

Improving Search **in Admin Console**

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Background

Admin Console

G Suite (formerly Google Apps for Work and Google Apps for Your Domain) is a brand of cloud computing, productivity and collaboration tools, software and products developed by Google, first launched on August 28, 2006 as “Google Apps for Your Domain”. G Suite comprises Gmail, Hangouts, Calendar, and Google+ for communication; Drive for storage; Docs, Sheets, Slides, Forms, and Sites for collaboration; and, depending on the plan, an Admin panel and Vault for managing users and the services.

Admin Console as part of GSuite provides a centralized management interface for enterprise customers to securely manage the people, apps and devices in their company. Launched in 2008, Admin Console is one of Google’s legacy products. Admin Console broadly comprises of several modules within it, these could be entities and settings. Entities include users, groups, devices and apps. Settings are generally performed on these entities.

C panel migration

The backend and user experience for Admin Console is presently based on C panel. C panel was designed with a focus on very small scale businesses and medium sized businesses, these organizations have anything between 20 users to 100 users. Admin Console is now being updated with a focus on Large Scale corporations, providing for a tailored experience for every admin that respects their time and abilities, and adapts to an organization's needs.

This is a change that is persistently happening through modules that Admin Console is comprised of. Currently the user management page has been updated to fit in an organizations need of large number of employees

 Google Admin

 Search



Need to do something not yet available in this Google Admin Preview? Switch Back to [Admin Console](#).



Users | Showing all 20 users

 Adel Anwar adel@esmails.com Active	 Antonio Torres admin@muzammil.me Active	 Ajay Surie ajaysurie@esmails.com Active
 Alex Bradford alex@esmails.com Active (Hasn't signed in yet)	 Allan Livingston allanl@esmails.com Suspended by admin (2 months)	 Alvarez Gonzalvez alvarez@esmails.com Active (Hasn't signed in yet)
 Anand R anand@esmails.com Suspended by admin (5 months)	 Annie Jones annie@esmails.com Active (Hasn't signed in yet)	 anubhav srivastav anubhavsr@esmails.com Active (Hasn't signed in yet)

Users list page in old Admin Console

Need to do something not yet available in this Google Admin preview? Switch back to [Admin console](#).

Users

Showing 10,654 users from all org units

Filter by

☐

Name

↓

Email

Status

Last log in

☐	Arnab Banerjee	arnabb@hivelab.is	Active	5 days ago	
☐	AD Ashish Deshpande	arnabb@hivelab.is	Active	9 m ago	
☐	Erik Haddad	erik@hivelab.is	Suspended	2 h 30 m ago	
☐	Indradeep Saha	indradeep@hivelab.is	Active	5 days ago	
☐	Deepti Kulkarni	deeptikulkarni@hivelab.is	Active	2 y 6 mo ago	
☐	Laura Vardoulakis	lauravardoulakis@hivelab.is	Active	5 days ago	
☐	Muzammil Ismail	muz@hivelab.is	Active	5 days ago	
☐	Pritam Pebam	pritam@hivelab.is	Active	2 y 6 mo ago	
☐	Ramchandran R	ramachandran@hivelab.is	Active	9 m ago	
☐	Sures Kumar	sureskumar@hivelab.is	Active	5 days ago	
☐	SH Shailesh Hingole	shailesh@hivelab.is	Active	9 m ago	

Rows per page: 20

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Users list page in new Admin Console

Search in Admin Console

Search is one of the fundamental methods of navigation in today's world. Enterprise admins rely on search as a way to navigate admin console. Search within Admin Console can aid for faster navigation and discoverability across the console.

Being a Google product, users expect Search in Admin Console to be robust but the current scenario leaves a lot to be desired. The goal is to identify what admins typically use search for, what use-cases we can make available and what additional functionality we can add to Search to make it even more powerful and capable to what it is today.

Result details:
Title+ Path

How the search bar works today

Stakeholders

There are two main stakeholders to design for, for the new Admin Console. IT admins in an organization and partner teams. The idea is to build a pattern library that partner teams can use and build on top of.

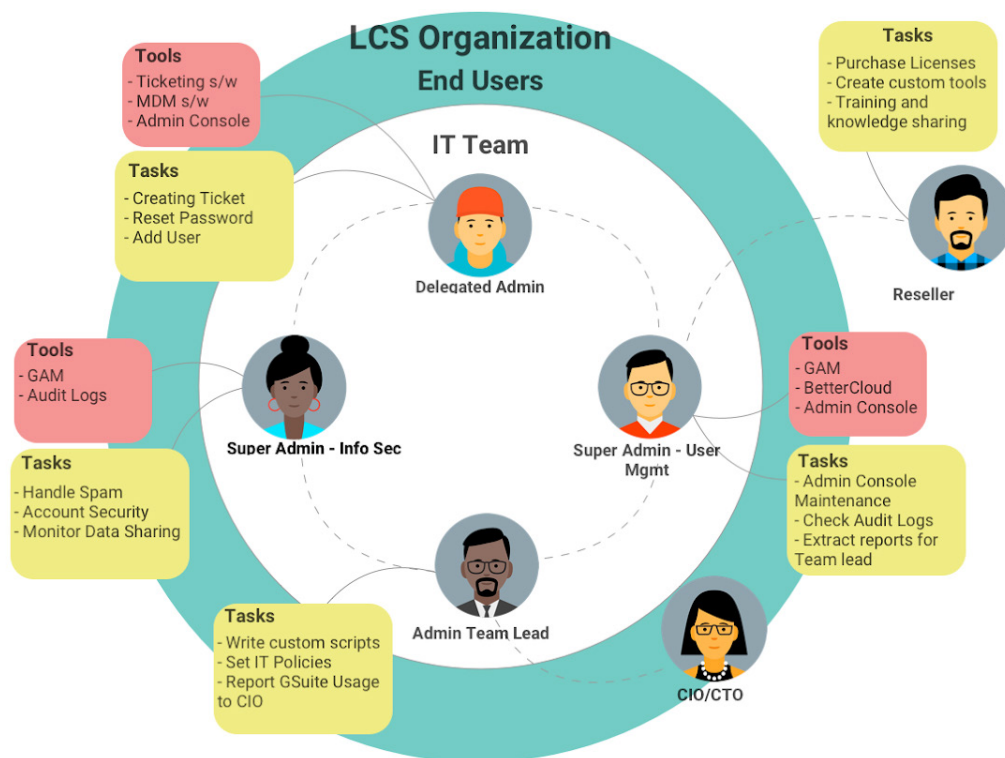
The IT Admins in LCS organizations have various roles and responsibilities. There are 3 primary personas for IT Admins -

The delegated admin

These are admins assigned to specific tasks. They would usually perform the same set of tasks repeatedly for multiple users. These tasks may be non-critical tasks such as resetting passwords or changing usernames

Super admin

The super admins perform more critical tasks infrequently. They may use Admin Console for instance, to audit a suspicious activity etc.



The Admin team lead

These are the admins setting guidelines regarding setting up and using Admin Console

While each persona has different needs, the IT admins generally prefer to get their tasks done in the least number of steps. It has been observed that they heavily make use of APIs to perform bulk actions. Admins hold responsibility for managing several users within their organization and their security, hence the cost of making mistakes is very high. Several actions/settings are high touch in nature and admins use the platform with a lot of caution.

The Admin ecosystem

Research

How users use Search

Method

User related information was gathered through the following means:

Skimming through past researches and filtering out content relevant to search

Adding in some questions wrt search in the user study slot for admin home concept testing

Collected analytics report, used Google plx to synthesize some of the partially typed queries by admins

Finally, affinity mapping was done in sheets for all the data collected then synthesized for insights

Findings

Search is primarily used to find entities and groups. This was deduced by looking at the categorization of user search queries. Admins primarily use search when they know precisely what they're looking for but don't know where it is located. In this case search is used for navigation. Some of the user statements

around the same were “Because there are so many types of settings, it is difficult to remember where they are. That’s why search was the biggest help in admin console”, “Big fan of search bar and type ahead in admin console. That’s my preferred way of getting to something. If it doesn’t come there, I would use click through”.

Some of the pain points around search included having limited ways of querying. For instance, groups can only be searched through emails not by their aliases. Users are also unable to sort and filter the search results on the search landing page. “I would like to be able to sort the users and groups by name. Currently they only sort by email address. This make it very difficult to find users or groups” was of the admin’s reported frustrations. The present search is also not error friendly, as remarked one of the users. “It’s not error friendly. There’s no “Did you mean this”.”

Users expressed a desire to be able to have recent, frequently visited and saved searches. They were also inclined towards having a smarter search. “It would be nicer to do filters on the users and queries to find them, not just based on user name but also on attributes and properties. ...so that could help discover information (see users who’ve logged into azure for the last 30 days, or users who’ve not reset the password)..”

Best Practises for Search

Method

Browsed through internal and online content on EUX

Audited admin console search

Audited various consumer, enterprise and OS based searches

Looked at research papers on HCIR and online blogs to find out best practises for search

Connected with engineering, to understand how search works in the backend

Findings

Search was looked as a journey from the way that it gives as affordance to the user to what they can search for through it's interface, the behaviour on clicking, typing and how the results appear in the search suggestion area and the results page. Several types of searches were audited based on these parameters and some patterns were deduced from them.

Redefined Brief

The brief was later redefined based on the findings from research. The redefined brief was around how can both global and local search be performed through one search bar. The focus would be surface the most relevant information quickly and with the least number of clicks.

Google Admin

Search for users, groups, and settings (e.g. create users)

Users

All organizations

Users | Showing users from all organizational units

Users from all organizational units

Users from selected organizational units

Search for organizational units

Select multiple

esmails.com

- Auto license Off
- BLR Eng Team1
- BLR Product Team
- BLR Sales Team
- drive off
- DUB Product Team
- Executive Team
- Inactive Super Admins
- SFO
- Special Team

MANAGE ORGANIZATIONAL UNITS

+ Add a filter

☐	Name ↑	Email	2-step verification enrollment	Status	Last sign
☐	2k4 4	2sk45@esmails.com	Enrolled	Active	2 months ago
☐	2sk1 1	2sk11@esmails.com	Not enrolled	Active	Hasn't signed in
☐	2sk2 2	2sk2@esmails.com	Not enrolled	Suspended by admin (2 mo...	Hasn't signed in
☐	A1 A1	a1@esmails.com	Not enrolled	Active	2 months ago
☐	A2 A2	a2@esmails.com	Not enrolled	Active	Hasn't signed in
☐	A6 A6	a6@esmails.com	Not enrolled	Active	Hasn't signed in
☐	A8 A8	a8@esmails.com	Not enrolled	Active	Hasn't signed in
☐	A9 A9	a9@esmails.com	Not enrolled	Suspended by admin (2 mo...	Hasn't signed in
☐	Abhinay Omkar	abhinay@esmails.com	Not enrolled	Active	About 10 hours ago
☐	Abhishek Kumar	abhik@esmails.com	Enrolled	Active	4 years ago

Rows per page: 50

Page 1 of many

Global Search

Presently global search allows admins to search across admin console. This search is however limited since it does not drill down deeper into the information architecture and only searches from limited categories. Instances of what can be queried today are as follows:

Search users through name and email
Search groups through email id
Search settings through name

Google Admin Search for users, groups, and settings (e.g. create users)

Users

All organizations

Users | Showing users from all organizational units

Search for organizational units

esmails.com

- Auto license Off
- BLR Eng Team1
- BLR Product Team
- BLR Sales Team
- drive off
- DUB Product Team
- Executive Team
- Inactive Super Admins
- SFO
- Special Team

MANAGE ORGANIZATIONAL UNITS

Users

Name	Email	2-step verification enrollment	Status	Last sign
2k4 4	2sk45@esmails.com	Enrolled	Active	2 months ago
2sk1 1	2sk11@esmails.com	Not enrolled	Active	Hasn't signed in
2sk2 2	2sk2@esmails.com	Not enrolled	Suspended by admin (2 mo...	Hasn't signed in
A1 A1	a1@esmails.com	Not enrolled	Active	2 months ago
A2 A2	a2@esmails.com	Not enrolled	Active	Hasn't signed in
A6 A6	a6@esmails.com	Not enrolled	Active	Hasn't signed in
A8 A8	a8@esmails.com	Not enrolled	Active	Hasn't signed in
A9 A9	a9@esmails.com	Not enrolled	Suspended by admin (2 mo...	Hasn't signed in
Abhinay Omkar	abhinay@esmails.com	Not enrolled	Active	About 10 hours ago
Abhishek Kumar	abhik@esmails.com	Enrolled	Active	4 years ago

Rows per page: 50 Page 1 of many

Local Search

Local search within admin console searches within entities and attributes of that page. Presently only some pages within admin console provide local search. Admin also has to click through several areas in the page to be able to receive the result of the desired query

Brainstorming and Ideation

Brainstorming Session

The goal of brainstorming was to come up with ideations that answer three key questions; how might users know that a single search bar can be used for both local and global search, how will users input query, what will the results look like?

Besides doing some self explorations on the same, I conducted a brainstorming session with members of the team, to be able to gather more insight into the product. The brainstorming session aimed to answer the aforementioned key questions with the team. The participants were prepared by giving them a background about previous research work done, later they were asked to individually come up with 8 ideas that were presented by them at the end of the session. The ideations were to be centered around one of the three questions or multiple. The session was well received and was able to facilitate several interesting themes, some of them are as follows:



Surfacing frequent and quick actions in the search suggestions area
Overlaying search area on top of the page to perform local search, to make it intuitive that the search is being performed all over Admin Console
Having a single unified search result instead of being segregated by type
Utilizing the space in the left side of the search bar to provide hint text about what can be searched for/keys to press
Use condition builder for more complex searches

Some Early Concepts

During this phase several ideations were generated and timely frequent feedbacks received from several people within the team. Some of the early explorations were around how search can be performed only using keyboard, performing advanced search using entities+filter and settings

In: users *Type attribute name for local search (for ex: status: suspended)*

In: users e

email
2sv enrollment
esmail
ejash
esha

In: users email: ✕

email primary:
email domain:

In: users email domain:@ ✕

@esmail.com
@muzammil.com

Text only search

In

Users

▼

Where

Choose OU/group

▼

Search

Recent

esmail

hello

barney

primary email=ah2hd

Filters

last name

status

last sign in

storage

created

Overlay on page search

Final Concept

The final concept focussed primarily on surfacing information not at workflows. Workflows can be complicated and is different for each organization. The idea it to have two separate columns within the search that help perform global and local search simultaneously.

Searching for entities

Some of the most frequently used quick actions were surfaced in the search suggestions area itself also with user information. The user information looks similar to the entity card within user details page to maintain a sense of familiarity. The destructive actions are not listed here to avoid any damage. The user query turns into a chip on pressing the right arrow, which signifies that they can search within that page. The right side displays results from within that page.

Searching for settings

Settings display the broader level information settings within the chosen setting. On querying, the user can find drilled down results too.

Final Concept Mocks



Admin Console



Dashboard

See relevant insights about your domain



Users

Add, rename, and manage users



Company profile

Update information about your company



Billing

View charges and manage licenses



Reports

Track usage of services



Rules

Manage rules for your domain



Apps

Manage apps and their settings



Groups

Create groups and mailing lists



Admin roles

Add new admins



Device management

Secure corporate data on devices



Security

Manage security features



Domains

Add domains or domain aliases



Support

Talk with our support team



Data migration

Import email, calendar and contacts

MORE CONTROLS

Google Admin

?

🔔

Admin Console



Dashboard

See relevant insights about your domain



Groups

Create groups and mailing lists



Recent Pages

Arnab Banerjee
arnabb@hivelab.is



team-blr
blr@hivelab.is



38a113039726a093
Arille R.



Chrome
Device Management



Email addresses
Apps > GSuite > Settings for Gmail



Erik Hadad
erik@hivelab.is



Muzammil
muz@hivelab.is



Rules

Manage rules for your domain



Apps

Manage apps and their settings



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Last seen 3 mins ago
Created Jan 01, 2015

Org Unit

Americas > ... > Testing > Mountain View

[RESET PASSWORD](#)

RENAME USER

ADD TO GROUPS

EMAIL USER



Dashboard
See relevant insights
about your domain



Groups
Create groups and mailing lists



Rules
Manage rules for your domain

 **Support**
Talk with our support team



Apps
Manage apps and their settings



Data migration
Import email, calendar
and contacts

MORE CONTROLS

Google Admin

Natalie Issa >

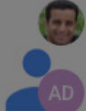
Admin Console



Dashboard
See relevant insights about your domain



Groups
Create groups and mailing lists



Users
Add, rename, and manage users



Admin roles
Add new admins



Company profile
Update information about your company



Billing
View charges and manage licenses



Reports
Track usage of services



Rules
Manage rules for your domain



Apps
Manage apps and their settings



Support
Talk with our support team



Data migration
Import email, calendar and contacts

Reset password for Natalie Issa?

Are you sure you would like to reset password for Arnab Banerjee?

CANCEL

RESET

MORE CONTROLS

Google Admin

Natalie Issa >

Lic

?

Admin Console

Dashboard

See relevant insights about your domain

Groups

Create groups and mailing lists

Natalie Issa

nissa@hivelab.is

Naman R

anand@hivelab.is

AD

Arpit Bradford

arpit@hivelab.is

Arille

arille@hivelab.is

Wishy Arora

wishy@hivelab.is

Arnab Banerjee

arnabb@hivelab.is

Arnab Banerjee

arnabb@hivelab.is

Showing 1 result(s)

Licences

Users > Natalie Issa

Rules

Manage rules for your domain

Apps

Manage apps and their settings

Support

Ask with our support team

Data migration

Import email, calendar and contacts

MORE CONTROLS

 Natalie Issa
nissa@hivelab.is

Showing 1 result(s)

Licences
Users > Natalie Issa

 Naman R
anand@hivelab.is

AD Arpit Bradford
arpit@hivelab.is

 Arille
arille@hivelab.is

 Wishy Arora
wishy@hivelab.is

 Arnab Banerjee
arnabb@hivelab.is

 Arnab Banerjee
arnabb@hivelab.is

 **Groups**
Create groups and mailing lists



Rules

Manage rules for your domain

 **Support**
Talk with our support team



Apps
Manage apps and their settings



Data migration
Import email, calendar
and contacts

MORE CONTROLS

Home > Users > Natalie Issa > Licences

ADMIN

Natalie Issa

nissa@hivelab.com

Last seen 3 mins ago

Created Jan 01, 2015

Org Unit

Americas > ... > Testing > Mountain View

RESET PASSWORD

RENAME USER

MORE

Licenses

Here are all the licenses for user Shikha's Google subscriptions. To make changes or view subscription details, go to [Billing](#).

License	Status	Monthly cost
G Suite Business 1 license above purchase limit	Not assigned	-
Cloud Identity Free	Assigned to all	Free
Cloud Identity Premium 0 licenses available	Not assigned	- Click here to know more
Android management	Assigned to all	Free
		- Estimated monthly cost

