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About This Document

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. For more information on Zscaler, visit www.zscaler.com or follow Zscaler on Twitter @zscaler.

Zscaler Resources

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

Name	Definition		
ZIA Help Portal	Help articles for ZIA.		
ZIA Test Page	Check from where you access the Zscaler Cloud.		
Zscaler Tools	A set of tools for keeping you secure inside the cloud and beyond.		
Zscaler Training and Certification	A comprehensive array of trainings & certifications for our Partners and Customers.		
Submit a Zscaler Support Ticket	Zscaler support portal for submitting requests and issues.		

AWS Overview

Amazon Web Services (AWS) (Nasdaq: <u>AMZN</u>) is the world's most comprehensive and broadly adopted cloud platform, offering over 200 fully featured services from data centers globally. Millions of customers—including the fastest-growing startups, largest enterprises, and leading government agencies—are using AWS to lower costs, become more agile, and innovate faster. For more information on AWS, visit <u>aws.amazon.com</u>.

AWS Resources

The following are AWS support resources.

Name	Definition		
Amazon S3 Help	Amazon Simple Storage Service documentation.		
AWS CLI	AWS Command Line Interface documentation.		
AWS CloudTrail Help	AWS CloudTrail documentation.		
AWS IAM Help	AWS IAM documentation.		

Audience

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

- Zscaler Overview
- AWS Resources
- Appendix C: Requesting Zscaler Support

Software Versions

This document was authored using the latest version of Zscaler Internet Access, 6.1.

Request for Comments

- **For Prospects / Customers:** We value reader opinions and experiences. Please contact us at <u>partner-doc-support@zscaler.com</u> to offer feedback or corrections for this guide.
- **For Zscaler Employees:** Please contact <u>z-bd-sa@zscaler.com</u> to reach the team that validated and authored the integrations in this document.

Zscaler and AWS Introduction

Zscaler Overview

Below are overviews of the Zscaler and AWS applications described in this section.

Zscaler Internet Access (ZIA) Overview

Zscaler Internet Access (ZIA) is a secure Internet and web gateway delivered as a service from the cloud. Think of it as a secure Internet onramp—all you do is 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 (ZCC) 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, CASB, and Browser Isolation, allowing you to start with the services you need now and activate others as your needs grow.

Amazon S3 Overview

Amazon Simple Storage Service (Amazon S3) is an object storage service offering industry-leading scalability, data availability, security, and performance. Customers of all sizes and industries can store and protect any amount of data for virtually any use case, such as data lakes, cloud-native applications, and mobile apps. With cost-effective storage classes and easy-to-use management features, you can optimize costs, organize data, and configure fine-tuned access controls to meet specific business, organizational, and compliance requirements.

About this Guide

This guide doesn't replace the official <u>Adding SaaS Application Tenants (Amazon S3)</u> help page but provides an alternate view of the process, including additional insights and notes on testing. It is assumed that the reader already has some familiarity with administering both ZIA and AWS.

Prerequisite

Before you can configure Amazon S3 as a SaaS Application Tenant, you must first enable it for your tenant (it is not enabled by default). Customers can contact their Zscaler account team to get the S3 tenant enabled for their Company ID (e.g., zscaler.net-12345678).

The Company ID for your specific tenant can be found on the **Administration > Organization** page. Once enabled, an Amazon S3 tile should be available as an option when adding a tenant on the **Administration > SaaS Application Tenants** page.

NOTE

It may be good to make sure that the ZIA **Admin UI Session Timeout** (on the **Administration > Advanced Settings** page) is not set too short during this configuration. You will start in the ZIA portal and then spend time in the AWS portal before returning to the ZIA portal to finish the configuration.

Initial Zscaler Configuration

In the ZIA Admin Portal navigate to the **Administration > SaaS Application Tenants** page and click on **Add SaaS Application Tenant**.

Select the Amazon S3 tile for Step 1 (Choose the SaaS Application Provider).

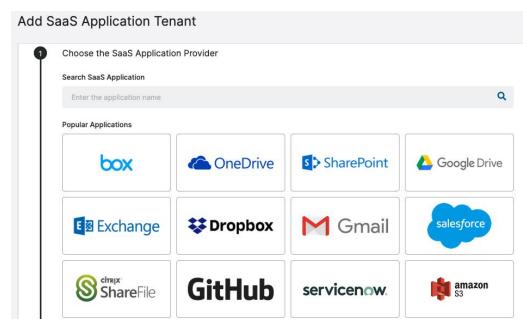


Figure 1. Add SaaS Application Tenant

Enter a name to use for this S3 tenant in **Step 2 (Name the SaaS Application Tenant)** and then copy the **Zscaler Connector Account Number** and **Zscaler Connector User ARN** that are created in **Step 3 (Authorize the SaaS Application)** for later use.

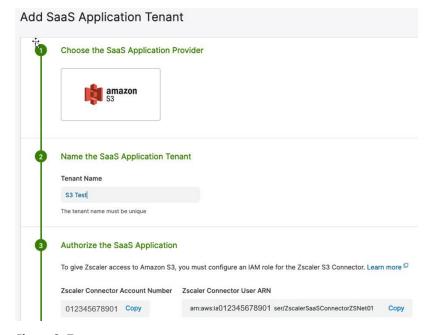


Figure 2. Tenant name

AWS Configuration (IAM Role)

The next steps are also documented in the <u>Adding SaaS Application Tenants</u> help page in the **Configure an IAM Role for the Zscaler S3 Connector** section (starting with step *iv*).

Log into the AWS portal and navigate to **Services > IAM** and click on **Access Management > Roles** in the left navigation pane.

1. Click on the **Create Role** button.



Figure 3. Create Role

2. Click on the **Another AWS account** tile as the type of trusted entity.

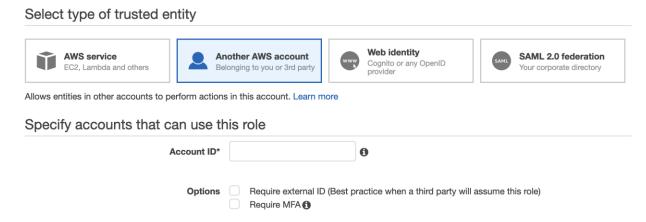


Figure 4. Trusted entity type

- 3. Enter the **Zscaler Connector Account Number** copied earlier in the **Account ID** text box, and make sure both **Options** are de-selected.
- 4. Click on the **Next: Permissions** button at the bottom.



Figure 5. Which accounts can use the role

5. Type in "AmazonS3FullAccess" into the search area and select the policy name found. Click on the **Next:**Tags button at the bottom.

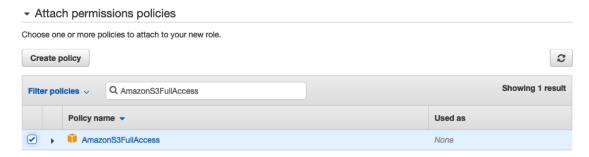


Figure 6. Attach permissions policies

6. Add tags if needed, and then click on the **Next: Review** button at the bottom.

Add tags (optional)

IAM tags are key-value pairs you can add to your role. Tags can include user information, such as an email address, or can be descriptive, such as a job title. You can use the tags to organize, track, or control access for this role. Learn more



You can add 49 more tags.

Figure 7. Add tags

7. Enter a **Role name** to use for this role and (optionally) a description and click the **Create role** button at the bottom.

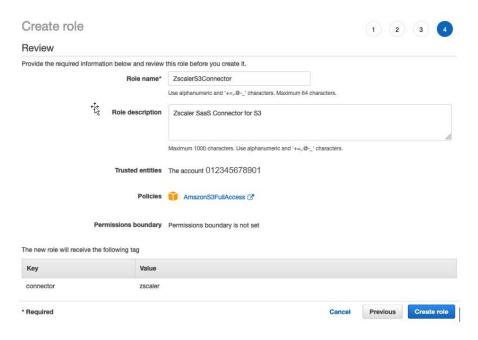


Figure 8. Create role

AWS Configuration (Trust Relationship)

The next steps are also documented in the <u>Adding SaaS Application Tenants</u> help page in the **Edit the Trust Relationship** section.

1. Search for the newly created role by typing "Zscaler" into the search area and click on the role name found.

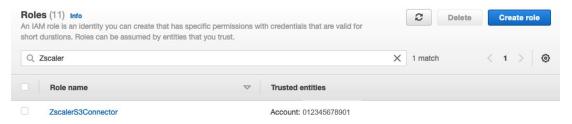


Figure 9. Roles

2. Click on the **Trust relationships** tab and then click on the **Edit trust relationship** button.



Figure 10. Trust relationships

3. In the **Policy Document** text box, replace the default AWS value with the **Zscaler Connector User ARN** copied earlier and click the **Update Trust Policy** button at the bottom.

```
Policy Document
 1- {
 2
      "Version": "2012-10-17",
 3 -
      "Statement": [
 4-
          "Effect": "Allow",
 5
 6+
          "Principal": {
             "AWS": "arn:aws:iam::012345678901:user/ZscalerSaaSConnectorZSNet01"
 7
 8
 9
          "Action": "sts:AssumeRole",
10
          "Condition": {}
11
        }
12
      ]
13 }
```

Figure 11. Policy document

4. At the top of the **Summary** page, copy the **Role ARN** for later use (as the IAM Role ARN).



Figure 12. Role ARN

AWS Configuration (CloudTrail)

The next steps are also documented in the <u>Adding SaaS Application Tenants</u> help page in the **Obtain the CloudTrail Bucket ARN** section.

NOTE

The S3 bucket selected for the trail won't be available to scan in the SaaS Security API Scan Configuration as it is marked *Internal*.

Navigate to Services > CloudTrail and click on Trails in the left navigation pane.



Figure 13. Create a CloudTrail

NOTE

In the Adding SaaS Application Tenants help, **step** *iii* under **section c** shows an existing trail. If you don't already have one you will need to create one. Please refer to *Appendix A: Create Trail* on how to create a trail before proceeding.

Select the trail name to use from the list.

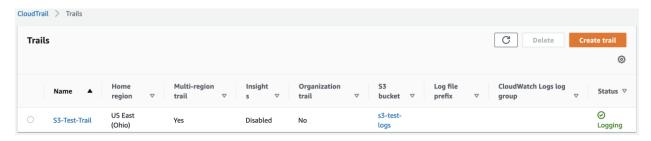


Figure 14. Select CloudTrail name

3. Click on the Trail log location (in blue) in General details.

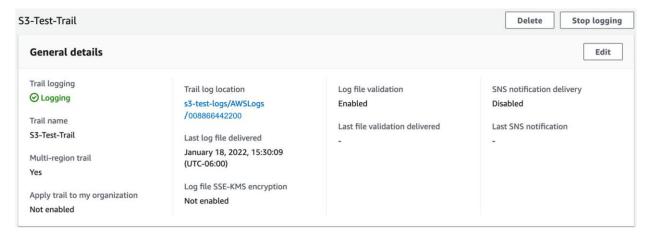


Figure 15. CloudTrail general details

4. In the Objects tab click on the CloudTrail/ name.

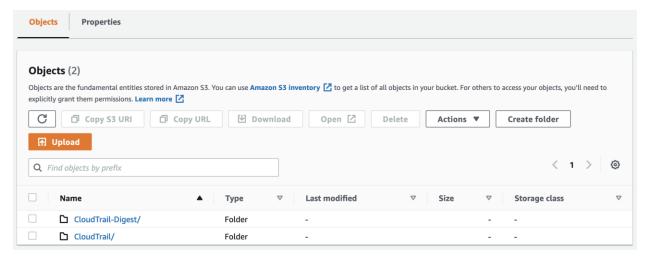


Figure 16. CloudTrail objects

5. Click on the **Properties** tab and copy the **Amazon Resource Name (ARN)** to use later (as the CloudTrail Bucket ARN).



Figure 17. CloudTrail properties

AWS Configuration (Quarantine Bucket)

The next steps are documented in the <u>Adding SaaS Application Tenants</u> help page in the **Create a Quarantine Bucket** section.

NOTE

Step *ii,* **section d** of <u>Adding SaaS Application Tenants</u> details creating a new bucket to use for quarantined files. If you already have a bucket you don't need to create one, but please verify that the settings below match **step** *iii* of the procedure described in the online documentation. A directory called Zscaler_Quarantine will be created in this bucket, but only when malware files are quarantined.

Block all public access: Select.Bucket Versioning: Disable.

• Server-side encryption: Disable.

The S3 bucket selected to be used for the quarantined files won't be available in the SaaS Security API Scan Configuration as it is marked *Internal*.

Navigate to **Services** > **S3** and click on **Buckets** in the left navigation pane. Record the name of the S3 bucket you will use as the Quarantine bucket (either existing or newly created) for use later.

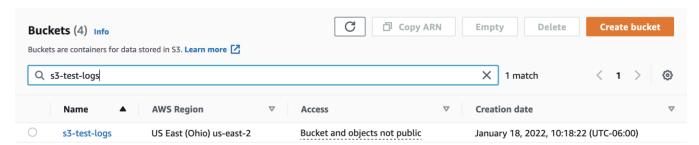


Figure 18. Buckets configuration

Finish Zscaler Configuration

To complete Zscaler configuration:

1. Back in the ZIA Admin Portal on the **Add SaaS Application Tenant** page, enter the details for **Step 4 (Register the SaaS Application)** and click the **Save** button at the bottom.

NOTE

- Your AWS Account ID can be found in the user details in the upper right-hand corner of the AWS portal. Detailed info on obtaining your AWS Account ID can be found here: https://docs.aws.amazon.com/general/latest/gr/acct-identifiers.html
- The **Quarantine Bucket Name** is the one you copied in the previous step.
- The IAM Role ARN is the role ARN you copied earlier (in the Trust Relationship configuration).
- The **CloudTrail Bucket ARN** is Amazon Resource Name (ARN) you copied earlier (in the **CloudTrail** configuration).

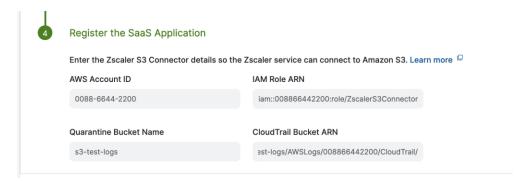


Figure 19. Register the SaaS Application

2. Once saved and activated, the status shows as Validating.

No.	Application	Tenant Name	Status
1	Amazon S3	S3 Tenant	Validating

Figure 20. S3 Tenant validating

3. After a short period, if access was successful, the status shows Active. Proceed with configuring policy.



Figure 21. S3 Tenant active

Appendix A: Create Trail

You can create a trail under **Services > CloudTrail > Trails** by clicking on the **Create trail** button at the top or at the bottom.

- 1. In **Step 1 (Choose trail attributes)** you must enter a name for the trail and either choose an existing S3 bucket to use or create a new one. The **Log file SSE-KMS encryption** option is enabled by default. For the purposes of this guide I have disable it. (If you chose to leave it enabled, please refer to the *Info* link in the UI for more information).
- 2. Click the **Next** button at the bottom to continue to the next step.

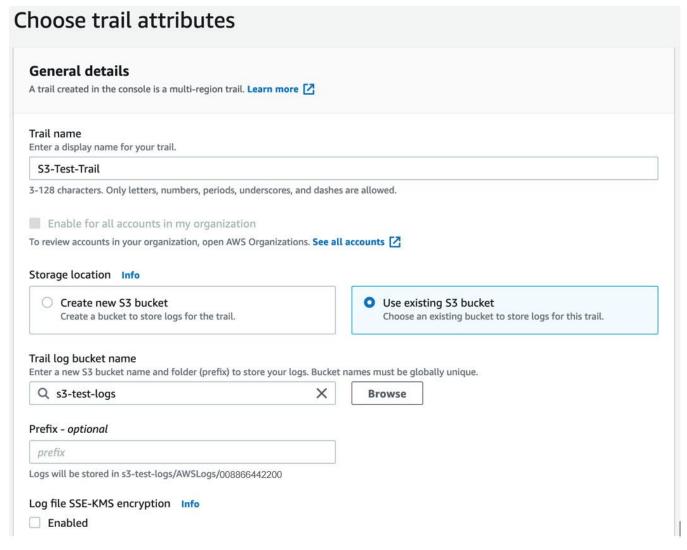


Figure 22. CloudTrail general details

3. In **Step 2**, select the **Events > Event types** you want to log, and the **Data event > Data event type** to use as the source (S3 in this case).

4. Click the **Next** button at the bottom to continue to the next step.

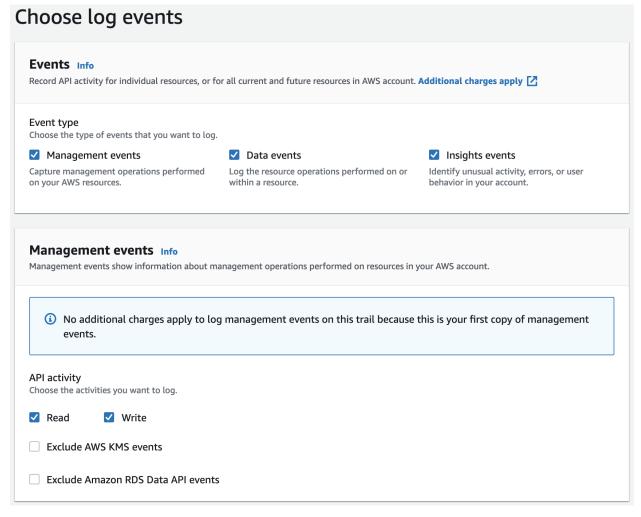


Figure 23. Management events

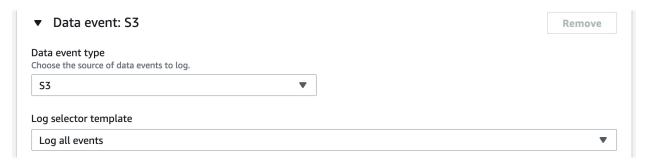


Figure 24. Data event

5. After review in **Step 3 (Review and create)**, click the **Create trail** button at the bottom to continue.

Appendix B: Testing Notes

Configuring the SaaS Security API control policy is documented in the <u>Configuring the SaaS Security API Control Policy</u> help page.

When configuring the **Data Loss Prevention** and the **Malware Detection** policy you need to select **Public Cloud Storage** at the top for each page to create a policy for your S3 SaaS application tenant.

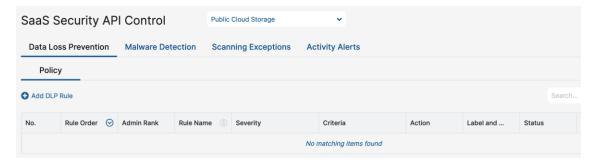


Figure 25. SaaS security API control policy - DLP

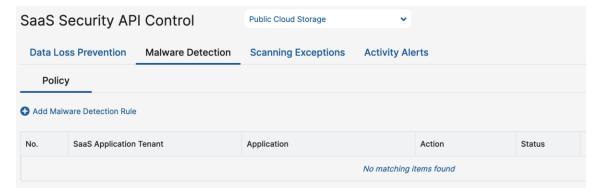


Figure 26. SaaS security API control policy - Malware Detection

As stated in the note on the help page you cannot select specific buckets for each of these policies until you have configured the **Scan Schedule** and selected all possible buckets to include. Then you can go back into the DLP and Malware policies (select **Public Cloud Storage** at the top again) to select specific buckets (if multiple were selected in the Scan Schedule).

Once you save the Scan Configuration, click the **Start** icon to start the process. This changes the **Status** to **Running**.



Figure 27. SaaS configuration

DLP and Malware incident information can be found in the following locations:

- Analytics > SaaS Assets Summary Report (see sample below)
- Analytics > SaaS Security Report > Assets
- Analytics > SaaS Security Insights (see sample below)

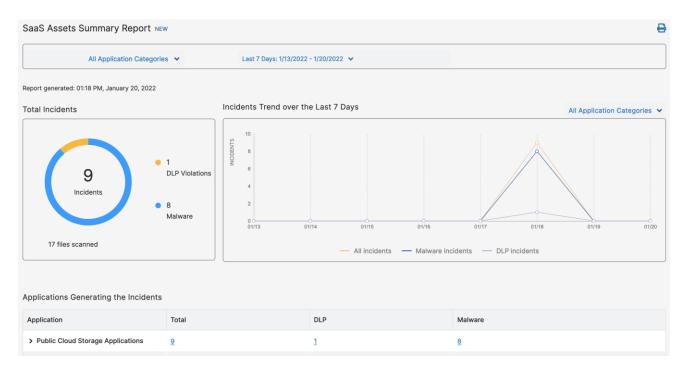


Figure 28. SaaS Assets Summary report

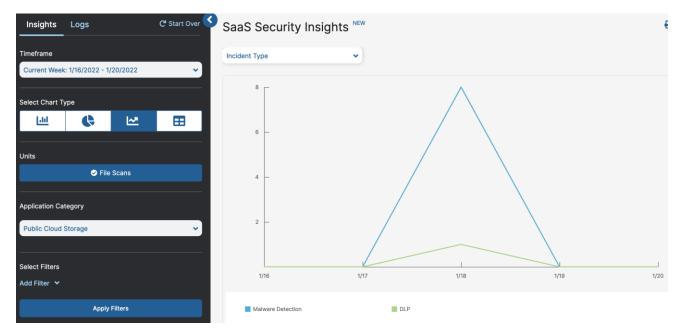


Figure 29. SaaS Security insights

Appendix C: Requesting Zscaler Support

Gather Support Information

You might sometimes need Zscaler support for provisioning certain services, or to help troubleshoot configuration and service issues. Zscaler support is available 24/7 hours a day, year-round. To contact Zscaler support, select **Administration** > **Settings** > and then click **Company profile**.

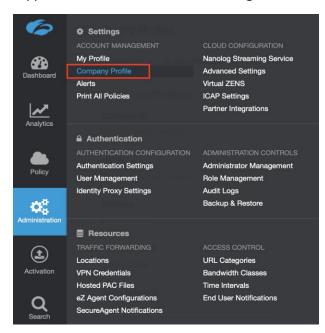


Figure 30. Collecting details to open support case with Zscaler TAC

Save Company ID

Copy the Company ID, as shown below.

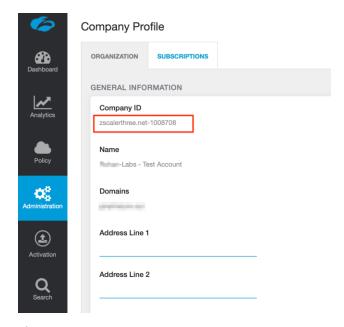


Figure 31. Company ID

Enter Support Section

Now that you have our company ID, you can open a support ticket. Navigate to **Dashboard > Support > Submit a Ticket**.

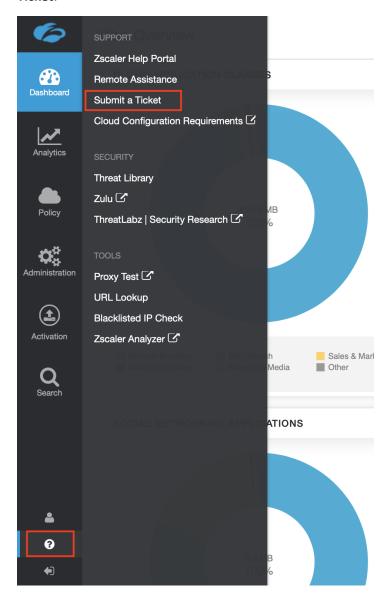


Figure 32. Submit ticket