

ZSCALER AND GURUCUL DEPLOYMENT GUIDE

BUSINESS DEVELOPMENT 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.

| Acronym | Definition |
|---------|--|
| СА | 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) |
| NSS | Nanolog Streaming Service |
| PFS | Perfect Forward Secrecy |
| PSK | Pre-Shared Key |
| SaaS | Software as a Service |
| SIEM | Security Information and Event Management |
| SOAR | Security Orchestration, Automation, and Response |
| SSL | Secure Socket Layer (RFC6101) |
| TLS | Transport Layer Security |
| UEBA | User and Entity Behavior Analytics |
| VDI | Virtual Desktop Infrastructure |
| XFF | X-Forwarded-For (RFC7239) |
| ZCP | Zscaler Cloud Protection (Zscaler) |
| ZDX | Zscaler Digital Experience (Zscaler) |
| ZIA | Zscaler Internet Access (Zscaler) |
| ZPA | Zscaler Private Access (Zscaler) |

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 or follow Zscaler on Twitter @zscaler.

Gurucul Overview

Gurucul is a global cyber security company that is changing the way organizations protect their most valuable assets, data and information from insider and external threats both on-premises and in the cloud. Gurucul's real-time Cloud-Native Security Analytics and Operations Platform provides customers with a Next-Generation SIEM, UEBA, Open XDR, and Identity & Access Analytics. It combines machine learning behavior profiling with predictive risk-scoring algorithms to predict, prevent, and detect breaches. Gurucul technology is used by Global 1000 companies and government agencies to fight cybercrimes, IP theft, insider threat and account compromise as well as for log aggregation, compliance and risk-based security orchestration and automation for real-time extended detection and response. To learn more, refer to **Gurucul'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:

- <u>Appendix A: Requesting Zscaler Support</u>
- Zscaler Resources
- Gurucul Resources

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 Gurucul Introduction

Overviews of the Zscaler and Gurucul 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, please 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 onramp—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 Browser Isolation, allowing you to start with the services you need now and activate others as your needs grow.

ZPA Overview

ZPA is a cloud service that provides secure remote access to internal applications running on a cloud or data center using a Zero Trust framework. With ZPA, applications are never exposed to the internet, making them completely invisible to unauthorized users. The service enables the applications to connect to users via inside-out connectivity rather than extending the network to them.

ZPA provides a simple, secure, and effective way to access internal applications. Access is based on policies created by the IT administrator within the ZPA Admin Portal and hosted within the Zscaler cloud. On each user device, software called Zscaler Client Connector is installed. Zscaler Client Connector ensures the user's device posture and extends a secure microtunnel out to the Zscaler cloud when a user attempts to access an internal application.

Zscaler Resources

| Name | Definition |
|------------------------------------|---|
| ZIA Help Portal | Help articles for ZIA. |
| ZPA Help Portal | Help articles for ZPA. |
| 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 based on general topic areas.

| Name | Definition |
|------------------------------------|--|
| ZIA Help Portal | Help articles for ZIA. |
| ZPA Help Portal | Help articles for ZPA. |
| 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.

Gurucul Next-Gen SIEM Overview

Gurucul Next-Gen SIEM is focused on unburdening security teams from floods of alerts and false positives, leveraging automation to drastically reduce mean-time-to-detect (MTTD), and prioritizing investigations and response actions to lower mean-time-to-respond (MTTR). In addition, Gurucul Next-Gen SIEM provides the necessary capabilities to achieve or exceed compliance requirements and strongly maps to the MITRE Att&ck Framework. Gurucul also works natively within any cloud environment and is the only vendor that supports cross-cloud analytics for poly-cloud threat detection and response.

Gurucul Next-Gen SIEM improves data collection and infrastructure visibility, while automating and consolidating manual tasks related to correlation, analysis, investigation, and response actions. It is also one of the only solutions that automatically includes out-of-the-box threat content powered by threat intelligence and open-source machine learning (ML) models. This delivers immediate automated threat detection upon deployment.

Gurucul UEBA Overview

Gurucul User and Entity Behavior Analytics (UEBA) detects and responds quickly to threats based on an understanding of normal activity that continuously learns and adjusts to characterize suspicious and anomalous activity. Combined with our out-of-the-box threat content and other analytical capabilities, Gurucul UEBA can help security teams quickly distinguish malicious activity from false positives.

Gurucul Resources

The following table contains links to Gurucul support resources.

| Name | Definition |
|----------------------------|-------------------------------------|
| Support Portal | Gurucul customer support portal. |
| Product Technical Training | Gurucul product technical training. |

Introduction

This guide helps users to integrate Gurucul Risk Analytics (GRA) with Zscaler NSS Feeds and APIs. It also provides instructions for Configuring GRA with Zscaler. This document is not intended to suggest optimum configurations. It is assumed the reader has working knowledge of both suites of products involved and possesses the ability to perform the tasks outlined in the following sections. Administrators should have access to the product documentation for all products in order to install and configure the required components.

This document describes how to integrate Gurucul Next-Gen SIEM and UEBA products with ZIA. Gurucul integrates with ZIA using three different mechanisms:

- 1. NSS: NSS forwards ZIA logs over secure Syslog connection to Gurucul's log collection endpoint, which requires the deployment of a Zscaler NSS Virtual Machine (VM). ZIA logs do not support TLS encryption.
- 2. Cloud NSS: Gurucul integrates with ZIA through Cloud NSS using the following mechanisms:
 - a. AWS S3 Integration: ZIA can forward logs to a Gurucul-owned AWS S3 bucket.
 - b. HTTP Endpoint: ZIA can send logs to Gurucul HTTP endpoint using HTTP/HTTPS POST.
- 3. Log Streaming Service: ZPA can send logs to Gurucul using the Syslog endpoint.

Prerequisites

- · Zscaler Cloud NSS Service enabled or a Zscaler NSS VM is deployed.
- Zscaler Cloud API enabled and Zscaler user with Service Admin Group access.
- · ZPA Log Streaming Service.
- Gurucul HTTP Endpoint and/or S3 Bucket for your Gurucul tenant.

Integration Architecture

The following diagram shows the ZIA and Gurucul integration.



Figure 1. ZIA and Gurucul architecture

Logs Ingested

The following logs are ingested into Gurucul from ZIA.

| Integration Mechanism | Logs Ingested |
|-----------------------------|--|
| NSS Server / VM | Web Logs Firewall Logs |
| Cloud NSS (ZIA) Admin | Audit Logs Tunnel Logs Web Logs Firewall Logs DNS Logs DLP/CASB Logs |
| Log Streaming Service (ZPA) | User Activity and Status Browser Access Audit Logs Private Service Edge App Connector Status and Metrics |
| Zscaler API | Admin Audit Logs Event Logs User and Group Information |

Zscaler Prerequisites

To use the Cloud Service API:

- 1. File a ticket with Zscaler Support to enable the API for your account and create a user with Service Admin Rights.
- After the API is enabled, log in to the ZIA Admin Portal and go to Administration > Authentication > Cloud Service API Security > Cloud Service API Key to retrieve your API key or regenerate the API Key.

| Cloud Service API Security | | | | |
|----------------------------|--------------------------------------|-------------------------------------|-------------------|--|
| Cloud | I Service API Key | OAuth 2.0 Authorization Servers NEW | Sandbox API Token | |
| The bas | e URL for your API is zsapi . | zscalerbeta.net/apl/v1 | | |
| 🔁 Add A | PI Key | | | |
| No. | Кеу | | Last Modified By | |
| 1 | Vf9NES9EJEtx | | System | |
| | | | | |

Figure 2. Cloud Service API Key

Gurucul Configuration

The following sections details a list of endpoints and S3 buckets that are available to a Gurucul tenant after signup.

Gurucul S3 Bucket

The Gurucul S3 bucket used to send logs to and from ZIA is provisioned when the Gurucul Tenant signs up for either one or more of Gurucul's product suite. The name of the S3 bucket is available to be viewed in the console and is also sent with the welcome email during the signup process.

In this document, the bucket will be called GURUCUL-TENANT-S3-BUCKET.

Gurucul HTTP/HTTPS Endpoint

The Gurucul HTTP/HTTPS endpoint used to send logs to from ZIA is provisioned when the Gurucul Tenant signs up for either one or more of Gurucul's product suite. The URL of the HTTP/HTTPS endpoint is available to be viewed in the console and is also sent with the welcome email during the signup process.

In this document, the endpoint will be called GURUCUL-TENANT-HTTP-ENDPT.

Gurucul Syslog Endpoint

The Gurucul Syslog endpoint used to receive streaming logs from ZIA/ZPA is provisioned when the Gurucul Tenant signs up for either one or more of Gurucul's product suite. The URL of the Syslog endpoint is available to be viewed in the console and is also sent with the welcome email during the signup process. ZIA logs do not support TLS encryption.

In this document, the endpoint will be called GURUCUL-TENANT-SYSLOG-ENDPT.

API Token Creation

To use the Gurucul HTTP/HTTPS endpoint for ZIA logs, the tenant must create an authentication token that is later configured in ZIA Cloud NSS configurations. Perform the following steps:

- 1. Log in to the Gurucul console with Admin or System Admin rights.
- 2. Go to Configure > Security and Access > Web Service Management.
- 3. Click Add to create a new API token.
- 4. Fill in the name for the token as desired and click Generate.
- 5. Click **Create** to create and save the token.

| SECURITY AND PRIVACY | | | |
|---|--------|--------|--|
| Create Web Service Management | CANCEL | CREATE | |
| | | | |
| CLENT * ZIA.CLOUD.NSS.HTTPS API KEY * | | | |
| Generate | | | |



You can use the token in the ZIA Cloud NSS HTTP/HTTPS configurations.

API Data Source

To collect Admin Audit and Event Logs along with ZIA User and Group Information, set up the ZIA API connection:

- 1. Log in to the Gurucul console with Admin or System Admin rights.
- 2. Go to Configure > Data > Setup.
- 3. Click Add to create a new ZIA data source.
- 4. Fill in the following fields:
 - a. Connection Name: Enter the connection name to identify the data source.
 - b. Username: Enter the Zscaler username with API rights.
 - c. **Password**: Enter the password for the Zscaler User.
 - d. API Key: Enter the Zscaler Cloud Security Service API token associated with the user.
- 5. Click **Test Connection** to test the API connection.
- 6. Click Save or Update to save the connection details.

| e Configuration | | (0 |
|--------------------------|--|----|
| | | |
| TON NAME * | | |
| ier | | |
| SOURCE TYPE * | | |
| scaler | | |
| name • | | |
| ing in the second second | | |
| tword * | | |
| - | | |
| t Key * | | |
| | | |

Figure 4. API Data Source

Enable Zscaler Pipelines

Your Gurucul product is pre-packaged with all the required Zscaler pipelines.

Zscaler Cloud NSS pipelines are shared when using either S3 or HTTP endpoint URLs along with Syslog using Zscaler NSS servers. You can enable pipelines by performing the following steps:

- 1. Log in to the Gurucul console with Admin or System Admin rights.
- 2. Go to Pipelines > Activity.
- 3. Search for Zscaler pipelines by entering zscaler in the search bar.
- 4. For each pipeline you want to enable, click **Enable** in the **Action** column that corresponds to the pipeline.

| Zscaler Admin Audit Logs | Zscaler | Zscaler Proxy | Enabled | Audit History | 🗔 Edt 🖉 Duddu 🛞 Ran |
|--------------------------|---------------|---------------|----------|---------------|------------------------|
| Zecaler DNS Logs | DefaultSyslog | Zscaler Proxy | Disabled | Audit History | tate |
| Zscaler Event Logs | Zscaler | Zscaler Proxy | Enabled | Audit History | 🗔 Edit 🖉 Disabla 🛞 Kan |
| Zscaler Firewall Logs | DefaultSyslog | Zscaler Proxy | Disabled | Audit History | table |
| Zscaler Tunnel Logs | DefaultByslog | Zscaler Proxy | Disabled | Audit History | in fat 🗸 fuite |
| Zscaler Web Logs | DefaultSyslog | Zscaler Proxy | Enabled | Audit History | test Ø tisatie |

Figure 5. Pipelines

For Admin and Event logs, you can schedule the pipelines to run at the desired intervals. To schedule the pipeline:

- 1. Click Edit. This opens the Schedule tab.
- 2. Select the appropriate schedule and click **Start**.



Figure 6. Pipeline schedules

ZIA Configuration

The following sections describe how to configure ZIA.

Zscaler Cloud NSS Configuration

To set up the Cloud NSS feeds:

- 1. Log in to the ZIA Admin Portal.
- 2. Go to Administration > Nanolog Streaming Service > Cloud NSS Feeds.
- 3. Click Add Cloud NSS Feed.
- 4. In the Add Cloud NSS Feed window, fill in the following information:
 - a. For HTTP/HTTPS Endpoint:
 - i. Feed Name: Desired Feed Name
 - ii. NSS Type: NSS for Web or NSS for Firewall
 - iii. SIEM Rate: Unlimited
 - iv. SIEM Type: Other
 - v. OAuth 2.0 Authentication: Off
 - vi. Max Batch Size: 16 KB
 - vii. API URL: Enter GURUCUL-TENANT-HTTP-ENDPT
 - viii. HTTP Headers:
 - •Content-Type:application/x-www-form-urlencoded
 - · Content-Encoding: gzip
 - •apikey: <API Key from Gurucul console>
 - ix. Log Type:
 - · For Web Logs, select Web Log, Tunnel, or Admin Audit.

· For Firewall Logs, select DNS Logs or Firewall Logs.

- x. Feed Output Type: JSON
- xi. Feed Escape Character: Keep blank

xii. Timezone: GMT

| GENERAL | | |
|-------------------------|-------------|------------------|
| Feed Name | NSS Type | |
| Gurucul-Zscaler-NSS-URL | NSS for Web | NSS for Firewall |
| Status | | |
| Enabled Disabled | | |
| SIEM Rate | | |
| Unlimited Limited | | |

Figure 7. HTTP/HTTPS Endpoint General

| FORMATTING | |
|--|--|
| Log Type | Feed Output Type |
| | |
| JSON Array Notation | Feed Escape Character |
| | A* |
| Feed Output Format | |
| <pre>,"requestsize":"Xd(reqsize)","urlcategory":"Xs(urlcat) ,"useragent":"Xs(eua)","product:"NSS",location":"Xs(:"Xs(eurl)","vendon":"Zscaler","hostname":"Xs(s(ehost)", :"Xs(threatname)","filetype":"Xs(filetype)","appname", "urlsupercategory":"Xs(urlsupercat)","appclass":"Xs(a :"Xs(ealwareclass)","dlpditionaries":"%s(uploic)","+ :"Xs(contenttype)","unscannabletype":"Xs(unscannabletype";";"Xs(unscannabletype";"Xs(unscannabletype";"Xs(unscannabletype";"Xs(unscannabletype";"Xs(unscannabletype";"Xs(unscannabletype";"Xs(unscannabletype";";"Xs(unscannabletype";"Xs(unscannabletype";"Xs(unscannabletype";"Xs(unscannabletype";"Xs(unscannabletype";"Xs(unscannabletype";"Xs(unscannabletype";"Xs(unscannabletype";";"Xs(unscannabletype";"Xs(unscannabletype";";"Xs(unscannabletype";";"Xs(unscannabletype";";"Xs(unscannabletype";";"Xs(unscannabletype";";"Xs(unscannabletype";";"Xs(unscannabletype";";"Xs(unscannabletype";";"Xs(unscannabletype";";"Xs(unscannabletype";";"Xs(unscannabletype";";"Xs(unscannabletype";";";";";";";";";";";";";";";";";";";</pre> | <pre>>","serverip":"%s(sip)","requestmethod":"%s(reqmethod)","refererURL":"%s(ereferer)" (elocation)","ClientIP":"%s(cip)","status":"%s(respcode)","user":"%s(elogin)","url" "clientpublicIP":"%s(cintip)","threatcategory":"%s(malwarecat)","threatname" "%s(appname)","pagerisk":"%d(riskscore)","department":"%s(edepartment)" appclass)","dipengine":"%s(dipeng)","urlclass:"%s(rulclass)","threatclass" fileclass:"%s(fileclass)","buthrottle":"%s(device);","contenttype" ype)","deviceowner":"%s(deviceowner)","devicehostname":"%s(devicehostname)"</pre> |
| Timezone | |
| | |

Figure 8. HTTP/HTTPS Endpoint Formatting

| SIEM CONNECTIVITY | | | | |
|---|---------------------------|--------------------------|---|---|
| SIEM Type | | OAuth 2.0 Authentication | | |
| Other | | | | |
| Max Batch Size | | | | |
| 16 | кв 🗸 | | | |
| API URL | | | | |
| https://gra-test06-usea1-fwd.cloud.gurucul.co | om/gra/api/ingestActivity | | | |
| HTTP Headers | | | | |
| Key 1 | | Value 1 | | |
| Content-Type | | | 0 | ۰ |
| Key 2 | | Value 2 | | |
| Content-Encoding | | | 0 | • |
| Key 3 | | Value 3 | | |
| apikey | | | 0 | ۲ |
| Add HTTP Header | | | | |

Figure 9. HTTP/HTTPS Endpoint SIEM Connectivity

```
b. For S3 Bucket:
```

- i. Feed Name: Desired Feed Name
- ii. NSS Type: NSS for Web or NSS for Firewall
- iii. SIEM Rate: Unlimited
- iv. SIEM Type. S3
- v. AWS Access Id: Enter the AWS Access Key for the Bucket
- vi. AWS Secret Key: Enter the AWS Secret Key for the Bucket
- vii. Max Batch Size: 128 KB
- viii. API URL: https://GURUCUL-TENANT-S3-BUCKET.s3.region-code.amazonaws.com/zscalercloud-nss-logs/{optional/{NSSType}/{optionalLogType}}
- ix. HTTP Headers: apikey: <API Key from Gurucul console>

```
x. JSON Array Notation: False
```

- xi. Log Type:
 - · For Web Logs, select Web Log, Tunnel, or Admin Audit.
 - For Firewall Logs, select **DNS Logs** and **Firewall Logs**.
- xii. Feed Output Type: JSON
- xiii. Feed Escape Character: , \backslash "
- xiv. Timezone: GMT

| GENERAL | | | | | |
|-------------------------------|----------|--|-------------|------------------|--|
| Feed Name | | | NSS Type | | |
| Gurucul-Zscaler-N | 455-53 | | NSS for Web | NSS for Firewall | |
| Status | | | | | |
| C Enabled | Disabled | | | | |
| SIEM Rate | | | | | |
| Unlimited | Limited | | | | |
| | | | | | |

Figure 10. S3 Bucket General

| SIEM CONNECTIVITY | | | |
|---|--|-------------------------|---|
| SIEM Type | | | |
| | | | |
| AWS Access Id | | AWS Secret Key | |
| Enter Access Key ID | | Enter Secret Access Key | 0 |
| Max Batch Size | | | |
| 128 | | | |
| S3 Folder URL | | | |
| https://gra-test06-usea1-fwd.cloud.gurucul.com/gra/api/ingestActivity | | | |
| HTTP Headers | | | |
| Key 1 | | Value 1 | |
| apikey | | | 0 |
| Add HTTP Header | | | |
| | | | |

Figure 11. S3 Bucket SIEM Connectivity

| FORMATTING | | | | | |
|--|-----------------------|--|--|--|--|
| Log Type | Feed Output Type | | | | |
| | | | | | |
| JSON Array Notation | Feed Escape Character | | | | |
| | x• | | | | |
| Feed Output Format | | | | | |
| <pre>:"%s(eurl)", "vendor":"Zscaler", "hostname":"%s(ehost)", "clientpublicIP":"%s(cintip)", "threatcategory":"%s(malwarecat)", "threatname" :"%s(threatname)", "filetype":"%s(filetype)", "appname": "%s(appname)", "pagerisk":"%d(riskscore)", "department":"%s(edepartment)" , "urlsupercategory":"%s(urlsupercat), "appclass)", "dlpengine":"%s(lpeng)", "urlclass':"%s(urlclass)", "threatclass" :"%s(malwareclass)", "dlpdictionaries": "%s(dlpdict)", "fileclass': "%s(fileclass)", "buthrottle":"%s(buthrottle)", "contenttype" :"%s(contenttype)", "unscannabletype": "%s(unscannabletype)", "deviceowner": "%s(deviceowner)", "devicehostname": "%s(devicehostname)" , "keyprotectiontype": "%s(keyprotectiontype)")\}</pre> | | | | | |
| Timezone | | | | | |
| | | | | | |
| | | | | | |

Figure 12. S3 Bucket Formatting

- 5. After the firewall or web log feed has been configured, activate the changes as needed and test the feed by going to **Administration > Nanolog Streaming Service > Cloud NSS Feeds**.
- 6. Click the **Cloud** icon to send a test message or file and validate the connection. Wait for the success message Test Connectivity Successful: OK-Success (200).

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 13. Collecting details to open support case with Zscaler TAC

2. Copy your Company ID.



Figure 14. Company ID

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



Figure 15. Submit a ticket