

# CONSTRUCT GAME SERVICES

View online: <https://www.construct.net/en/game-services/manuals/game-services>

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## Construct Game Services

We offer a range of services to help you build more interactive and better functioning games.

# CREATE A GAME

View online: <https://www.construct.net/en/game-services/manuals/game-services/games/create-game>

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## Create a Game

A game in Construct Services should be thought of as a project that contains resources such as leaderboards.

To create a game, visit your [Construct Service Account](#) page. Once a game is created, you can create services that belong to this game.

# API KEYS

View online: <https://www.construct.net/en/game-services/manuals/game-services/games/api-keys>

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## Game API Keys

Some resources or requests you make on a game may require an API key.

*API keys should NEVER be exposed or distributed to clients.*

## Create API Key

In your [Construct Services Account](#), go to **Your Games**, select the game you wish to create an API key for then select **API Keys** from the left menu.

When you create an API key, the key will be shown to you in full once only. Make sure you record this safely and secretly. Once you continue to the next page, it will not be possible to show you the full key again.

## Suspend Key

When viewing your games API keys, you can suspend a key which will immediately stop the key from working. You can unsuspend suspended keys at any time.

## Delete Key

Deleting a key permanently removes the key from your game and prevents it from being usable again. All API requests coming through using this key will start failing.

If you wish to implement a new API key, we would recommend creating a new key, suspending the old key and once you confirm no more requests are incoming for the old key you can safely delete it.

# CONCEPTS

View online: <https://www.construct.net/en/game-services/manuals/game-services/authentication/concepts>

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## What is the Authentication Service?

When you **create a game**, you will need to register players in the game before allowing them to interact with other services.

When interacting with services such as leaderboards, you will need to pass a **player ID** with your requests to associate your requests with this particular player.

# THE PLAYER OBJECT

View online: <https://www.construct.net/en/game-services/manuals/game-services/authentication/api-objects/player-object>

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## The Player Object

When you retrieve a player, a player object will be returned.

### Example Player Object

```
{  
  "id": "8478281d-88dd-429e-9a96-d08a3f37631c",  
  "username": 4424,  
  "created": "2025-01-28T11:40:46.2"  
}
```

## Object Properties

---

### id guid

A unique record ID for this player.

---

### username string

A username for this player.

---

### created datetime

The date this player was first registered in the game.

# GET A PLAYER

View online: <https://www.construct.net/en/game-services/manuals/game-services/authentication/api-end-points/get-player>

## Get a Player

Returns a player by their username.

### Request URL

All parameters in the request can be sent in the querystring or posted. Make all requests to the following URL:

```
https://auth.construct.net/getplayer.json
```

## Authenticating The Request

No authentication is required for this request type.

## Request Parameters

### gameID guid Required

The ID of the game you are querying

### username string Required

The username of the player you are querying.

### secret string

Optionally pass an API key if you have set your game to require API keys for all auth get requests.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"gameID is required parameter.",
  "shouldRetry":false
}
```

---

**success bool**

If the request was successful or not. For request failures, this will always be false.

---

**errorMessage string**

An short message explaining why the request was denied.

This should probably not be shown to clients.

---

**shouldRetry bool**

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true,
  "player": { ... }
}
```

---

**success bool**

If the request was successful or not. For request successes, this will always be true.

---

**player playerobject**

The returned **player object** for your request.

# REGISTER A PLAYER

View online: <https://www.construct.net/en/game-services/manuals/game-services/authentication/api-end-points/register-player>

## Register a Player

Creates a new player for your game.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://auth.construct.net/registerplayer.json
```

## Authenticating The Request

No authentication is required for this request type.

## Request Parameters

### gameID guid Required

The ID of the game you are registering the player for.

### username string Required

The username to register.

### secret string

Optionally pass an API key if you have set your game to require API keys for all auth post requests.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"gameID is required parameter.",
  "shouldRetry":false,
  "player": { ... }
}
```



---

**success bool**

If the request was successful or not. For request failures, this will always be false.

---

**errorMessage string**

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

**shouldRetry bool**

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

---

**player playerobject**

If the request fails because the username is already registered, the corresponding **player object** is returned here.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true,
  "player": { ... }
}
```

---

**success bool**

If the request was successful or not. For request successes, this will always be true.

---

**player playerobject**

The newly created **player object** for your request.

# GETTING STARTED WITH LEADERBOARDS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/getting-started>

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## Create a Leaderboard

To create a leaderboard, visit your [Construct Services account page](#). [Create a game](#) if you have not already, and from there you can add leaderboards.

## Construct 3 Plugin

It's easy to interact with the leaderboard service directly within Construct 3 using the official [Construct Services Plugin](#).

## Construct Arcade

If you use the [Construct Services Plugin](#) in your Construct 3 project, the plugin has methods to interact with the Construct Arcade Leaderboard. When you upload your game to the [Construct Arcade](#) a leaderboard will be created and configured automatically for you. Please note, for scores to be submitted to the Construct Arcade users must be logged in on Construct.net, guest scores are not permitted.

## .NET Class Library

If you use .NET, you can install the [Construct Services class library](#) to use on your website or application.

The Construct.net website itself uses this library to run the [Construct Arcade](#) leaderboards, so will be well maintained and new features added as and when they are released.

## Installation

Using the [.NET Core command-line interface \(CLI\) tools](#):

```
dotnet add package ConstructServices
```

Using the [NuGet Command Line Interface \(CLI\)](#):

```
nuget install ConstructServices
```

Using the [Package Manager Console](#):

	Install-Package ConstructServices
--	-----------------------------------

# CONSTRUCT LEADERBOARD CAPABILITIES

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/capabilities>

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## Construct Leaderboard Capabilities

The leaderboard service is designed to be scalable and high performance allowing you to rely on it for your leaderboard needs!

Although this service is branded towards games, the leaderboard service is suitable for ranking anything - competitions, sales teams, events, sports or anything else you can think of.

The leaderboard service is not restricted to use within **Construct 3** - it can be used in any game engine.

## Scalable and Performant

The leaderboard service scales effortlessly to millions of scores on single leaderboards with fast performance and high reliability.

## Country Leaderboards Built In

Unlike other leaderboard services, you do not need to create a new leaderboard for each country you want to represent. Each leaderboard is capable of tracking countries automatically. Refer to our [privacy page](#) for details on how IP addresses and countries are calculated and stored.

## Teams

**Add teams** into your leaderboards. Teams have their own customisable ranking system independent of the main leaderboard rankings.

## Highly Customisable

Leaderboards come with a **wide range of settings** allowing you to customise it to your needs.

## Daily, Weekly, Monthly or Annual Leaderboards

Use the `range` parameter on the **get scores request** to return daily, weekly, monthly or yearly leaderboards. Use the `rangeOffset` parameter to retrieve historic records.

You can also filter by country, allowing you for example to show the monthly leaderboard for the US.

## Score History

Track the players score over time. You can [retrieve the score history](#) of a score up to 1 year in the past.

## Compare Rank

The get score request has a `compareRanks` parameter allowing you to compare the players current rank to yesterdays rank, or any date within the last year.

## Shadow Bans

If bad actors submit faked scores into your leaderboard, your able to [shadow ban](#) them based on their player ID (if one exists) and/or their IP address.

If a players score is shadow banned, it will show in the leaderboard for them - but no one else.

## Auto Score Rejection

You know your game better than anyone else. You can set [score thresholds](#) to automatically reject scores that fall out of bounds. You're also able to customise how rejected scores are handled.

## Store Additional Values

Each score record has the ability to record up to 3 different additional values. These are great for displaying contextual information with scores in the leaderboard - for example in a racing game you might decide to record how many gold coins were collected on the way or how many jumps you made!

## Score Adjustment

You're able to [adjust existing scores](#) in the leaderboard to allow for cumulative scoring over the lifetime of the player.

## Tier System

Add players into [tiers](#) based on customisable rulesets.

## Many Views

The leaderboards API has many end points allowing you to:

- [Get newest scores](#)
- [Get a players scores](#)
- [Get neighbour scores](#)

## And Much More

Explore the documentation to see what the leaderboard is capable of.

# PRIVACY

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/privacy>

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## Privacy of Submitted Data

When a score is submitted to the leaderboard service, the IP addresses of the score submissions are hashed with a salt before being stored in the leaderboard database. These IP addresses are **not** stored anywhere else in any other format, nor are they queried to any third party services.

## Geo Location

When the score is submitted, before hashing we query a local database to ascertain the likely country the IP address originates from. The country name ascertained is stored in the score record.

The country is not in any way an accurate measurement of the users location. If for example the user is behind a VPN, the returned country will be completely inaccurate.

If you do not want to show country data in your leaderboard, there is a setting to disable it.

# SHADOW BANNING SCORES

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/shadow-banned-scores>

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## Shadow Banning Scores

There are two ways to shadow ban a score, either by their player ID or by their IP address.

When running a leaderboard service, you may find players cheat in your game or submit fake scores that pollute your leaderboard. By shadow banning the scores, the scores remain visible for the shadow banned players but do not appear for anyone else. It is an effective way to combat cheaters.

From your [Game Services account pages](#) you can shadow ban and delete scores from your leaderboard. You can also shadow ban players and IP's via our [shadow ban end point](#).



# ONE SCORE PER PLAYER

**View online:** <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/settings/one-score-per-player>

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If enabled, each player in the leaderboard will only have one score record representing their best score.

*Once you set this parameter when creating a leaderboard, it will not be possible to change it at a later date.*

If set, a player identifier must be sent with all scores.

This must be set if you wish to enable [score history tracking](#) and [teams](#).

# SCORE ADJUSTMENT

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/settings/score-adjustment>

---

## Leaderboard Score Adjustment

If you enabled score adjustments on your leaderboard, then the [adjust score API end point](#) will be enabled for your leaderboard.

Adjusting scores is a useful function for scores that can be cumulatively added to for the lifetime of the player across all the players sessions.

# SCORE ORDERING

**View online:** <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/settings/score-ordering>

---

## Leaderboard Score Ordering

This simply describes how scores in a leaderboard are ordered. There are only two ways to order scores, bigger is better and smaller is better.

If you have a racing game where the fastest lap times are better, you would want to set the leaderboard score order to smaller is better.

# COUNTRY RANKS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/settings/country-rankings>

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## Country Ranks

If you enable country rank tracking in your leaderboard, separate ranks are maintained on a country basis for scores in your leaderboard. This means you do not need a separate leaderboard for each country.

It's important to review the page on [leaderboard privacy](#) to understand how IP addresses and countries are used and stored in this service.

If you track country ranks, then you can pass a `country` parameter into various end points that allow it to return results filtered by country. For example, posting `us` into the [get scores end point](#) will return all scores where the country is US.

# SCORE HISTORY

**View online:** <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/settings/score-history>

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Enabling score history for your leaderboard tracks the players score and rank for up to 365 days.

Enabling score history allows you to compare the rank and best score of a player over time.

# LEADERBOARD CULTURE

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/settings/culture>

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## Leaderboard Culture

Different cultures render numbers slightly differently - the thousands separator may not be a comma for example.

When making an API request, you can provide a culture code to use to format returned numbers. If none is provided, the leaderboards default culture code will be used.

It is recommended to pass the users culture code where possible. In Javascript, you can access this using the following code:

```
var cultureCode = navigator.language; //pt-BR
```

# SCORE FORMATTING

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/settings/score-formatting>

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All scores are submitted as int64's. There are three types of score formats:

- Numeric
- Time
- Currency

Each score format has formatting options allowing you to customise how the formatted score is returned in the responses.

## Numeric Score Format

---

### Currency Symbol string

Appended in front of the score value, maximum length of 3 characters. With this value set to £, a score of 12 will render as "£12".

---

### Suffix string

Appended to the end of scores, maximum length of 32 characters. With this value set to Grog Tokens, a score of 12 will render as "12 Grog Tokens".

---

### Subunits int

The number of subunits this currency has. Most currencies have 100 subunits. Setting this to 100 and rendering a score of 500 will show as 5.00 - setting this to 0 and rendering a score of 500 will show as 500

---

### Hide Subunits if Zero bool

If set, a score of \$10.00 will render as \$10

---

### Hide thousands separator bool

If set, a score of \$1,000,000 will render as \$1000000/dd]

## Time Score Format

The submitted score value is treated as milliseconds.

---

### **Friendly Mode bool**

Renders a time of 1:30:29 as "1 hour, 30 minutes & 29 seconds".  
If enabled, all other time score format options are disabled.

---

### **Score Accuracy**

The accuracy to render times to. If scores never reach over 60 minutes, you can set this value to minutes.

---

### **Time Part Separator string**

The symbol between parts of a time. Defaults to : - 1:02:32

---

### **Hide Milliseconds bool**

Set if millisecond accuracy is not required to be rendered on scores.

---

## **Currency Score Format**

The submitted score value is treated as the smallest unit of the currency. For example, if you show your scores as USD a submitted score of 123 would represent \$1.23, or 123 cents.

---

### **Currency Symbol string**

Appended in front of the score value, maximum length of 3 characters. With this value set to £, a score of 12 will render as "£12".

---

### **Suffix string**

Appended to the end of scores, maximum length of 32 characters. With this value set to Grog Tokens, a score of 12 will render as "12 Grog Tokens".

---

### **Subunits int**

The number of subunits this currency has. Most currencies have 100 subunits. Setting this to 100 and rendering a score of 500 will show as 5.00 - setting this to 0 and rendering a score of 500 will show as 500

---

### **Hide Subunits if Zero bool**

If set, a score of \$10.00 will render as \$10

---

### **Hide Thousands Separator bool**

If set, a score of \$1,000,000 will render as \$1000000

---



## Custom Format

You do not need to use these score formatters. If building your own solution the [score object](#) always returns the raw score value which you can manipulate to display however you wish.

# LEADERBOARD RANK TYPE

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/settings/ranking-type>

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## Leaderboard Rank Types

There are three different ways to determine how ranks are displayed in your leaderboard.

### Rank

This type will assign duplicate ranks if scores are equal. Where duplicate ranks exist, the next ranks are skipped. You can read more about this ranking method [here](#).

#### Example Using Rank Type

Rank	Player	Score
1st	Tom	3,000
1st	Ash	3,000
3rd	Gordon	2,900
4rd	Piggy	2,500

### Dense Rank

This type will assign duplicate ranks if scores are equal. Where duplicate ranks exist, the next ranks are **not** skipped. You can read more about this ranking method [here](#).

#### Example Using Dense Rank Type

Rank	Player	Score
1st	Tom	3,000
1st	Ash	3,000
2nd	Gordon	2,900
3rd	Piggy	2,500

### Row Number

This assigns a unique rank for each score. You can read more about this ranking method [here](#).

#### Example Using Row Number Type

Rank	Player	Score
1st	Tom	3,000
2nd	Ash	3,000
3rd	Gordon	2,900
4th	Piggy	2,500

# LEADERBOARD TEAM SETTINGS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/settings/teams>

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## Leaderboard Team Settings

---

### Allow Teams

Enable or disable team functionality on this leaderboard.

---

### Team Ranking Mode

If teams are enabled, teams will be ranked by this method. **Total scores** ranks teams with the most scores submitted highest. **Average score** ranks team with the highest average score highest. **Top score** ranks teams by the player in the team with the highest score.

# LEADERBOARD SCORE REJECTION SETTINGS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/settings/score-rejection>

---

## Leaderboard Score Rejection Settings

---

### Reject Scores Under int64

All scores that are posted that are under this score will be rejected by the leaderboard. This value is optional.

---

### Reject Scores Over int64

All scores that are posted that are over this score will be rejected by the leaderboard. This value is optional.

---

### Score Rejection Mode

If set to **Shadow Ban**, players who submit scores that fall outside the permitted range will automatically be **shadow banned**. **Quiet fail** will cause the submitted score to appear as if it was accepted by the leaderboard, but it will not be inserted into the leaderboard. **Noisy Fail** will throw an error message if the score is outside the permitted range.

---

### Reject Scores On Adjustment

If set, when scores are **adjusted** if the updated score falls outside of the acceptable range the score will then be rejected using the set rejection mode.

# LEADERBOARD SECURITY SETTINGS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/settings/security-settings>

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## Leaderboard Security Settings

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### Require API Key For All POST Requests

Should all leaderboard POST requests require an API key. If this is enabled, all POST requests that don't send an API key will fail.

---

### Require API Key For All GET Requests

Should all leaderboard GET requests require an API key. If this is enabled, all GET requests that don't send an API key will fail.

This setting is for advanced users only and you should only enable this setting if you're fully implementing the leaderboard service on your own custom back end.

# TIERS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/tiers>

---

## Leaderboard Tiers

Leaderboard tiers are an optional feature for leaderboards that allow you to group players. It is not currently possible to modify tiers through the API, it must be done through your account on Construct.net.

An example use case would be to have a **Diamond Tier** for the top 5% of scores, a **Gold Tier** for the top 15% of scores etc.

If a score belongs to a tier, it will be returned in some API objects such as the **score object**.

## Creating a Tier

---

### id string Required

The unique ID for this tier. This should not be displayed to players but is returned in API responses.

---

### name string Required

A name of the tier which is displayed to players.

---

### condition Required

The condition to specify if players belong into this tier or not.

## Tier Conditions

Tiers can have one condition to specify if a score belongs in that particular tier:

---

### Rank is exactly equal to

Matches if the players rank exactly equals the specified value.

---

### Rank is in top N scores

If a value of 100 is provided, matches if the scores rank is  $\leq 100$

---

### Rank is in top N% of scores

If 25 is provided, matches if the scores rank is in the top 25% of scores on the leaderboard.

## Matching Scores to Tiers

When you have multiple tiers a score is iterated through all tiers and returns the tier with the first matching condition.

`Rank exactly equal to` conditions are tested first, then `Rank is in top N scores` are tested and finally `Rank is in top N% of scores` are tested.

# LEADERBOARD TEAMS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/teams>

---

## Leaderboard Teams

Leaderboard teams are an optional feature for leaderboards that allow you to assign players into teams. Teams have their own rank in your leaderboard by the ranking method specified in your [leaderboard settings](#).

Using the [get leaderboard teams](#) API end point you can get a paginated list of all teams by rank order for your leaderboard.

You can create, rename and delete teams as well as assign players to teams, remove players from teams and delete teams using the [relevant API end points](#).



# DELETING A LEADERBOARD

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/delete-leaderboard>

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## Deleting a Leaderboard

Deleting leaderboards must be done through your [Game Services account](#) pages.

When leaderboards are deleted, they are placed into a deletion queue and the deletion will progress in stages. It is only possible to cancel a deletion if the deletion has not yet started. Once deletion has started, it will not be possible to cancel the deletion.

# THE PAGINATION OBJECT

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/objects/pagination>

## The Pagination Object

When a response contains or could contain multiple records, a pagination object is returned.

## Example Pagination Object

```
{
  "requestedPage": 5,
  "formattedRequestedPage": "5",
  "totalPages": 1003,
  "formattedTotalPages": "1,003",
  "recordsPerPage": 2,
  "formattedRecordsPerPage": "2",
  "totalRecords": 2005,
  "formattedTotalRecords": "2,005",
  "prevPage": 4,
  "formattedPrevPage": "4"
  "nextPage": 6,
  "formattedNextPage": "6"
}
```

## Object Properties

### **requestedPage** int32

The page of results returned in this result set.

### **formattedRequestedPage** string

The page of results returned in this result set rendered using the requested locale.

### **totalPages** int32

The total pages of results returned in this result set.

### **formattedTotalPages** string

The total pages of results in this result set rendered using the requested locale.

---

**recordsPerPage int32**

How many records per page are being returned in this result set.

---

**formattedRecordsPerPage string**

How many records per page are being returned in this result set rendered using the requested locale.

---

**totalRecords int32**

Total number of records in this result set.

---

**formattedTotalRecords string**

Total number of records in this result set rendered using the requested locale.

---

**prevPage int32**

The previous page number. Will not be returned in the response if this is the first page in this result set.

---

**formattedPrevPage string**

The previous page number rendered using the requested locale.  
Will not be returned in the response if this is the first page in this result set.

---

**nextPage int32**

The next page number. Will not be returned in the response if this is the last page in this result set.

---

**formattedNextPage string**

The next page number rendered using the requested locale.  
Will not be returned in the response if this is the last page in this result set.

# THE SCORE OBJECT

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/objects/score-object>

## The Score Object

When you retrieve a score or list of scores, a score object will be returned.

## Example Score Object

```
{
  "scoreID": "8478281d-88dd-429e-9a96-d08a3f37631c",
  "score": 4424,
  "formattedScore": "4,424",
  "rank": 15,
  "ordinal": "th",
  "formattedRank": "15th",
  "country": "NL",
  "countryRank": 3,
  "countryOrdinal": "rd",
  "formattedCountryRank": "3rd",
  "date": "2025-01-28T11:40:46.2",
  "player": { ... },
  "updates": 0,
  "compareScore": { ... },
  "teamID": "43aa1c63-28e2-464e-80f8-b1c2d8ae9696",
  "teamName": "Blue Team",
  "tier": { ... },
  "optionalValue1": 23
}
```

## Object Properties

### scoreID guid

A unique record ID for this score.

### score int64

The stored score value.

### formattedScore string

The score formatted under the score format specifications for this leaderboard, rendered using the requested locale.

---

**rank int32**

The global rank of this score

---

**ordinal string**

The ordinal for the global rank of this score.

---

**formattedRank string**

The global rank of this score rendered using the requested locale.

---

**country string**

The ISO 3166-1 alpha-2 country code of the IP address that originally posted the score. Will return as **NULL** if the country could not be ascertained.

---

**countryRank int32**

The country rank of this score. This property will not be shown if country scores are disabled in the leaderboard settings.

---

**countryOrdinal string**

The ordinal for the global country rank of this score. This property will not be shown if country scores are disabled in the leaderboard settings.

---

**formattedCountryRank string**

The global country rank of this score rendered using the requested locale. This property will not be shown if country scores are disabled in the leaderboard settings.

---

**date datetime**

The date this score was originally posted.

---

**player playerobject**

The **player** this score belongs to.

---

**updates int16**

How many times this score has been adjusted.

---

**compareScore scorehistoryobject**

If your get score request supports rank comparison and the compareRanks parameter is specified, a **score history object** for this score is returned. If there is no relevant history record for the specified time period, this property will not exist for this specific score in the response.

---

**teamID guid**

The unique ID of the team this player belongs to if they have been assigned to a team.

---

**teamName string**

The name of the team this player belongs to if they have been assigned to a team.

---

**tier tierobject**

If the player this score belongs to has been assigned to a team, the relevant **team object** will be returned with this score.

---

**optionalValue 1-3 short**

Optional values stored with the score record. They can be used to track information about a score, for example in a racing game you may wish to store how many secret coins they managed to collect.

# THE LEADERBOARD OBJECT

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/objects/leaderboard>

## The Leaderboard Object

When you post or adjust a score, the returned leaderboard object will give more information that may be useful to show to the end user.

## Example Leaderboard Object

```
{
  "globalScores": 1124005,
  "formattedGlobalScores": "1,124,005",
  "countryScores": 40104,
  "formattedCountryScores": "40,104"
}
```

## Object Properties

### **globalScores int32**

The total number of scores in the leaderboard.

### **formattedGlobalScores string**

The total number of scores in the leaderboard rendered using the requested locale.

### **countryScores int32**

The total number of scores in the leaderboard with the same country ID. This property will not be shown if country scores are disabled in the leaderboard settings.

### **formattedCountryScores string**

The total number of scores in the leaderboard with the same country ID rendered using the requested locale. This property will not be shown if country scores are disabled in the leaderboard settings.

# THE PLAYER OBJECT

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/objects/player-object>

---

## The Player Object

```
{  
  "id": "008962d7-d38e-44eb-8fb0-9e16886f3e27",  
  "username": "Tom"  
}
```

## Object Properties

---

### **id string**

A unique ID for this player.

---

### **name string**

The username for this player.



# THE SCORE HISTORY OBJECT

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/objects/score-history>

## The Score History Object

When you retrieve the history for a score, it returns an array of score history objects. These are very similar to the score object, but contain slightly less information.

Score history objects represent a snapshot in time of the scores rankings and score value.

## Example Score History Object

```
{
  "date": "2025-01-28T11:40:46.2",
  "score": 4424,
  "formattedScore": "4,424",
  "rank": 15,
  "ordinal": "th",
  "formattedRank": "15th",
  "countryRank": 3,
  "countryOrdinal": "rd",
  "formattedCountryRank": "3rd"
}
```

## Object Properties

### **date** datetime

The date of the rest of the values

### **score** int64

The score value at this date.

### **formattedScore** string

The score formatted under the score format specifications for this leaderboard, rendered using the requested locale.

### **rank** int32

The global rank of this score at this date

---

**ordinal string**

The ordinal for the global rank of this score.

---

**formattedRank string**

The global rank of this score rendered using the requested locale.

---

**countryRank int32**

The country rank of this score at this date. This property will not be shown if country scores are disabled in the leaderboard settings.

---

**countryOrdinal string**

The ordinal for the global country rank of this score. This property will not be shown if country scores are disabled in the leaderboard settings.

---

**formattedCountryRank string**

The global country rank of this score rendered using the requested locale. This property will not be shown if country scores are disabled in the leaderboard settings.

# THE TEAM OBJECT

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/objects/team-object>

## The Team Object

If teams are set up on your leaderboard some requests will return information about teams.

## Example Team Object

```
{
  "teamID": "f8a013a9-1f8c-438d-bef3-4668d52b0b81",
  "dateCreated": "2025-04-02T09:09:50.657",
  "name": "Red Team",
  "rank": 2,
  "ordinal": "nd",
  "formattedRank": "2nd",
  "players": 4,
  "formattedPlayers": "4",
  "scores": 4,
  "formattedScores": "4",
  "totalScoreValues": 141116,
  "formattedTotalScoreValues": "02:21:0116",
  "averageScore": 35279,
  "formattedAverageScore": "00:35:0279",
  "bestScore": 35279,
  "formattedBestScore": "00:35:0279"
}
```

## Object Properties

### **teamID guid**

The ID of the team.

### **dateCreated datetime**

The date the team was created.

### **name string**

The name of the team.

---

**rank int32**

The rank of this team.

---

**ordinal string**

The ordinal for the rank of this team.

---

**formattedRank string**

The rank of this score rendered using the requested locale.

---

**players int32**

The number of players assigned to this team.

---

**formattedPlayers string**

The number of players assigned to this team rendered using the requested locale.

---

**scores int32**

The number of scores posted in this team.

---

**formattedScores string**

The number of scores posted in this team rendered using the requested locale.

---

**totalScoreValues decimal**

The sum value of all scores posted in this team.

---

**formattedTotalScoreValues string**

The sum value of all scores posted in this team formatted under the score format specifications for this leaderboard, rendered using the requested locale.

---

**averageScore int64**

The average of all the scores posted in this team.

---

**formattedAverageScore string**

The average of all the scores posted in this team formatted under the score format specifications for this leaderboard, rendered using the requested locale.

---

**bestScore int64**

The best score posted in this team.

---

**formattedBestScore string**

The best score posted in this team formatted under the score format specifications for this leaderboard, rendered using the requested locale.

# THE TIER OBJECT

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/objects/tier-object>

---

## The Tier Object

If **tiers** are set up on the leaderboard, scores will return a matching tier indicating what current tier this score belongs to.

## Example Tier Object

```
{  
  "id": "diamond",  
  "name": "Diamond Tier"  
}
```

## Object Properties

---

### **id string**

A unique ID for this tier for your leaderboard.

---

### **name string**

The name of the tier that can be shown to players.

# THE SHADOW BAN OBJECT

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/objects/shadow-ban-object>

## The Shadow Ban Object

Returned when requesting lists of shadow bans for a specified leaderboard. Depending on if you query player identifier shadow bans or IP address shadow bans will determine the properties of this object that are returned.

### Player ID Shadow Ban Object

When querying player ID shadow bans, the following shadow ban object is returned.

```
{
  "dateBanned": "2025-04-23T00:00:00",
  "player": { ... }
}
```

### Player ID Shadow Ban Properties

#### **dateBanned** datetime

The date the ban was created.

#### **player** playerobject

The **player** that is shadow banned.

### IP Shadow Ban Object

When querying IP shadow bans, the following shadow ban object is returned.

```
{
  "dateBanned": "2025-04-23T00:00:00",
  "ipHash": -23471271,
  "country": "US"
}
```

### IP Shadow Ban Properties

#### **dateBanned** datetime

The date the ban was created.

---

**ipHash int**

The hashed IP address of the IP that is shadow banned.

---

**country string**

If the country of the underlying IP is known, the ISO 3166-1 alpha-2 country code for the IP will be shown in this property.



# POST A NEW SCORE

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/post-new-score>

---

## Post a new score

Records a new score record into a leaderboard.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/postscore.json
```

## Authenticating The Request

Either **secret** or **hash** must be passed in this request, depending on how the game this leaderboard belongs to is set up.

---

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the post score request will be rejected.

Secret keys must never be exposed to clients.

---

### hash string

If the game the leaderboard is associated with does not have a secret key, then a hash for the post score request must be provided.

A hash is generated as the SHA256 of a string of values in the request:

```
var key = (leaderboardID + "." + score + "." + unixTimestamp + "." + playerID).Normalize();  
return SHA256(key);
```

*Player identifier is an optional value, this should be an empty string if not used but the dot after the timestamp is still required.*

Authenticating post score requests with a hash makes it harder for casual request interception and manipulation by players.

## Request Parameters

---

**leaderboardID guid Required**

The ID of the leaderboard you want to post this score to

---

**score int64 Required**

The score you're posting. The maximum value of a score is **9223372036854775807** and the minimum value is **-9223372036854775808**.

---

**timestamp int64 Required**

The unix timestamp of the score. Adding historic scores or scores for future dates is not supported. This timestamp should be the date the request to the post score API was generated. This value is required as it is used in the request verification.

---

**requesterIP string**

If a secret key is being used, this value is required and represents the IP address of the client the score belongs to.

---

**playerID Guid**

The ID of the player this score is for. Refer to the [authentication service](#) for how to retrieve this ID.

---

**culture string**

Optionally specify the locale to render returned values with. If no value or an invalid value is provided, the leaderboard's default culture code is used.

---

**opt1 short**

An optional value to store with this score record.

---

**opt2 short**

An optional value to store with this score record.

---

**opt3 short**

An optional value to store with this score record.

---

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{  
  "success":false,
```

```

"errorMessage": "timestamp is required parameter.",
"shouldRetry": false
}

```

### success bool

If the request was successful or not. For request failures, this will always be false.

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```

{
  "success": true,
  "formattingCulture": "en-US",
  "score": { ... },
  "leaderboard": { ... },
  "personalBest": true
}

```

### success bool

If the request was successful or not. For request successes, this will always be true.

### formattingCulture string

The locale used to render various formatted values in the response. This will fall back to the leaderboard's default locale if no culture value is posted or the posted culture value is invalid.

### score score

A [score object](#) containing data about the new score.

---

**leaderboard leaderboard**

A **leaderboard object** containing useful contextual information.

---

**personalBest bool**

Is the adjusted or newly posted score this players personal best? This property does not appear if no player ID is saved with the score.

# ADJUST EXISTING SCORE

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/adjust-score>

## Adjust existing score

Adjusts the score value of an existing score in the leaderboard. You can pass a positive value to increase the value of the score, or a negative value to decrease it.

A leaderboard must permit score adjustments in it's settings otherwise calls to adjust scores will fail.

Adjusting a score will not update the date of the score, but will increment it's **updates** counter.

## Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/adjustscore.json
```

## Authenticating The Request

Either **secret** or **hash** must be passed in this request, depending on how the game this leaderboard belongs to is set up.

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the increment score request will be rejected.

Secret keys must never be exposed to clients.

### hash string

If the game the leaderboard is associated with does not have a secret key, then a hash for the increment score request must be provided.

A hash is generated as the SHA256 of a string of values in the request:

```
var key = (leaderboardID + "." + adjustment + "." + scoreRecordID + "." + unixTimestamp + ".");  
return SHA256(key);
```

Authenticating increment score requests with a hash makes it harder for casual request interception and manipulation by players.

## Request Parameters

---

**leaderboardID guid Required**

The ID of the leaderboard you want to increment the score of

---

**adjustment int64 Required**

The value to modify the existing score by. The maximum value of a score is **9223372036854775807** and the minimum value is **-9223372036854775808**. If an adjustment results in a value that will exceed these ranges an error will be returned.

---

**timestamp int64 Required**

The unix timestamp of the date of the request. This value is required as it is used in the request verification.

---

**scoreID guid**

The ID of the score record you wish to adjust the score for.  
Either scoreID or playerID must be specified.

---

**playerID Guid**

The ID of the player to adjust the score for. Either playerID or scoreID must be specified. If there are multiple scores for the passed playerID then this players best score will be adjusted. Refer to the [authentication service](#) for how to retrieve this ID.

---

**culture string**

Optionally specify the locale to render returned values with. If no value or an invalid value is provided, the leaderboard's default culture code is used.

---

**opt1 short**

Adjust the optional value 1 value by this amount. If the existing value is not set, will set the value of the score record to this value.

---

**opt2 short**

Adjust the optional value 2 value by this amount. If the existing value is not set, will set the value of the score record to this value.

---

**opt3 short**

Adjust the optional value 3 value by this amount. If the existing value is not set, will set the value of the score record to this value.

---

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"Either hash or secret must be posted.",
  "shouldRetry":false
}
```

---

### success bool

If the request was successful or not. For request failures, this will always be false.

---

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true,
  "formattingCulture": "en-US",
  "score": { ... },
  "leaderboard": { ... },
  "personalBest": true
}
```

---

### success bool

If the request was successful or not. For request successes, this will always be true.

---

### formattingCulture string

The locale used to render various formatted values in the response. This will fall back to the leaderboard's default locale if no culture value is posted or the posted culture value is invalid.

---

**score score**

A **score object** containing data about the updated score.

---

**leaderboard leaderboard**

A **leaderboard object** containing useful contextual information.

---

**personalBest bool**

Is the adjusted or newly posted score this players personal best? This property does not appear if no player ID is saved with the score.



# GET SCORES

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/get-scores>

---

## Get newest posted scores

Return paginated results of scores. Various filters are supported allowing you to:

- Return the all time scores for a leaderboard
- Return country specific all time scores for a leaderboard
- Return daily, weekly, monthly or yearly scores for a leaderboard for all countries or specific countries

## Request URL

All parameters in the request can be sent in the querystring or posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/getscores.json
```

## Authenticating The Request

No authentication is required for this request type.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you are querying

---

### perPage int32

How many scores to display on each page of results, from 1 to 500. If an invalid value is provided the default value of 20 is used.

---

### page int32

What page of results to return. If no value is provided, will default to the first page. If the value exceeds the total pages, the last page will be returned.

---

### country string

The ISO 3166-1 alpha-2 country code you wish to filter results by. If you wish to retrieve results with no known country you can pass the value `xx`.

---

### range string

Either `Daily`, `Weekly`, `Monthly` or `Yearly` can be provided. If specified, will filter the results by this time period. Weekly leaderboards run Monday to Sunday.

---

### rangeOffset int32

If **range** is specified, you can offset the returned results by this amount. For example, a range of **daily** with an offset of 1 will return yesterdays daily leaderboard. A range of **monthly** with a range of 5 will return the monthly leaderboard from 5 months ago.

---

### compareRanks int

Optionally specify this value for leaderboards that support [score history](#). This value represents how many days ago you wish to compare returned scores in this query to. For example, if 10 is specified then the relevant [score history object](#) will be returned in the score object representing what this score was 10 days ago.

---

### requesterPlayerID Guid

If the player ID is known, pass their player ID here. If any of this players scores are shadow banned they will show in the response. Refer to the [authentication service](#) for how to retrieve this ID.

---

### requesterIP string

If not passed, the IP address of the request origin will be used. You should pass the visitors IP address with this parameter if you're not querying the end point through a client side implementation, otherwise this IP's shadow banned scores will not show.

---

### culture string

Optionally specify the locale to render returned values with. If no value or an invalid value is provided, the leaderboard's default culture code is used.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"leaderBoardID is required parameter.",
}
```

```
"shouldRetry": false
}
```

### success bool

If the request was successful or not. For request failures, this will always be false.

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true,
  "pagination": { ... },
  "formattingCulture": "en-US",
  "scores": [...],
}
```

### success bool

If the request was successful or not. For request successes, this will always be true.

### pagination pagination

A [pagination object](#) that helps you browse through pages of results.

### formattingCulture string

The locale used to render various formatted values in the response. This will fall back to the leaderboard's default locale if no culture value is posted or the posted culture value is invalid.

### scores array

An array of [score objects](#) for this page of results.

# GET NEWEST SCORES

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/get-newest-scores>

## Get newest posted scores

Returns scores in the leaderboard, newest first.

### Request URL

All parameters in the request can be sent in the querystring or posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/getnewestscores.json
```

## Authenticating The Request

No authentication is required for this request type.

## Request Parameters

### leaderboardID guid Required

The ID of the leaderboard you are querying

### perPage int32

How many scores to display on each page of results, from 1 to 500. If an invalid value is provided the default value of 20 is used.

### page int32

What page of results to return. If no value is provided, will default to the first page. If the value exceeds the total pages, the last page will be returned.

### country string

The ISO 3166-1 alpha-2 country code you wish to filter results by. If you wish to retrieve results with no known country you can pass the value `xx`.

### requesterPlayerID Guid

If the player ID is known, pass their player ID here. If any of this players scores are shadow banned they will show in the response. Refer to the [authentication service](#) for how to retrieve

this ID.

---

### requesterIP string

If not passed, the IP address of the request origin will be used. You should pass the visitors IP address with this parameter if you're not querying the end point through a client side implementation, otherwise this IP's shadow banned scores will not show.

---

### culture string

Optionally specify the locale to render returned values with. If no value or an invalid value is provided, the leaderboard's default culture code is used.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"leaderBoardID is required parameter.",
  "shouldRetry":false
}
```

---

### success bool

If the request was successful or not. For request failures, this will always be false.

---

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true,
  "pagination": { ... },
}
```

```
"formattingCulture": "en-US",  
"scores": [...],  
}
```

---

### success bool

If the request was successful or not. For request successes, this will always be true.

---

### pagination pagination

A [pagination object](#) that helps you browse through pages of results.

---

### formattingCulture string

The locale used to render various formatted values in the response. This will fall back to the leaderboard's default locale if no culture value is posted or the posted culture value is invalid.

---

### scores array

An array of [score objects](#) for this page of results.

# GET PLAYER SCORES

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/get-player-scores>

## Get player scores

Given a player ID, return all this players scores in the leaderboard, best first. Where a leaderboard only supports 1 score per player ID, only one result can ever be returned.

### Request URL

All parameters in the request can be sent in the querystring or posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/getplayerscores.json
```

## Authenticating The Request

No authentication is required for this request type.

## Request Parameters

### leaderboardID guid Required

The ID of the leaderboard you are querying

### playerID Guid Required

The player ID to return scores for. Refer to the [authentication service](#) for how to retrieve this ID.

### perPage int32

How many scores to display on each page of results, from 1 to 500. If an invalid value is provided the default value of 20 is used.

### page int32

What page of results to return. If no value is provided, will default to the first page. If the value exceeds the total pages, the last page will be returned.

### culture string



Optionally specify the locale to render returned values with. If no value or an invalid value is provided, the leaderboard's default culture code is used.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"No playerId value was sent",
  "shouldRetry":false
}
```

---

### success bool

If the request was successful or not. For request failures, this will always be false.

---

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true,
  "pagination": { ... },
  "formattingCulture": "en-US",
  "scores": [...],
}
```

---

### success bool

If the request was successful or not. For request successes, this will always be true.

---

### pagination pagination

A **pagination object** that helps you browse through pages of results.

---

### **formattingCulture string**

The locale used to render various formatted values in the response. This will fall back to the leaderboard's default locale if no culture value is posted or the posted culture value is invalid.

---

### **scores array**

An array of **score objects** for this page of results.

# GET SCORE NEIGHBOURS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/get-score-neighbours>

---

## Get neighbour scores

Given a player ID or a score record ID, get the surrounding scores in the leaderboard.

### Request URL

All parameters in the request can be sent in the querystring or posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/getscoreneighbours.json
```

## Authenticating The Request

No authentication is required for this request type.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you are querying

---

### playerID Guid

The player ID to query. Either playerID or scoreID must be specified in the request. Refer to the [authentication service](#) for how to retrieve this ID.

---

### scoreID guid

The unique record ID of the score to query. Either scoreID or playerID must be specified in the request.

---

### range int32

How many scores to return on either side of the queried score.

If no value is specified, or an invalid value is specified this defaults to 5 which will return up to 11 scores (the queried score, plus up to 5 scores on each side).

---

### compareRanks int

Optionally specify this value for leaderboards that support **score history**. This value represents how many days ago you wish to compare returned scores in this query to. For example, if 10 is specified then the relevant **score history object** will be returned in the score object representing what this score was 10 days ago.

---

### requesterIP string

If not passed, the IP address of the request origin will be used. You should pass the visitors IP address with this parameter if you're not querying the end point through a client side implementation, otherwise this IP's shadow banned scores will not show.

---

### culture string

Optionally specify the locale to render returned values with. If no value or an invalid value is provided, the leaderboard's default culture code is used.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"Invalid leaderboardID",
  "shouldRetry":false
}
```

---

### success bool

If the request was successful or not. For request failures, this will always be false.

---

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{  
  "success": true,  
  "formattingCulture": "en-US",  
  "scores": [...],  
}
```

---

### **success bool**

If the request was successful or not. For request successes, this will always be true.

---

### **formattingCulture string**

The locale used to render various formatted values in the response. This will fall back to the leaderboard's default locale if no culture value is posted or the posted culture value is invalid.

---

### **scores array**

An array of [score objects](#). The score array will contain the requested score, with up to **range** neighbours before and after it.

# GET SCORE HISTORY

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/score-history>

## Get score history

Given a player ID or a score record ID, return the daily history of this score for the last 365 days.

This is only supported on leaderboards where one score per player identifier is set.

*If the rankings and score value do not change day to day then no history record will exist - there will be a gap in the records.*

## Request URL

All parameters in the request can be sent in the querystring or posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/getscorehistory.json
```

## Authenticating The Request

No authentication is required for this request type.

## Request Parameters

### leaderboardID guid Required

The ID of the leaderboard you are querying

### playerID guid

The player ID to query. Either playerID or scoreID must be specified in the request. Refer to the [authentication service](#) for how to retrieve this ID.

### scoreID guid

The unique record ID of the score to query. Either scoreID or playerID must be specified in the request.

### culture string

Optionally specify the locale to render returned values with. If no value or an invalid value is provided, the leaderboard's default culture code is used.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"This leaderboard does not support score histories.",
  "shouldRetry":false
}
```

---

### success bool

If the request was successful or not. For request failures, this will always be false.

---

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true,
  "scoreID": "c9547c1e-d219-4894-8c9f-13c5119c4563",
  "player": { ... },
  "country": "US",
  "formattingCulture": "en-US",
  "scoreHistory ": [...],
}
```

---

### success bool

If the request was successful or not. For request successes, this will always be true.

---

**scoreID guid**

The unique record ID for this score

---

**player playerobject**

The **player** of this score record

---

**country string**

The ISO 3166-1 alpha-2 country code of the IP address that originally posted the score. Will return as **NULL** if the country could not be ascertained.

---

**formattingCulture string**

The locale used to render various formatted values in the response. This will fall back to the leaderboard's default locale if no culture value is posted or the posted culture value is invalid.

---

**scoreHistory array**

An array of up to 365 **score history objects**, ordered by oldest score first.



# DELETE SCORES

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/delete-scores>

---

## Delete Scores

Deletes scores either by specific score ID, or scores by a player ID.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/deletescores.json
```

## Authenticating The Request

A **secret** must be passed in this request. This end point should not be called client side ever as it would expose the secret key.

---

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the request will be rejected.

Secret keys must never be exposed to clients.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you want to post this score to

---

### playerID guid

The ID of the player you want to delete scores for. The scores will be deleted in a random order. A playerID or scoreID must be provided in the request. Refer to the [authentication service](#) for how to retrieve this ID.

---

### scoreID guid

The ID of the score to delete. A scoreID or playerID must be provided in the request.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"timestamp is required parameter.",
  "shouldRetry":false
}
```

### success bool

If the request was successful or not. For request failures, this will always be false.

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true,
  "scoresDeleted": 500,
  "mightHaveMore": true
}
```

### success bool

If the request was successful or not. For request successes, this will always be true.

### scoresDeleted int32

The number of scores deleted. This can range from 0 to 500. No more than 500 scores can be deleted in any one request.

### mightHaveMore bool

If the scores deleted is the maximum allowed to be deleted in one request, this value will show as true indicating that there may be more scores to delete in this request.

# SHADOW BAN PLAYERS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/shadow-ban>

---

## Shadow Ban Players

You can shadow ban IP addresses and player identifiers from your leaderboards. This will still show their posted scores to the affected player identifiers and IP addresses, but will be hidden from view for everyone else viewing your leaderboard.

IP addresses are never stored in their raw format in our database, see our [privacy page](#) for more information.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/shadowban.json
```

## Authenticating The Request

A **secret** must be passed in this request. This end point should not be called client side ever as it would expose the secret key.

---

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the request will be rejected.

Secret keys must never be exposed to clients.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you want to add to the shadow ban list

---

### playerID guid

The ID of the player you want to shadow ban. A playerID, ipAddress, scoreID or ipHash must be provided in the request. Refer to the [authentication service](#) for how to retrieve this ID.

---

### ipAddress string

The IP address to shadow ban. Can be an IPV4 or IPV6 address, ranges are not permitted. A playerId, ipAddress, scoreID or ipHash must be provided in the request.

### scoreID guid

The ID of the score to shadow ban. This bans the scores player identifier AND IP address. A playerId, ipAddress, scoreID or ipHash must be provided in the request.

### ipHash int

The IP hash to shadow ban. A playerId, ipAddress, scoreID or ipHash must be provided in the request.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"timestamp is required parameter.",
  "shouldRetry":false
}
```

### success bool

If the request was successful or not. For request failures, this will always be false.

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true
}
```

 }

---

**success bool**

If the request was successful or not. For request successes, this will always be true.

# REMOVE SHADOW BAN

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/remove-shadow-ban>

---

## Remove Shadow Ban

You can remove IP addresses and player identifiers from your leaderboards shadow ban lists.

IP addresses are never stored in their raw format in our database, see our [privacy page](#) for more information.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/unshadowban.json
```

## Authenticating The Request

A **secret** must be passed in this request. This end point should not be called client side ever as it would expose the secret key.

---

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the request will be rejected.

Secret keys must never be exposed to clients.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you want to add to the shadow ban list

---

### playerID guid

The ID of the player you want to remove from this leaderboards shadow ban list. A playerID, ipAddress, scoreID or ipHash must be provided in the request. Refer to the [authentication service](#) for how to retrieve this ID.

---

### ipAddress string

The IP address to remove from this leaderboards shadow ban list. Can be an IPV4 or IPV6 address, ranges are not permitted. A playerID, ipAddress, scoreID or ipHash must be

provided in the request.

---

### scoreID guid

The ID of the score to remove from the shadow ban list. This unbans the scores player identifier AND IP address. A playerId, ipAddress, scoreID or ipHash must be provided in the request.

---

### ipHash int

The IP hash to remove from the shadow ban list. A playerId, ipAddress, scoreID or ipHash must be provided in the request.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"timestamp is required parameter.",
  "shouldRetry":false
}
```

---

### success bool

If the request was successful or not. For request failures, this will always be false.

---

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true
}
```

---

**success bool**

If the request was successful or not. For request successes, this will always be true.



# GET IP SHADOW BANS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/get-ip-shadow-bans>

---

## Get IP Shadow Bans

Retrieve a list of all IP hashes that have been shadow banned.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/getipshadowbans.json
```

## Authenticating The Request

A **secret** must be passed in this request. This end point should not be called client side ever as it would expose the secret key.

---

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the request will be rejected.

Secret keys must never be exposed to clients.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you are querying

---

### perPage int32

How many ban records to display on each page of results, from 1 to 500. If an invalid value is provided the default value of 20 is used.

---

### page int32

What page of results to return. If no value is provided, will default to the first page. If the value exceeds the total pages, the last page will be returned.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"This leaderboard does not support score histories.",
  "shouldRetry":false
}
```

### success bool

If the request was successful or not. For request failures, this will always be false.

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true,
  "pagination": { ... },
  "bans": [...],
}
```

### success bool

If the request was successful or not. For request successes, this will always be true.

### pagination pagination

A [pagination object](#) that helps you browse through pages of results.

### bans shadowBan

An array of [shadow ban objects](#) for this page of results.

# GET PLAYER IDENTIFIER SHADOW BANS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/get-player-shadow-bans>

---

## Get Player Identifier Shadow Bans

Retrieve a list of all player identifiers that have been shadow banned.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/getplayeridshadowbans.json
```

## Authenticating The Request

A **secret** must be passed in this request. This end point should not be called client side ever as it would expose the secret key.

---

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the request will be rejected.

Secret keys must never be exposed to clients.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you are querying

---

### perPage int32

How many ban records to display on each page of results, from 1 to 500. If an invalid value is provided the default value of 20 is used.

---

### page int32

What page of results to return. If no value is provided, will default to the first page. If the value exceeds the total pages, the last page will be returned.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"This leaderboard does not support score histories.",
  "shouldRetry":false
}
```

### success bool

If the request was successful or not. For request failures, this will always be false.

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true,
  "pagination": { ... },
  "bans": [...],
}
```

### success bool

If the request was successful or not. For request successes, this will always be true.

### pagination pagination

A [pagination object](#) that helps you browse through pages of results.

### bans shadowBan

An array of [shadow ban objects](#) for this page of results.

# CREATE A LEADERBOARD TEAM

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/teams/create-team>

## Create a Leaderboard Team

Create a new team in a leaderboard.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/createteam.json
```

## Authenticating The Request

A **secret** must be passed in this request. This end point should not be called client side ever as it would expose the secret key.

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the request will be rejected.

Secret keys must never be exposed to clients.

## Request Parameters

### leaderboardID guid Required

The ID of the leaderboard you want to create a team for.

### teamName string Required

The name of the team. Must not exceed 64 characters in length.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"Teams are not enabled for this leaderboard.",
}
```

```
"shouldRetry":false
}
```

### success bool

If the request was successful or not. For request failures, this will always be false.

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true,
  "id": "52bb3e1e-2620-4782-81ce-f22c2d973478"
}
```

### success bool

If the request was successful or not. For request successes, this will always be true.

### id guid

The ID of the new team.

# RENAME LEADERBOARD TEAM

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/teams/rename-team>

---

## Rename a Leaderboard Team

Rename an existing leaderboard team.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/renameteam.json
```

## Authenticating The Request

A **secret** must be passed in this request. This end point should not be called client side ever as it would expose the secret key.

---

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the request will be rejected.

Secret keys must never be exposed to clients.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you want to create a team for.

---

### teamID guid Required

The ID of the team you're renaming.

---

### teamName string Required

The new name of the team. Must not exceed 64 characters in length.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"Team name is too long.",
  "shouldRetry":false
}
```

---

### success bool

If the request was successful or not. For request failures, this will always be false.

---

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true
}
```

---

### success bool

If the request was successful or not. For request successes, this will always be true.



# ASSIGN A PLAYER TO A TEAM

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/teams/assign-player>

---

## Assign a Player to a Team

Assign a player identifier to a team.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/assignplayertoteam.json
```

## Authenticating The Request

A **secret** must be passed in this request. This end point should not be called client side ever as it would expose the secret key.

---

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the request will be rejected.

Secret keys must never be exposed to clients.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you want to create a team for.

---

### teamID guid Required

The ID of the team you're renaming.

---

### playerID guid Required

The player ID you're adding to the team. Refer to the [authentication service](#) for how to retrieve this ID.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"That player is already on this team.",
  "shouldRetry":false
}
```

---

### success bool

If the request was successful or not. For request failures, this will always be false.

---

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true
}
```

---

### success bool

If the request was successful or not. For request successes, this will always be true.

# REMOVE PLAYER FROM TEAM

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/teams/remove-player>

## Remove a Player from a Team

Remove a player from a leaderboard team.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/removeplayerfromteam.json
```

## Authenticating The Request

A **secret** must be passed in this request. This end point should not be called client side ever as it would expose the secret key.

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the request will be rejected.

Secret keys must never be exposed to clients.

## Request Parameters

### leaderboardID guid Required

The ID of the leaderboard you want to create a team for.

### teamID guid Required

The ID of the team you're renaming.

### playerID guid Required

The player identifier you're removing from the team. Refer to the [authentication service](#) for how to retrieve this ID.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"That player isn't on this team.",
  "shouldRetry":false
}
```

---

### success bool

If the request was successful or not. For request failures, this will always be false.

---

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true
}
```

---

### success bool

If the request was successful or not. For request successes, this will always be true.

# DELETE A TEAM

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/teams/delete-team>

---

## Delete a Team

Delete a team from the leaderboard.

### Request URL

All parameters in the request must be posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/deleteteam.json
```

## Authenticating The Request

A **secret** must be passed in this request. This end point should not be called client side ever as it would expose the secret key.

---

### secret string

If the game the leaderboard is associated with has a secret key, this must be provided or the request will be rejected.

Secret keys must never be exposed to clients.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you want to create a team for.

---

### teamID guid Required

The ID of the team you're deleting.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{  
  "success":false,  
  "errorMessage":"Passed team ID does not exist.",  
}
```

```
"shouldRetry":false  
}
```

---

### success bool

If the request was successful or not. For request failures, this will always be false.

---

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{  
  "success": true  
}
```

---

### success bool

If the request was successful or not. For request successes, this will always be true.

# GET TEAM

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/teams/get-team>

---

## Get Teams

Retrieve a single team in a leaderboard.

### Request URL

All parameters in the request can be sent in the querystring or posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/getteam.json
```

## Authenticating The Request

No authentication is required for this request type.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you want to fetch the teams for.

---

### teamID guid Required

The ID of the team you wish to fetch.

---

### culture string

Optionally specify the locale to render returned values with. If no value or an invalid value is provided, the leaderboard's default culture code is used.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"Invalid leaderboard ID passed.",
  "shouldRetry":false
}
```

---

**success bool**

If the request was successful or not. For request failures, this will always be false.

---

**errorMessage string**

An short message explaining why the request was denied.

This should probably not be shown to clients.

---

**shouldRetry bool**

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true
  "team": { ... },
  "formattingCulture": "en-US"
}
```

---

**success bool**

If the request was successful or not. For request successes, this will always be true.

---

**team teamobject**

The **team object** of the queried team.

---

**formattingCulture string**

The locale used to render various formatted values in the response. This will fall back to the leaderboard's default locale if no culture value is posted or the posted culture value is invalid.



# GET TEAMS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/teams/get-teams>

---

## Get Teams

Retrieve all teams in a leaderboard in their rank order.

### Request URL

All parameters in the request can be sent in the querystring or posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/getteams.json
```

## Authenticating The Request

No authentication is required for this request type.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you want to fetch the teams for.

---

### perPage int32

How many teams to display on each page of results, from 1 to 100. If an invalid value is provided the default value of 20 is used.

---

### page int32

What page of results to return. If no value is provided, will default to the first page. If the value exceeds the total pages, the last page will be returned.

---

### culture string

Optionally specify the locale to render returned values with. If no value or an invalid value is provided, the leaderboard's default culture code is used.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"Invalid leaderboard ID passed.",
  "shouldRetry":false
}
```

### success bool

If the request was successful or not. For request failures, this will always be false.

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true
  "pagination": { ... },
  "teams": [ ... ],
  "formattingCulture": "en-US"
}
```

### success bool

If the request was successful or not. For request successes, this will always be true.

### pagination pagination

A [pagination object](#) that helps you browse through pages of results.

### teams teamobject

A list of [team objects](#).

---

**formattingCulture string**

The locale used to render various formatted values in the response. This will fall back to the leaderboard's default locale if no culture value is posted or the posted culture value is invalid.

# GET TEAM PLAYERS

View online: <https://www.construct.net/en/game-services/manuals/game-services/leaderboards/api-end-points/teams/team-players>

---

## Get Team Players

Retrieve all players in a team.

### Request URL

All parameters in the request can be sent in the querystring or posted. Make all requests to the following URL:

```
https://leaderboards.construct.net/getteampayers.json
```

## Authenticating The Request

No authentication is required for this request type.

## Request Parameters

---

### leaderboardID guid Required

The ID of the leaderboard you want to fetch the teams for.

---

### teamID guid Required

The ID of the team you want to fetch the players for.

---

### perPage int32

How many teams to display on each page of results, from 1 to 100. If an invalid value is provided the default value of 20 is used.

---

### page int32

What page of results to return. If no value is provided, will default to the first page. If the value exceeds the total pages, the last page will be returned.

---

### order string

If this value equals `score` players will be returned, best scores first. Any other value will return the players alphabetically.

---

### culture string

Optionally specify the locale to render returned values with. If no value or an invalid value is provided, the leaderboard's default culture code is used.

## Failure Response

Unsuccessful responses always return 4xx HTTP status codes.

```
{
  "success":false,
  "errorMessage":"That team does not exist.",
  "shouldRetry":false
}
```

---

### success bool

If the request was successful or not. For request failures, this will always be false.

---

### errorMessage string

An short message explaining why the request was denied.  
This should probably not be shown to clients.

---

### shouldRetry bool

If true, this means the request is valid but it couldn't be processed at this current time - usually due to rate limits.

If this value returns as true, it's recommended to wait a few seconds then re-attempt the request. When re-attempting requests, make sure you regenerate the **timestamp** and **hash** parameters if no secret is being used.

## Success Response

Successful responses always return the HTTP 200 status code.

```
{
  "success": true
  "pagination": { ... },
  "team": { ... },
  "players": [
    {
      "player": { ... },
      "currentScore": 35279,
      "formattedScore": "00:35:0279"
    },
    {
```

```

    "player": { ... },
    "currentScore": 35279,
    "formattedScore": "00:35:0279"
  },
  {
    "player": { ... },
    "currentScore": null
  },
  {
    "player": { ... },
    "currentScore": 35279,
    "formattedScore": "00:35:0279"
  }
],
"formattingCulture": "en-US"
}

```

### success bool

If the request was successful or not. For request successes, this will always be true.

### pagination pagination

A [pagination object](#) that helps you browse through pages of results.

### team teamobject

A [team object](#) for this team.

### players object

A list of players with their best score.

### players.player playerobject

The [player](#) in this team.

### players.currentScore int64

This players current best score. Will show as `null` if they do not currently have any posted scores.

### players.formattedScore int64

This players current best score formatted under the score format specifications for this leaderboard, rendered using the requested locale.

---

**formattingCulture string**

The locale used to render various formatted values in the response. This will fall back to the leaderboard's default locale if no culture value is posted or the posted culture value is invalid.