



ZSCALER AND THREATCONNECT DEPLOYMENT GUIDE

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Terms and Acronyms

The following table defines acronyms used in this deployment guide. When applicable, a Request for Change (RFC) is included in the Definition column for your reference.

CA Central Authority (Zscaler) CSV Comma-Separated Values DLP Data Loss Prevention DNS Domain Name Service DPD Dead Peer Detection (RFC 3706) GRE Generic Routing Encapsulation (RFC2890) ICMP Internet Control Message Protocol IdP Identity Provider IKE Internet Key Exchange (RFC2409) IPS Intrusion Prevention System IPSec Internet Protocol Security (RFC2411)
DLP Data Loss Prevention DNS Domain Name Service DPD Dead Peer Detection (RFC 3706) GRE Generic Routing Encapsulation (RFC2890) ICMP Internet Control Message Protocol IdP Identity Provider IKE Internet Key Exchange (RFC2409) IPS Intrusion Prevention System IPSec Internet Protocol Security (RFC2411)
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IKE Internet Key Exchange (RFC2409) IPS Intrusion Prevention System IPSec Internet Protocol Security (RFC2411)
IPS Intrusion Prevention System IPSec Internet Protocol Security (RFC2411)
IPSec Internet Protocol Security (RFC2411)
PFS Perfect Forward Secrecy
PSK Pre-Shared Key
SaaS Software as a Service
SSL Secure Socket Layer (RFC6101)
TLS Transport Layer Security
VDI Virtual Desktop Infrastructure
XFF X-Forwarded-For (RFC7239)
ZPC Zscaler Posture Control (Zscaler)
ZDX Zscaler Digital Experience (Zscaler)
ZIA Zscaler Internet Access (Zscaler)
ZPA Zscaler Private Access (Zscaler)

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About This Document

The following sections describe the organizations and requirements of this deployment guide.

Zscaler Overview

Zscaler (NASDAQ: ZS) enables the world's leading organizations to securely transform their networks and applications for a mobile and cloud-first world. Its flagship Zscaler Internet Access (ZIA) and Zscaler Private Access (ZPA) services create fast, secure connections between users and applications, regardless of device, location, or network. Zscaler delivers its services 100% in the cloud and offers the simplicity, enhanced security, and improved user experience that traditional appliances or hybrid solutions can't match. Used in more than 185 countries, Zscaler operates a massive, global cloud security platform that protects thousands of enterprises and government agencies from cyberattacks and data loss. To learn more, see Zscaler's website.

ThreatConnect Overview

ThreatConnect enables threat intelligence operations, security operations, and cyber risk management teams to work together for more effective, efficient, and collaborative cyber defense and protection. With ThreatConnect, organizations infuse ML and Al-powered threat intel and cyber risk quantification into their work, allowing them to orchestrate and automate processes to get the necessary insights and respond faster and more confidently than ever before. Over 200 enterprises and thousands of security professionals rely on ThreatConnect every day to protect their organizations' most critical assets. To learn more, refer to ThreatConnect's website.

Audience

This guide is for network administrators, endpoint and IT administrators, and security analysts responsible for deploying, monitoring, and managing enterprise security systems. For additional product and company resources, see:

- · Zscaler Resources
- ThreatConnect Resources
- Appendix A: Requesting Zscaler Support

Software Versions

This document was authored using the latest version of Zscaler software.

Request for Comments

- For prospects and customers: Zscaler values reader opinions and experiences. Contact <u>partner-doc-support@</u>
 <u>zscaler.com</u> to offer feedback or corrections for this guide.
- For Zscaler employees: Contact <u>z-bd-sa@zscaler.com</u> to reach the team that validated and authored the
 integrations in this document.

Zscaler and ThreatConnect Introduction

Overviews of the Zscaler and ThreatConnect applications are described in this section.



If you are using this guide to implement a solution at a government agency, some of the content might be different for your deployment. Efforts are made throughout the guide to note where government agencies might need different parameters or input. If you have questions, contact your Zscaler Account team.

ZIA Overview

ZIA is a secure internet and web gateway delivered as a service from the cloud. Think of ZIA as a secure internet on-ramp—just make Zscaler your next hop to the internet via one of the following methods:

- · Setting up a tunnel (GRE or IPSec) to the closest Zscaler data center (for offices).
- · Forwarding traffic via our lightweight Zscaler Client Connector or PAC file (for mobile employees).

No matter where users connect—a coffee shop in Milan, a hotel in Hong Kong, or a VDI instance in South Korea—they get identical protection. ZIA sits between your users and the internet and inspects every transaction inline across multiple security techniques (even within SSL).

You get full protection from web and internet threats. The Zscaler cloud platform supports Cloud Firewall, IPS, Sandboxing, DLP, and Isolation, allowing you to start with the services you need now and activate others as your needs grow.

Zscaler Resources

The following table contains links to Zscaler resources based on general topic areas.

Name	Definition
ZIA Help Portal	Help articles for ZIA.
Zscaler Tools	Troubleshooting, security and analytics, and browser extensions that help Zscaler determine your security needs.
Zscaler Training and Certification	Training designed to help you maximize Zscaler products.
Submit a Zscaler Support Ticket	Zscaler Support portal for submitting requests and issues.

The following table contains links to Zscaler resources for government agencies.

Name	Definition
ZIA Help Portal	Help articles for ZIA.
Zscaler Tools	Troubleshooting, security and analytics, and browser extensions that help Zscaler determine your security needs.
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Submit a Zscaler Support Ticket	Zscaler Support portal for submitting requests and issues.

ThreatConnect TI Ops Platform Overview

The ThreatConnect TI Ops Platform is more than a threat intelligence platform (TIP). It's an Al-powered platform that is a force multiplier for your cyber threat intel (CTI) team. The ThreatConnect Platform is the highly scalable and flexible solution required for implementing your cyber threat intelligence. It aggregates and enriches threat intel into a single location, allowing intel to be analyzed, prioritized, and actioned against the most relevant threats using Al and ML, automation, and robust interoperability across the tools in your enterprise. It also enables the organizations' cybersecurity teams to identify, investigate, and respond to threats more efficiently and accurately

ThreatConnect Resources

The following table contains links to ThreatConnect support resources.

Name	Definition
ThreatConnect Learning Portal	Online learning portal for ThreatConnect solutions.
ThreatConnect API Documentation	Online documentation for ThreatConnect API.
ThreatConnect App Documentation	Online documentation for the ThreatConnect App Framework.
ThreatConnect Customer Support	Support portal for ThreatConnect customers.

Zscaler ThreatConnect Integration

There are currently two apps that comprise the integration between the ThreatConnect Platform and Zscaler. The first is the Zscaler Job App, which selects certain URL and Host indicators and adds them to a Zscaler block list. The second is the Zscaler Playbook App that can perform several actions with the Zscaler platform, such as managing blocklists, retrieving details on DLP Dictionaries, submitting files to the Zscaler sandbox and much more.

Refer to the following ThreatConnect technical documentation and release notes:

- · Zscaler Internet Access: Playbook
- · Zscaler Internet Access: Job

Installing the Zscaler Job App and Playbook App in the ThreatConnect Platform

To install the Zscaler Job app and Playbook app:

- 1. Go to the **App Catalog** on the **TcExchange** in the ThreatConnect Platform.
- 2. Click the **Catalog** tab and search for <code>Zscaler</code> in the search bar.
 - a. The Zscaler Job App referred to in this guide is the Zscaler Internet Access entry of the Organization category.
 - b. The Zscaler Playbook App referred to in this guide is the Zscaler Internet Access entry of the Playbook category. Check to always use the latest version if this is the first time the app is being installed. You can use older versions, but they tend not to have the latest features. Click the **Add** (+) icon to install the playbook app.

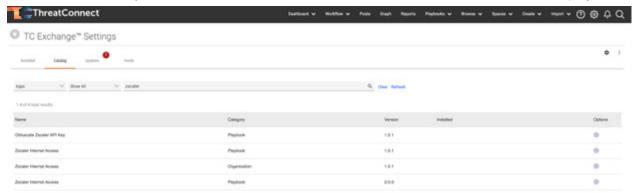


Figure 1. Catalog

3. Click **Install** to install the Job and Playbook app. For both, a new window appears and displays the release notes. Select Allow all organizations if all organizations on the ThreatConnect Platform need access to the Job App.



Figure 2. Release Notes

4. After an app is installed, a checkmark appears next to it when viewing the Catalog tab with the Zscaler search term populated.



Figure 3. Installed apps

Zscaler Internet Access Playbook App Usage

In order to use the Zscaler Internet Access Playbook App, it must be added to a playbook. To create a playbook:

1. Go to the Playbooks tab and click Create Playbook.



Figure 4. Create Playbook

2. In the window that displays, give a name to the playbook and select Playbook as the type. Optionally, provide a description.

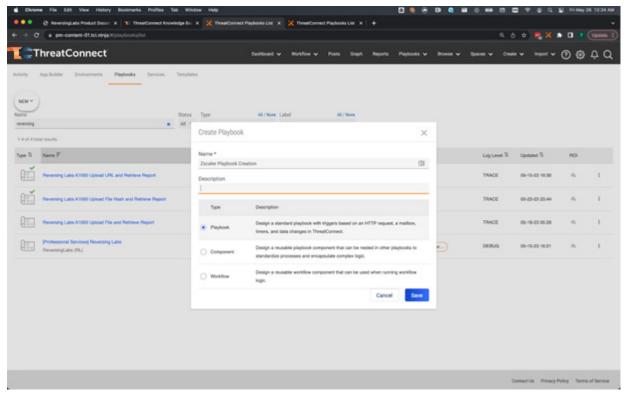


Figure 5. Playbook name

3. After the playbook is created, click the **Apps** section and enter Zscaler as the search term in the search bar. Click the **Zscaler Internet Access** app and it appears in the playbook canvas.

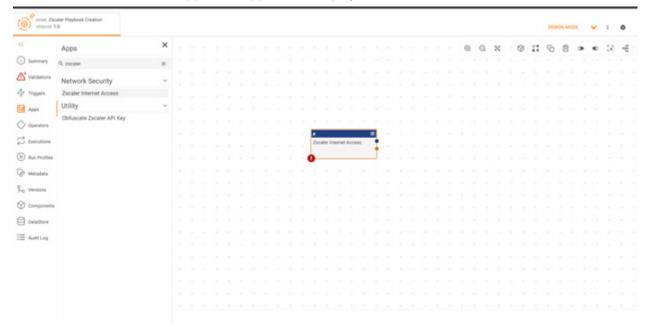


Figure 6. Zscaler Internet Access App

4. Double clicking the app opens the **Edit App** interface. Zscaler recommends toggling **Inline Steps** so that you can completely see the configuration.

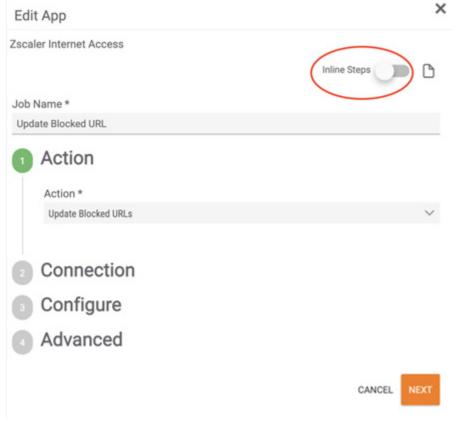


Figure 7. Edit app

5. Click the **Document** icon next to the inline steps to display the **Documentation** for the app.

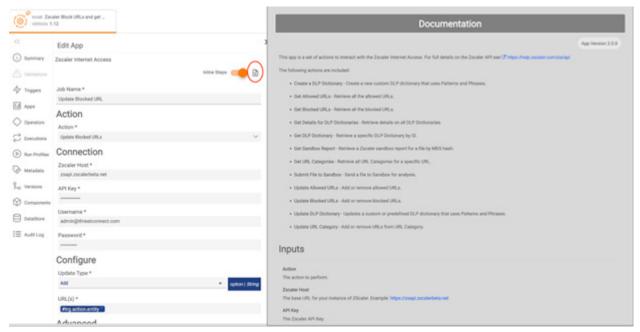


Figure 8. Documentation

6. To use the app, edit the app to give it a name representing its function in the playbook. Under Action, select the mode of operation for the app as this is a multifunction app. Note that the fields under the **Configure** section change based on the action selected.

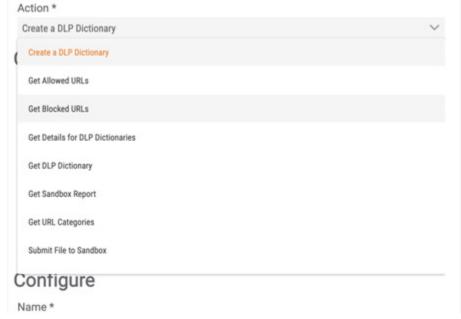


Figure 9. Actions

7. Under Connection, enter the Zscaler Host address, Zscaler API Key, the Zscaler login Username and Password.

Connection



Figure 10. Connection

8. In this example, the Configure section consists of the options for the Update Blocked URLs action. For each action type, these configuration options differ.



Figure 11. Configure

9. Certain actions contain an Advanced section, but depending on the previous configuration, they might not need to be configured. Click Save.

Advanced

No inputs to complete in this section.



Figure 12. Advanced

10. After saving the edits with no validation errors, the app is ready to use and can be used in a playbook. You can use multiple Zscaler Internet Access Playbook Apps with different actions in a single playbook.

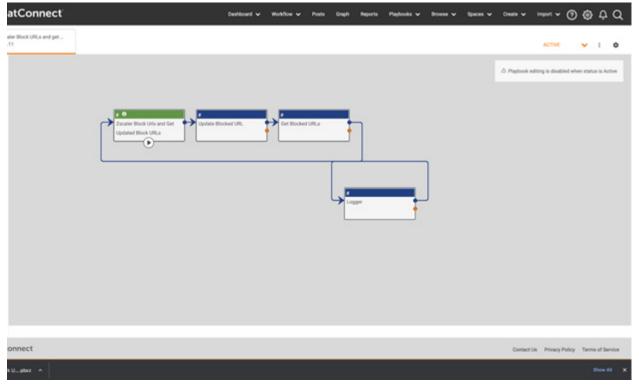


Figure 13. Playbook apps

11. After a playbook is ready for use, select **Active** in the top right-hand corner.

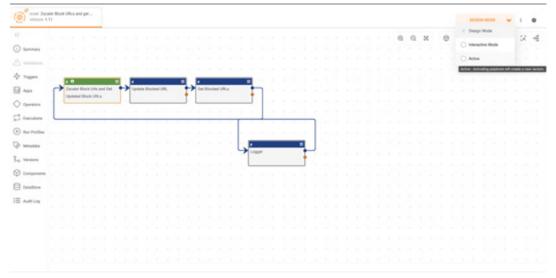


Figure 14. Activate playbook

The playbook is triggered based on the type of trigger selected. In this example, a user action trigger was selected as well as the indicator type of URL. This playbook activates on a URL indicator.

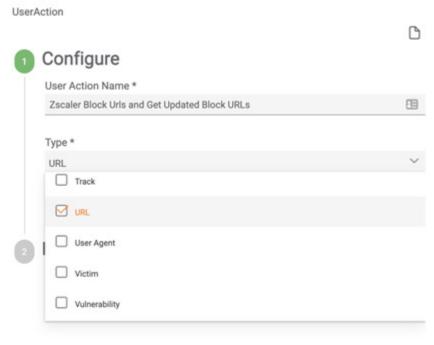


Figure 15. Trigger action

12. Navigate to the Browse tab and select a URL indicator to activate the playbook.

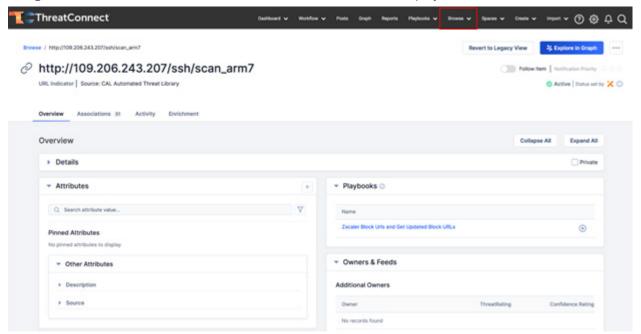


Figure 16. Browse tab

13. You can see each playbook execution in the Executions section of the playbook. Executions marked with a red icon mean that there was an error with the playbook. Executions marked with a green icon mean that the playbook completed successfully.

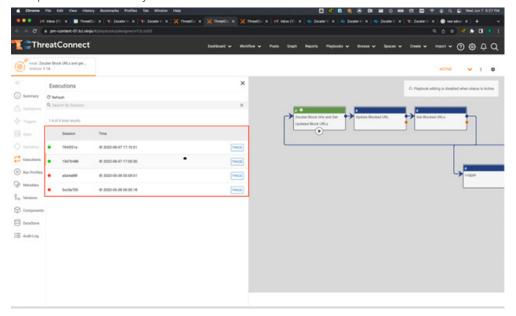


Figure 17. Playbook execution

14. After a playbook has successfully completed, you can check the effects of the playbook on the ZIA Admin Portal. For example, you can see the effects of **Update Blocked URLs** action by going to **Policy > Security > Advanced Threat Protection.**

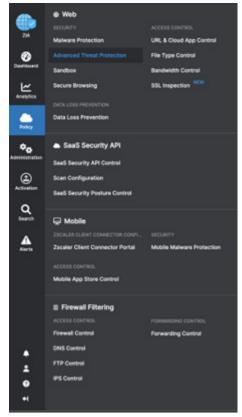


Figure 18. Update Blocked URLs

15. Scroll down to the **Blocked Malicious URLs** section to see that the indicator the playbook ran on was added.



Figure 19. Advanced Threat Protection

ZIA Job App Usage

To use the ZIA Job App:

1. Go to the Org Settings section of the ThreatConnect Platform using the gear menu.

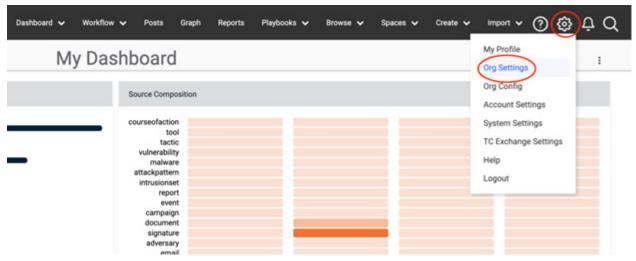


Figure 20. Organization Settings

2. Check that there is an API user in your organization under the **Membership** tab.

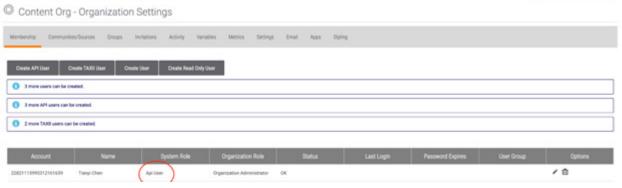


Figure 21. Membership tab

3. If there is no user created for the API User, click Create API User.

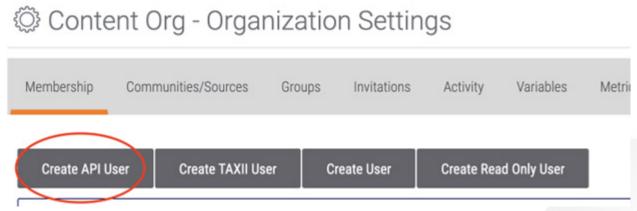


Figure 22. Create API User

- 4. Select Organization Administrator as the Organization Role. Note the Secret Key as it is only shown once.
- 5. Click Save.

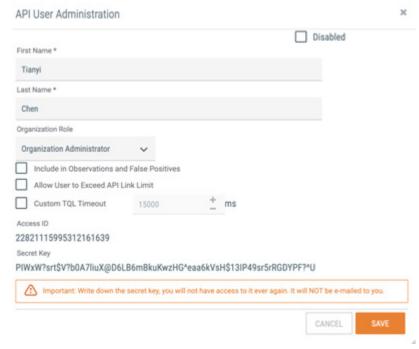


Figure 23. API User Administration

6. Select the **Apps** tab under **Organization Settings**, and click **Add** (+) on the **Jobs** page to create a Job.

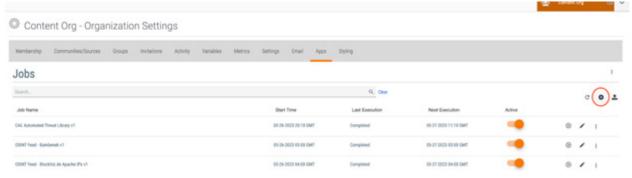


Figure 24. Add a job

- 7. Select a Job to create. Give the Job an appropriate name and select **Zscaler Internet Access** as the **Run Program**.
- 8. Click Next.

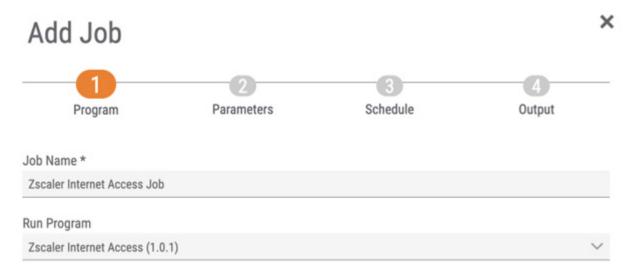


Figure 25. Job Name

- 9. Mandatory configuration parameters are marked with an asterisk (*) in the **Add Job** wizard. Each configuration parameter is explained next.
 - a. For API User, select an API User to use from the drop-down menu.
 - b. For Zscaler Host, select the appropriate Zscaler Host that matches your login URL for Zscaler.
 - c. For API Key, enter the Zscaler API Key.
 - d. For **Username**, enter the Zscaler username that is used to log in to the Zscaler host.
 - e. For Password, enter the Zscaler password that is used to log in to the Zscaler host.
 - f. (Optional) For **Custom URL Category**, select the Zscaler URL category that is added to the URL and Host indicators in the Zscaler host. This custom Category groups all of the indicators and host sent to Zscaler if set.
 - g. For **Owner**, Choose the owner in the ThreatConnect platform to pull data from. Each owner represents a source containing Threat Intelligence.
 - h. For Indicators, select either Host indicators or URL Indicators to send to the Zscaler host.
 - i. (Optional) For Tag(s) to Select, enter tags by which to filter the data in the sources.
 - j. (Optional) For Minimum Threat Rating, select the threshold cut off for URL and Host indicators.
 - k. (Optional) For Minimum Confidence Rating, select the confidence rating cut off for URL and Host indicators.
 - I. For Logging Level, select how verbose the logs for the job app are.

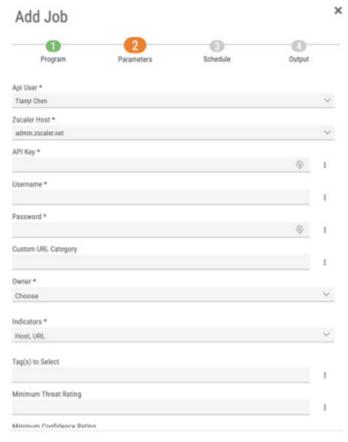


Figure 26. Add job

10. Click Next.

11. Set the **Schedule** of the job app for either **Daily** or a set frequency.

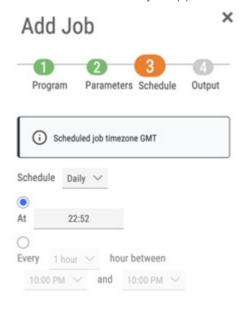


Figure 27. Schedule

12. Next, configure notifications for the Job app. Zscaler recommends you enable notifications for job failures.

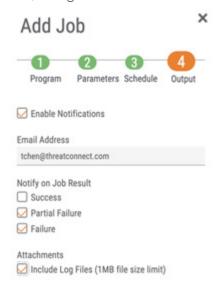


Figure 28. Notifications

- 13. Click **Save** to finish configuring the job app.
- 14. Go to the created job and select **Active**.



Figure 29. Activate job

The Zscaler Internet Access job is active and runs as scheduled.

After the Job is run, the last execution field is the status of the run. If the status is Error or Partial Error, there was an issue with the run. Usually this is due to authentication issues, data mismatch, or API errors. If the last execution Running, then the job is currently running and shows Completed when it is complete.



Figure 30. Job status

- 15. After the Job is finished, navigate to the ZIA Admin Portal to check the result of the job run. If no custom categories were set, the URL and Host indicators are automatically added to the Zscaler block list.
- 16. If a custom URL category was set, go to Administration > Access Control > URL Categories to view the result of the job run.

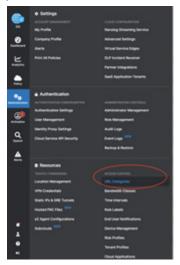


Figure 31. URL Categories

17. In the **URL Categories page**, click the **Custom URL** category section and the custom URL category set appears.

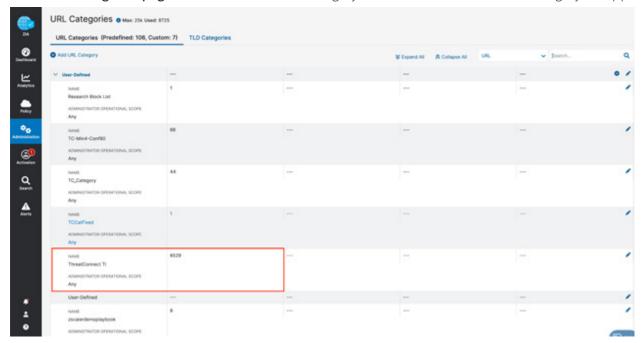


Figure 32. Custom URL

18. Click the **Edit** icon.

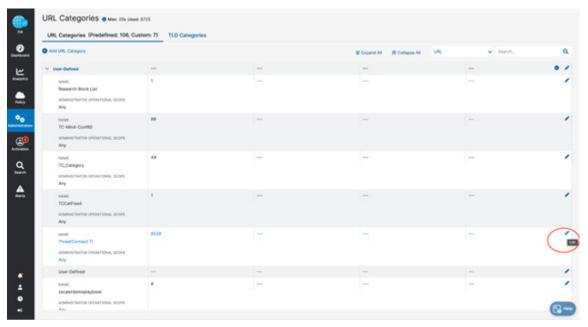


Figure 33. Edit URLs and Hosts

You can view the blocked URLs and Hosts.

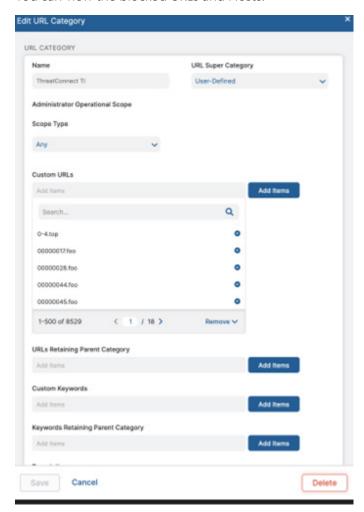


Figure 34. Edit blocked URLs and Hosts

Appendix A: Requesting Zscaler Support

If you need Zscaler Support to provision certain services or to help troubleshoot configuration and service issues, it is available 24/7/365.

To contact Zscaler Support:

1. Go to Administration > Settings > Company Profile.

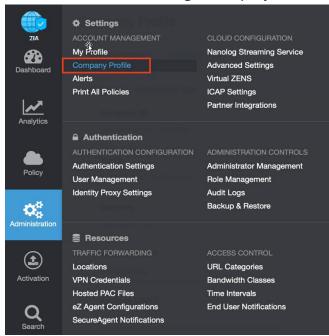


Figure 35. Collecting details to open support case with Zscaler TAC

2. Copy your Company ID.

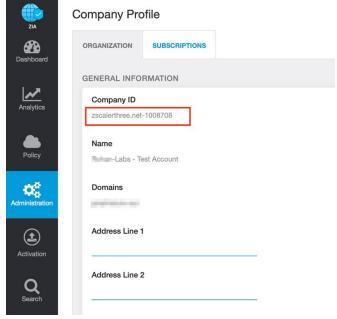


Figure 36. Company ID

3. With your company ID information, you can open a support ticket. Go to **Dashboard > Support > Submit a Ticket**.

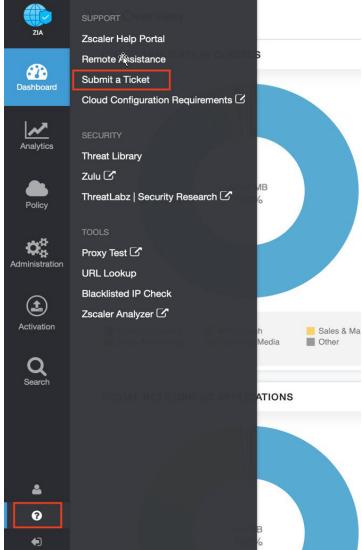


Figure 37. Submit a ticket