can view Billing Information
 - Can enable / disable trusted Authentication
 - Can manage Tags
 - Application Privileges**
 - Has Developer privilege
 - Can schedule for others
 - Can manage sync settings
 - Can use sage
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 - Data Control Privileges**
 - Can upload user data
 - Can administer and bypass RLS
 - Can manage custom calendars
 - Can create / edit connections
 - Can manage data models
 - Object Access Control**
 - Can share with all users
 - Download Control**
 - Can download Data

- ### Application Admin Role*
- Admin Control**
 - Can manage Orgs
 - Can manage Users
 - Can manage Groups
 - Can manage Roles
 - Can manage Authentication
 - Can manage Application settings
 - Can setup version control
 - Can view System activities
 - Can view Billing Information
 - Can enable / disable trusted Authentication
 - Can manage Tags
 - Application Privileges**
 - Has Developer privilege
 - Can schedule for others
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 - Can upload user data
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 - Can manage custom calendars
 - Can create / edit connections
 - Can manage data models
 - Object Access Control**
 - Can share with all users
 - Download Control**
 - Can download Data

*These roles are for representation purposes only - you can model roles with any permutation / combination of granular privileges

Admin roles reimagined !

Note

Roles are within the scope of the org they are defined in.

After RBAC Enablement in clusters with Orgs



Org Admin Role*

Admin Control

- Can manage Users
- Can manage Groups
- Can manage Roles
- Can manage Authentication
- Can manage Application settings
- Can setup version control
- Can view System activities
- Can view Billing Information
- Can enable / disable trusted Authentication
- Can manage Tags

Application Privileges

- Has Developer privilege
- Can schedule for others
- Can manage sync settings
- Can use sage
- Can manage catalog
- Can verify Liveboards
- Can toggle version control for objects

Data Control Privileges

- Can upload user data
- Can administer and bypass RLS
- Can manage custom calendars
- Can create / edit connections
- Can manage data models

Object Access Control

- Can share with all users

Download Control

- Can download Data

Data Engineer Role*

Admin Control

- Can manage Orgs
- Can manage Users
- Can manage Groups
- Can manage Roles
- Can manage Authentication
- Can manage Application settings
- Can setup version control
- Can view System activities
- Can view Billing Information
- Can enable / disable trusted Authentication
- Can manage Tags

Application Privileges

- Has Developer privilege
- Can schedule for others
- Can manage sync settings
- Can use sage
- Can manage catalog
- Can verify Liveboards
- Can toggle version control for objects

Data Control Privileges

- Can upload user data
- Can administer and bypass RLS
- Can manage custom calendars
- Can create / edit connections
- Can manage data models

Object Access Control

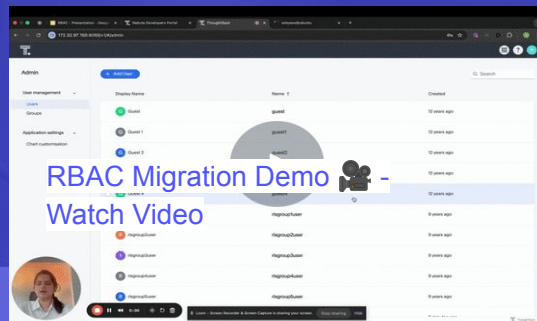
- Can share with all users

Download Control

- Can download Data

*These roles are for representation purposes only - you can model roles with any permutation / combination of granular privileges

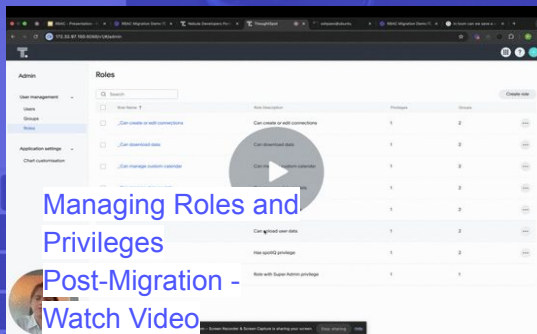
Demo



RBAC Migration Demo - Watch Video

The screenshot shows the 'Users' page in the RBAC Admin console. It features a table with columns for Name, Email, and Created. The table lists several users, including 'Guest' and 'mgp@thoughtspot.com'. A video player overlay is present in the center of the screenshot.

| Name | Email | Created |
|---------------------|---------------------|--------------|
| Guest | guest | 10 years ago |
| Guest 1 | guest1 | 10 years ago |
| Guest 2 | guest2 | 10 years ago |
| mgp@thoughtspot.com | mgp@thoughtspot.com | 5 years ago |
| mgp@thoughtspot.com | mgp@thoughtspot.com | 5 years ago |
| mgp@thoughtspot.com | mgp@thoughtspot.com | 5 years ago |
| mgp@thoughtspot.com | mgp@thoughtspot.com | 5 years ago |
| mgp@thoughtspot.com | mgp@thoughtspot.com | 5 years ago |
| mgp@thoughtspot.com | mgp@thoughtspot.com | 5 years ago |
| mgp@thoughtspot.com | mgp@thoughtspot.com | 5 years ago |



Managing Roles and Privileges Post-Migration - Watch Video

The screenshot shows the 'Roles' page in the RBAC Admin console. It features a table with columns for Role Name, Privilege, and Status. The table lists several roles, including 'Can download data', 'Can manage system settings', 'Can upload data', and 'Role with Super Admin privilege'. A video player overlay is present in the center of the screenshot.

| Role Name | Privilege | Status | |
|---------------------------------|----------------------------------|--------|---|
| Can download data | Can download or edit connections | 1 | 2 |
| Can manage system settings | Can download data | 1 | 2 |
| Can upload data | Can upload connections | 1 | 2 |
| Role with Super Admin privilege | Can upload connections | 1 | 2 |

RBAC Enablement

Existing Clusters

- RBAC is **opt-in**
- Seamless migration - no downtime expected
- Test in Dev / PoC Clusters before enabling on Prod

New Clusters from 10.6.0.ci+ (tentative)

- Default enabled in **all new** TSA / TSE cloud clusters

If you are interested in trying out RBAC / have further questions, feel free to reach out to ThoughtSpot Support.

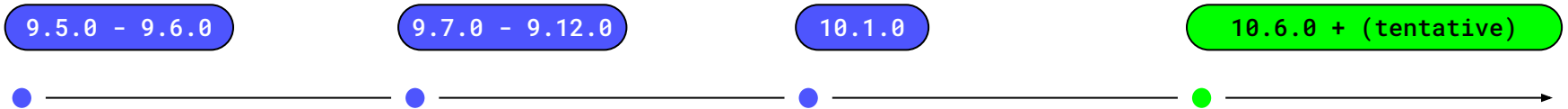
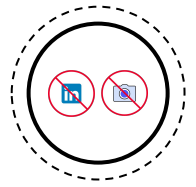
Please note: As **RBAC will be the default privilege model in the future**, once enabled, we do not encourage roll-back

RBAC documentation links:

- User documentation: <https://docs.thoughtspot.com/cloud/latest/rbac>
- Developer documentation: <https://developers.thoughtspot.com/docs/rbac>

For submitting requirements for feature enhancement, please create a new product idea via [ThoughtSpot Community](#)

Release Plan



Limited Availability

- Granular Privileges and RBAC for normal clusters

Beta / Early Access

- Granular privileges and RBAC for Org enabled clusters
- Data management privileges

General Access

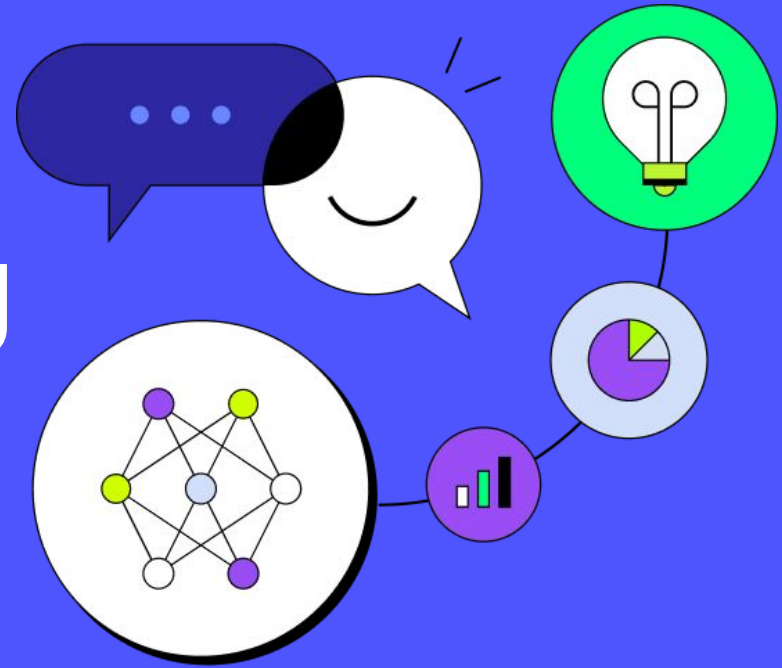
- On-demand enablement on external TSE clusters

Default Enablement

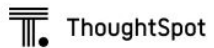
- Enable RBAC on all new Enterprise Cloud clusters
- Staggered enablement on existing clusters
- New granular privileges for object management
- Create pre-defined persona-centric roles in all new clusters

Q&A

What's coming & next steps



See you at....



[Register Now](#)

Embed

Turning Insight Into Revenue

December 11, 12:00 PM — 7:30 PM EET
The Landmark Hotel, Marylebone, London

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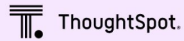
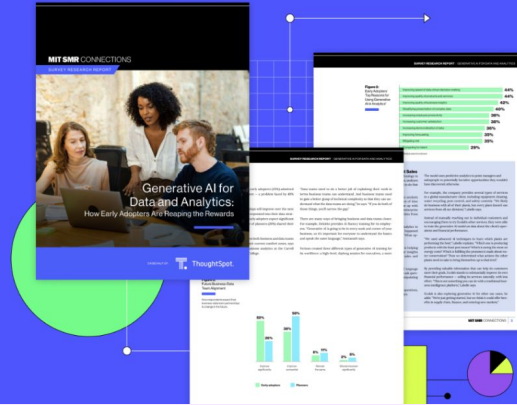
Upcoming events



WEBINAR

Maximizing Data Value with Generative AI

Thursday, December 5 at 9 a.m. PT



WEBINAR

Decoding GenAI: Your blueprint for success in data and analytics

Thursday, December 12 at 8 a.m. PT



New year, new Insights Hour format

Thank you for your feedback!

Planned changes starting with January 2025:

- Better planning to take into consideration US bank holidays
- Inclusion of Analyst Studio
- More 'hot topics' from the field
- Global events calendar
- Slides available with the recording

See you next year!

January
INSIGHTS HOUR 2024

