SecretOps
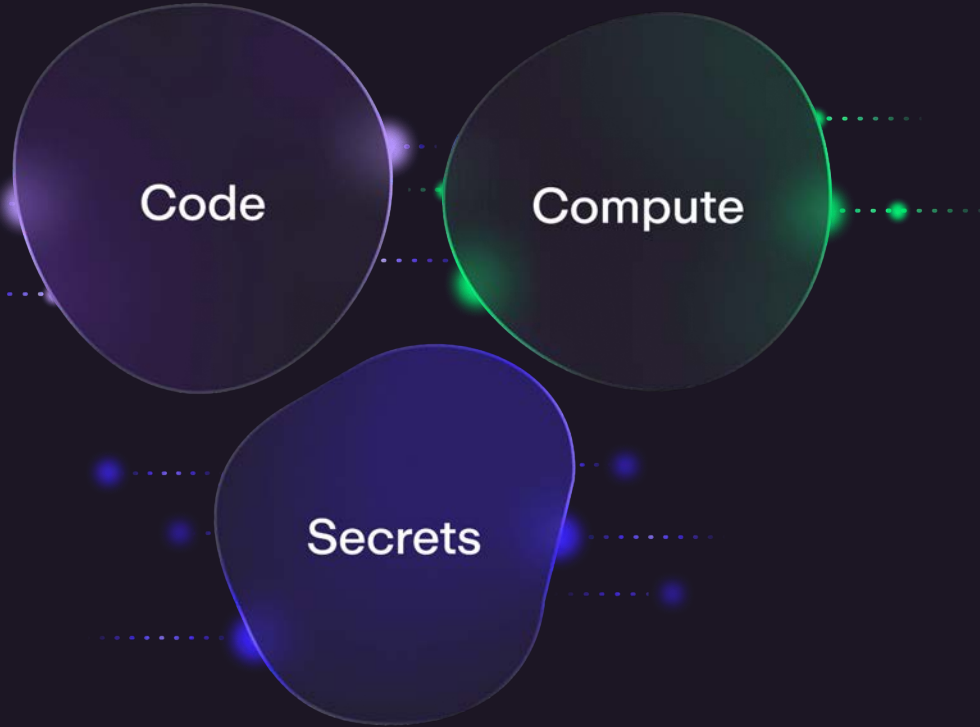
Nic Manoogian
Head of Engineering

Doppler

SecretOps

Storage

Governance

Orchestration

Lifecycle

Observability

Doppler

SecretOps

Secrets storage

Secrets governance

Secrets orchestration

Secrets lifecycle

Secrets observability

- Where are secrets stored?

- How do I get the secrets I need to run my app?

- How do I add a secret to the app?

- Sprawl

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backend > ⌥ dev ⌄

Save ⋯

Secrets   Config Syncs   Access   Logs

Active (10)

⊟ COOKIE_SIGNING_KEY	String ⌄	●●●●●● ⋯
⊟ DB_HOST	String ⌄	●●●●●● ⋯
⊟ DB_PASSWORD	String ⌄	●●●●●● ⋯
⊟ DB_PORT	Integer ⌄	5432 ⋯
⊟ DB_USER	String ⌄	●●●●●● ⋯
⊟ LOG_LEVEL	String ⌄	debug ⋯
⊟ MAX_THREADS	Integer ⌄	10 ⋯
⊟ TWILIO_FRIENDLY_NAME	String ⌄	●●●●●● ⋯
⊟ TWILIO_SECRET	String ⌄	●●●●●● ⋯
⊟ TWILIO_SID	String ⌄	●●●●●● ⋯

+ Add Secret ⌄

↻ **Rotated Secrets**   +
Automatically rotate your secrets. Learn more about rotated secrets

+ Add Rotated Secret

↙ **Config Inheritance**   ⋯

Navigation sidebar:

- Projects
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Search for Shortcuts, Projects, Secrets, etc.   ⌘+K

Rocketship Co
Enterprise Plan

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backend > dev

1 UNSAVED CHANGE Save

Secrets   Config Syncs   Access   Logs

Active (11)

SENDGRID_API_KEY	String	pzXIKiK7DUQHNYpodUj2qhv8ujTXza0U336CXu12fN7	
COOKIE_SIGNING_KEY	String	●●●●●●	
DB_HOST	String	●●●●●●	
DB_PASSWORD	String	●●●●●●	
DB_PORT	Integer	5432	
DB_USER	String	●●●●●●	
LOG_LEVEL	String	debug	
MAX_THREADS	Integer	10	
TWILIO_FRIENDLY_NAME	String	●●●●●●	
TWILIO_SECRET	String	●●●●●●	
TWILIO_SID	String	●●●●●●	

+ Add Secret

↻ Rotated Secrets
Automatically rotate your secrets. Learn more about rotated secrets

+ Add Rotated Secret

Members Syncs ...

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Development   2 configs

+

● dev
active 20 minutes ago

↳ ● dev_personal
active 0 seconds ago

Staging   1 config

+

1 stg
active 1 year ago

Production   1 config

+

1 prd
active 2 days ago

SecretOps

Secrets storage

Secrets governance

Secrets orchestration

Secrets lifecycle

Secrets observability

- Who has access to these secrets?
- Automated onboarding, scaling, and offboarding
- Track secrets like git

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Rocketship Co
Enterprise Plan

backend > ⌥ **stg** ⌄

Secrets   Config Syncs   Access   **Logs**

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- ⊙ Status

● **Today**

Nic Manoogian
Modified secrets and saved to vault

TWILIO_FRIENDLY_NAME	—	ᴷᴱᵞ ••••••	String	+	ᴷᴱᵞ ••••••	String
TWILIO_SECRET	—	ᴷᴱᵞ ••••••	String	+	ᴷᴱᵞ ••••••	String
TWILIO_SID	—	ᴷᴱᵞ ••••••	String	+	ᴷᴱᵞ ••••••	String

11:03 AM EDT · Chrome · OS X 10.15.7 · 🔗 pqYOIJjSsUkIBCbyHe8AQIIA

Nic Manoogian
Modified secrets and saved to vault

| SENDGRID_API_KEY | | | + | ᴷᴱᵞ •••••• | String |

11:02 AM EDT · Chrome · OS X 10.15.7 · 🔗 uPEWILi5AaYRvm6Rsy22r9dG

Nic Manoogian
Modified secrets and saved to vault

| DB_PASSWORD | — | ᴷᴱᵞ •••••• | String | + | ᴷᴱᵞ •••••• | String |

11:02 AM EDT · Chrome · OS X 10.15.7 · 🔗 e9XBsJ7DF32yJiGdiGYEVb70

Nic Manoogian
Modified secrets and saved to vault

| LOG_LEVEL | — | ᴷᴱᵞ debug | String | + | ᴷᴱᵞ warn | String |

11:02 AM EDT · Chrome · OS X 10.15.7 · 🔗 7wfW8xm5rPTMzAPfZti2tTTB

● **November 21st, 2024**

Nic Manoogian
Modified secrets and saved to vault

| SENDGRID_API_KEY | — | ᴷᴱᵞ •••••• | String |

1:33 PM EDT · Chrome · OS X 10.15.7 · 🔗 rCKih0WQ1bMDuahxurXNUE7o

SecretOps

Secrets storage

Secrets governance

Secrets orchestration

Secrets lifecycle

Secrets observability

- How do I get a secret into prod if I don't have access?
- Whose approval do I need to get?
- *Merge* secrets like git

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Change Requests 〉 **New Change Request**

Cancel   Preview Change Request →

Change Requests are created by secret then organized, reviewed and applied by config.

Title

Add SendGrid API Key

Description   Optional

Add new API for upcoming email integration (ENG-1352)

Project ⓘ   **Config(s)**

backend   dev ×   stg ×   prd ×   ✕

Secret Name

SENDGRID_API_KEY

dev	···	String ▾	8ff3511aa487e863061ddacb4c126c0e	👁
stg	···	String ▾	a6963d408c0d4e02aa28b13c356e6653	👁
prd	···	String ▾	5f7c13965cda98ff93985924a3562c04	👁

🗑 Delete

+

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Change Requests > **Preview**

Edit   Submit Change Request →

Add SendGrid API Key

Add new API for upcoming email integration (ENG-1352)

backend

dev
In Review

| SENDGRID_API_KEY | — | ••• 00000000000000000000 | String | + | ••• 8ff3511aa487e863061ddacb4c126c0e | String |

stg
In Review

| SENDGRID_API_KEY | — | ••• bOyFTykaQQlyJtFHbWqvhY4BmK0aCfO9o2sq3eBJTY1 | String | + | ••• a6963d408c0d4e02aa28b13c356e6653 | String |

prd
In Review

| SENDGRID_API_KEY | | | + | ••• 5f7c13965cda98ff93985924a3562c04 | String |

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Enterprise Plan

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Change Requests > **Add SendGrid API Key**

Add new API for upcoming email integration (ENG-1352)

Status	Opened By	Created
Open	Nic Manoogian	Fri, Nov 22, 2024, 11:24:51 AM EST

backend

dev   ✓ Approved ▾   ↺ Approve   ↑ Apply to Config

| SENDGRID_API_KEY | — | ••• 000000000000000000000 | String | + | ••• 8ff3511aa487e863061ddacb4c126c0e | String |

stg   ✓ Approved ▾   ↺ Approve   ↑ Apply to Config

| SENDGRID_API_KEY | — | ••• bOyFTykaQQlyJtFHbWqvhY4BmK0aCfO9o2sq3eBJTY1 | String | + | ••• a6963d408c0d4e02aa28b13c356e6653 | String |

prd   ⏱ In Review ▾   ✓ Approve   ↑ Apply to Config

| SENDGRID_API_KEY | | | | + | ••• 5f7c13965cda98ff93985924a3562c04 | String |

Edit   Close Change Request

SecretOps

Secrets storage

Secrets governance

Secrets orchestration

Secrets lifecycle

Secrets observability

- **Getting secrets to where they are used**
- **Meeting you where you are**
- **Automatic redeployment**

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Dashboard

API key

CLI

Database URL

Encryption key

API

Production key

AWS

GitHub

Local machine

Port variable

Teammates

SecretOps

Secrets storage

Secrets governance

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Secrets lifecycle

Secrets observability

- We should probably rotate our secrets
- Too risky or too time consuming
- With automation comes confidence

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Enterprise Plan

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backend ＞ ⑂ **prd** ⌄

Save ⋯

Secrets   Config Syncs   Access   Logs

Active (7)

Search for a secret...

COOKIE_SIGNING_KEY	String ⌄	▬▬▬▬▬▬
DB_HOST	String ⌄	•••••••
DB_PASSWORD	String ⌄	•••••••
DB_PORT	Integer ⌄	5432
DB_USER	String ⌄	•••••••
LOG_LEVEL	String ⌄	info
MAX_THREADS	Integer ⌄	100

+ Add Secret ▾

↻ Rotated Secrets (1)
Automatically rotate your secrets. Learn more about rotated secrets.   +

◉ TWILIO
Twilio, Last rotation 4 days ago | Next rotation in 26 days   ⋯

TWILIO_FRIENDLY_NAME	String	•••••••
TWILIO_SECRET	String	•••••••
TWILIO_SID	String	•••••••

↙ Config Inheritance
Automatically include one config's secrets in another. Learn more about config inheritance   ⋯

SecretOps

Secrets storage

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Secrets lifecycle

Secrets observability

- Every read increases the chance of a leak
- Which secrets has this person seen?
- Find the leak

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Search for Shortcuts, Projects, Secrets, etc.

Search by Secret Value

Supports only **exact** matches (ignoring all whitespace) for raw secret values ⓘ. Learn more in the docs.

9vTB2qMlIsppUXLOwiDRXk6ftEpUYGFeGGI6DMCxW3i

Search ⌘+↵

SECRET	PROJECT	CONFIGS
DB_PASSWORD	backend	prd

Rocketship Co
Enterprise Plan

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- 📣 Refer Friend
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🔍 Search for Shortcuts, Projects, Secrets, etc.   ⌘+K

backend ❯ 🔀 **prd** ⌄

Secrets   Config Syncs   Access   Logs

Active (7)

⚫ COOKIE_SIGNING_KEY	String ⌄	▭▭▭▭▭▭▭▭
⚫ DB_HOST	String ⌄	••••••
⚫ DB_PASSWORD	String ⌄	••••••
⚫ DB_PORT	Integer ⌄	5432
⚫ DB_USER	String ⌄	••••••
⚫ LOG_LEVEL	String ⌄	info
⚫ MAX_THREADS	Integer ⌄	100

🔄 Rotated Secrets (1)
Automatically rotate your secrets. Learn more about rotated secrets

⬤ TWILIO
Twilio, Last rotation 4 days ago | Next rotation in 26 days

⚫ TWILIO_FRIENDLY_NAME	String	••••••
⚫ TWILIO_SECRET	String	••••••
⚫ TWILIO_SID	String	••••••

↙ Config Inheritance
Automatically include one config's secrets in another. Learn more about config inheritance

---

DB_PASSWORD   ✕
backend ❯ prd

User Access History   **Version History**

| Current (v3) ⌄ | All Viewers ⌄ | All Methods ⌄ |

VIEWER	METHOD	FIRST READ	LAST READ
⬤ Doppler Sync Bot Azure Vault	Azure Key Vault https://doppler-testing-va...	Nov 22, 2024 at 11:21 AM EDT	Nov 22, 2024 at 11:21 AM EDT
⬤ Doppler Sync Bot Doppler-57032 IAM	AWS Secrets Manager /testing00000000 (us-ea...	Nov 22, 2024 at 11:21 AM EDT	Nov 22, 2024 at 11:21 AM EDT
⬤ Nic Manoogian 2600:1700:3d40:7...	Dashboard OS X 10.15.7	chrome	Nov 22, 2024 at 11:21 AM EDT	Nov 22, 2024 at 11:21 AM EDT

3 items total   ‹ 1 ›

SecretOps

- 🔒 Storage
- 🪪 Governance
- 🎛 Orchestration
- 🕐 Lifecycle
- 🎯 Observability

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Thank you!

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Doppler