# Akamai Security Configuration Activation Script

This document provides an overview of the Akamai Security Configuration Activation Script, its functionality, and usage instructions. The script enables users to activate security configurations on the Akamai platform, compare versions, monitor activation statuses, and enforce staging checks before production activations.

## Features

1. Activate security configurations by ID or name.  
2. Compare the new configuration version with the currently active version.  
3. Enforce staging checks for production activations.  
4. Monitor the status of ongoing activations.  
5. Flexible inputs for configuration ID, name, version, and environment.  
6. Notification emails for activation status updates.  
7. Error handling for missing or invalid inputs.  
8. Automatic removal of leading and trailing whitespace in inputs.

## Prerequisites

1. Python 3.x installed on your system.  
2. Akamai EdgeGrid Authentication: Ensure a properly configured `.edgerc` file with the required credentials.  
 Example `.edgerc`:  
[default]  
client\_token = akab-client-token  
client\_secret = akab-client-secret  
access\_token = akab-access-token  
host = akab-baseurl.luna.akamaiapis.net

## Installation

1. Clone the repository:  
 git clone https://github.com/your-repository-url.git  
 cd your-repository-url  
2. Install required Python packages:  
 pip install requests akamai.edgegrid

## Parameters

|  |  |
| --- | --- |
| Parameter | Description |
| --config\_id | (Optional) The ID of the security configuration. Use this or --config\_name. |
| --config\_name | (Optional) The name of the security configuration. Use this or --config\_id. |
| --config\_version | (Required) The version of the configuration to activate, e.g., 'v1', 'v2', etc. |
| --network | (Optional) The network to activate on ('staging' or 'production'). Default is 'staging'. |
| --note | (Optional) A note to include with the activation. Default is 'New Version to Activate'. |
| --emails | (Optional) Notification emails for activation status updates. Default is 'aactivation@test.com'. |
| --edgerc\_file | (Optional) Path to the .edgerc file for Akamai API authentication. Default is '~/.edgerc'. |
| --section\_name | (Optional) Section name in the .edgerc file. Default is 'default'. |
| --activation\_id | (Optional) Activation ID to check the status of an ongoing activation. |
| --compare | (Optional) Compare the current active version with the target version ('Y' or 'N'). Default is 'Y'. |
| --create | (Optional) Apply changes if 'Y', else only outputs comparison. Default is 'N'. |

## Usage Instructions

### Monitor Activation Status  
Check the status of an activation by providing the activation ID:  
python activate\_security.py --activation\_id 1234  
  
### Compare Versions Before Activation  
Compare the current active version with the target version:  
python activate\_security.py --config\_name 'Corporate Sites WAF' --config\_version v9 --compare Y  
  
### Activate Configuration in Staging  
Activate a configuration in staging with comparison:  
python activate\_security.py --config\_id 7180 --config\_version v9 --network staging --compare Y --create Y  
  
### Activate Configuration in Production  
Activate a configuration in production after ensuring it's active in staging:  
python activate\_security.py --config\_name 'Corporate Sites WAF' --config\_version v9 --network production --create Y

## Error Handling

1. If a provided configuration name does not exist, the script outputs:  
 `Provided Security Configuration Name: {config\_name} does not exist. Please check the name and retry.`  
2. If a specified configuration version cannot be found, the script outputs:  
 `Provided Configuration Version: {config\_version} for Security Configuration: {config\_name} cannot be found. Please recheck and try again.`