User Scripts

Overview

User Scripts are Python-based automation tools that execute operations on a predetermined list of users. Users can be selected either through custom filters configured by the administrator or by importing rows from a CSV file. These scripts enable you to:

- Retrieve information about users in bulk
- Perform batch operations on selected users
- Automate repetitive user management tasks

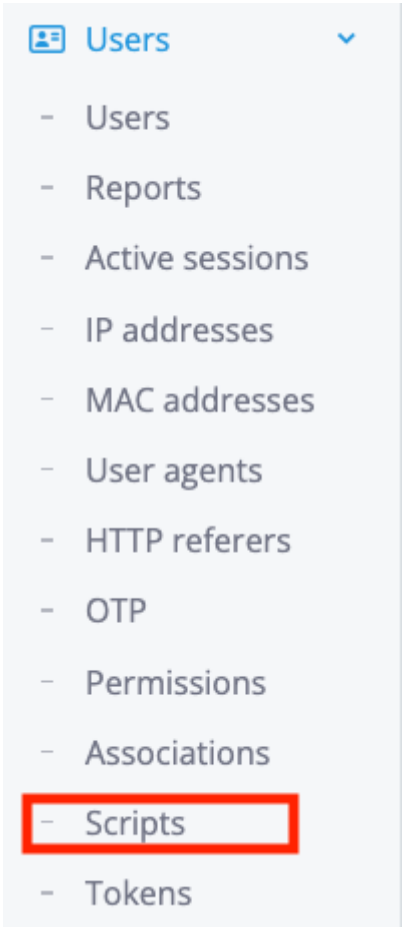
Note: User Scripts must be executed manually by the administrator.

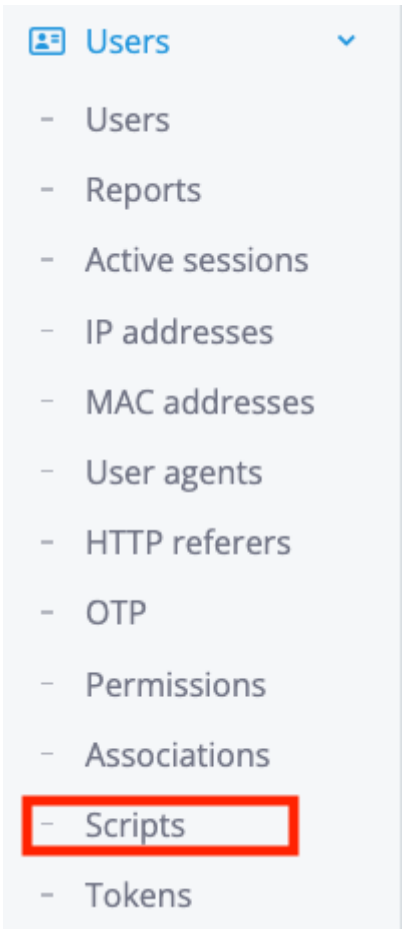
Accessing User Scripts

To access the User Scripts configuration screen:

1. Navigate to the **Users** main menu
2. Select **Scripts** from the sub-menu

The **Users scripts** configuration screen can be found under the Scripts sub-menu on the Users main menu:


Users
Users
Reports
Active sessions
IP addresses
MAC addresses
User agents
HTTP referers
OTP
Permissions
Associations
Scripts
Tokens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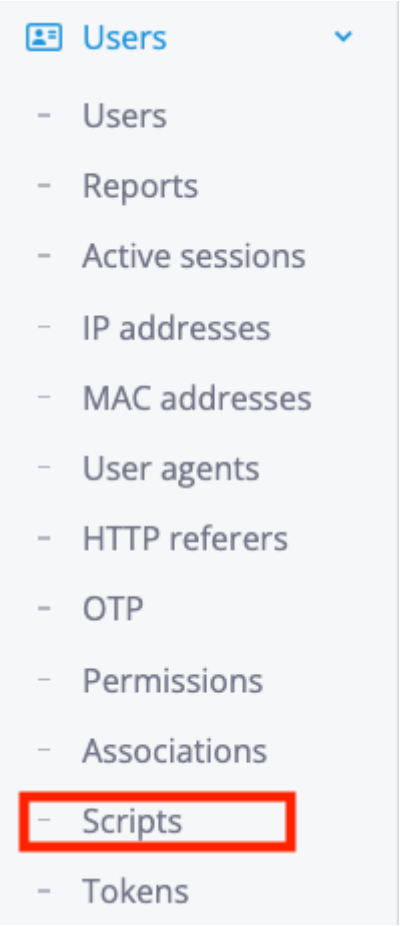

User Object Reference

Overview

The script execution context provides access to a special **User** object, referenced as either `user` or `obj`. This object allows you to:

- Read and modify user attributes
- Perform operations on the managed user
- Execute special actions related to the user

Attributes

The `user` object exposes the following attributes:

Name	Type	Description
`obj_id`	integer	Numeric unique identification of the current `user`

Name	Type	Description
`username`	string	Used to read or change the `username` field of the current `user` (read/write)
`username_length`	integer	Used to read or change the `username_length` field of the current `user` (read/write)
`first_name`	string	Used to read or change the `first_name` field of the current `user` (read/write)
`last_name`	string	Used to read or change the `last_name` field of the current `user` (read/write)
`email`	string	Used to read or change the `email` field of the current `user` (read/write)
`external_id`	string	Used to read or change the `external_id` field of the current `user` (read/write)
`klass`	string	Used to read or change the `klass` field of the current `user` (read/write)
`is_active`	boolean	Used to activate or deactivate the current `user` (read/write)
`date_joined`	datetime	Date/time of `user` joined (read-only)
`first_login`	datetime	Date/time of `user` first login (read-only)
`last_login`	datetime	Date/time of `user` last login (read-only)
`expiration`	datetime	Date/time of `user` expiration (read/write)
`last_update`	datetime	Date/time of `user` last update (read/write)
`organization_id`	integer	Numeric identification of the `user` organization
`avatar_url`	string	Used to read or change the `avatar_url` field of the current `user` (read/write)
`description`	string	Used to read or change the `description` field of the current `user` (read/write)

Methods

The `user` object provides the following methods for managing profiles and attributes:

profile_add()

Adds a specific profile to the user. You can add using the id or the short name of the profile.

Parameters:

- `id` (integer) - Profile ID to add
- `short_name` (string) - Profile short name to add

Note: Use either `id` OR `short_name`, not both.

Returns:

- `updated` (boolean) - Whether the operation succeeded
- `message` (string) - Status or error message

Examples:

```
# Add profile by ID
updated, message = user.profile_add(id=12)


# Add profile by short name
updated, message = user.profile_add(short_name="aaa-01")
```

profile_remove()

Removes a specific profile from the user. You can remove using the id or the short name of the profile.

Parameters:

- `id` (integer) - Profile ID to remove
- `short_name` (string) - Profile short name to remove

Note: Use either `id` OR `short_name`, not both.

Returns:

- `updated` (boolean) - Whether the operation succeeded
- `message` (string) - Status or error message

Examples:

```
# Remove profile by ID
updated, message = user.profile_remove(id=12)
```

```
# Remove profile by short name
updated, message = user.profile_remove(short_name="aaa-01")
```

attribute_add()

Adds a specific attribute to the user. You must provide the attribute name, value, and optionally an operation.

Parameters:

- `attr` (string, required) - Attribute name to add
- `value` (string, required) - Value to assign to the attribute
- `operation` (string, optional) - Operator to use (default: `=`)
  - Available options: `=`, `+=`, `:=`

Returns:

- `updated` (boolean) - Whether the operation succeeded
- `message` (string) - Status or error message

Example:

```
updated, message = user.attribute_add(
    attr='Username',
    value="zequenze",
    operation='+='
)
```

attribute_remove()

Removes a specific attribute from the user. You must provide the attribute name, value, and optionally an operation.

Parameters:

- `attr` (string, required) - Attribute name to remove
- `value` (string, required) - Value to remove from the attribute
- `operation` (string, optional) - Operator to use (default: `=`)
  - Available options: `=`, `+=`, `:=`

Returns:

- `updated` (boolean) - Whether the operation succeeded
- `message` (string) - Status or error message

Example:

```
updated, message = user.attribute_remove(
    attr='Username',
    value="zequenze",
    operation='+='
)
```

check_attribute_add()

Adds a specific check attribute to the user. You must provide the attribute name, value, and optionally an operation.

Parameters:

- `attr` (string, required) - Check attribute name to add
- `value` (string, required) - Value to assign to the check attribute
- `operation` (string, optional) - Operator to use (default: `=`)
  - Available options: `=`, `+=`, `:=`

Returns:

- `updated` (boolean) - Whether the operation succeeded
- `message` (string) - Status or error message

Example:

```
updated, message = user.check_attribute_add(
    attr='Max-Daily-Session',
    value=4,
    operation='=='
)
```

check_attribute_remove()

Removes a specific check attribute from the user. You must provide the attribute name, value, and optionally an operation.

Parameters:

- `attr` (string, required) - Check attribute name to remove
- `value` (string, required) - Value to remove from the check attribute
- `operation` (string, optional) - Operator to use (default: `:=`)
  - Available options: `:=`, `+=`, `==`, `!=`, `>`, `>=`, `<`, `<=`, `=*`

Returns:

- `updated` (boolean) - Whether the operation succeeded
- `message` (string) - Status or error message

Example:

```
updated, message = user.check_attribute_remove(
    attr='Max-Daily-Session',
    value=4,
    operation='=='
)
```

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