

Akamai As Code Training

GIT - CLI

2023-01-30 Mon 16:22

Table of Contents

- 1. GIT Basics
- 2. Akamai CLI
- 3. Akamai CLI - DNS
- 4. Akamai CLI - PM
- 5. Akamai CLI - Pipeline
- 6. Thank you

1. GIT Basics

GIT Basic Configuration - Identity

- `git config --global user.name Your Name`
- `git config --global user.email your@email.com`

GIT Basic Configuration - Alias

```
- git config --global alias.co commit
- git config --global alias.st status
- git config --global alias.br branch
- git config --global alias.l log --oneline -10
- git config --global alias.ltree log --color --graph
  --pretty=format: '%Cred%h%Creset - %C(yellow)%d%Creset %s
  %Cgreen(%cr)%C(bold blue) <%an> %Creset' --abbrev-commit
  --date-order
```

2. Akamai CLI

General Akamai CLI usage

`akamai [global flags] command [command flags] [arguments...]`

Global Flags:

<code>--edgerc value, -e value</code>	Location of the credentials file [<code>\$AKAMAI_EDGERC</code>]
<code>--section value, -s value</code>	Section of the credentials file [<code>\$AKAMAI_EDGERC_SECTION</code>]
<code>--accountkey value, --account-key value</code>	Account switch key [<code>\$AKAMAI_EDGERC_ACCOUNT_KEY</code>]
<code>--help</code>	show help (default: false)
<code>--bash</code>	Output bash auto-complete (default: false)
<code>--zsh</code>	Output zsh auto-complete (default: false)
<code>--proxy value</code>	Set a proxy to use
<code>--version</code>	Output CLI version (default: false)

This is an example command list; it can be different based on what is installed.

Commands:

```
config
install (alias: get)
list
search
uninstall
update
upgrade
help
```

← Default command list

Installed Commands::

```
appsec (alias: appsec/appsec)
cloudlets (aliases: cloudlets, cloudlets/cloudlets)
cps (aliases: certs, cps/cps)
dns (alias: dns/dns)
edgekv (aliases: ekv, edgekv, edgeworkers/edgekv)
edgeworkers (aliases: ew, edgeworkers, edgeworkers/edgeworkers)
firewall (aliases: fw, firewall/firewall)
gtm (alias: gtm/gtm)
image-manager (aliases: im, image-manager/image-manager)
pipeline (aliases: pl, pd, proddeploy, property-manager/pipeline)
property-manager (aliases: pm, snippets, property-manager/property-manager)
purge (alias: purge/purge)
query (alias: query/query)
sandbox (alias: sandbox/sandbox)
site-shield (aliases: ss, firewall/site-shield)
```

Akamai CLI – Getting Help

Example how to get help from a command (it apply to any command)

- `akamai pm -h`
- `akamai pm command -h`

```
carlesjo-mpdoo 2023-01-26 03:33 PM • pipeline (git:master)
akamai pm -h
Usage: akamai property-manager [options] [command]

Property Manager CLI. Run these commands from the project directory that contains your local properties.

Options:
  -V, --version                output the version number
  -f, --format <format>       Select output format for commands, either 'table', the default, or 'json'.
                               The section of the .edgerc file containing the user profile, or client ID, to use for the command. If not set, uses the
  -s, --section <section>     'default' settings in the .edgerc file.
                               Show detailed log information for the command.
  -v, --verbose                Optional. Enter the location of the .edgerc file used for credentials. If option not set, uses the edgerc.config file in the
  --edgerc <edgerc>           project directory. Otherwise, uses the .edgerc file in your home directory.
                               Optional. Enter the directory containing all property and project files. If option not set, uses the value of the
  --workspace <workspace>     AKAMAI_PROJECT_HOME environment variable. Otherwise, uses the current working directory as the workspace.
                               Optional. If you have multiple accounts, enter the account switch key you want to use when running commands. You can use the
  -a, --accountSwitchKey <accountSwitchKey> Identity Management API to retrieve the key:
                               https://developer.akamai.com/api/core_features/identity_management/v2.html#getaccountsswitchkeys.
  -h, --help                  output usage information

Commands:
  activate<av> [options]       Activate the latest version of a property. By default, this command also executes the merge and save commands.
  activate-version [options]    Activate a specific version of a property. Activates latest if no version specified.
  check-activation-status<s> [options] Check the activation status of a property.
  create-cpcode [options]      Create a new CP code.
  deactivate<dv> [options]     Deactivates a property. Checks if the property is active and then deactivates it.
  delete [options]             Permanently deletes a property. You have to deactivate the property on both networks first.
  help                         help command
  hostname-update<hu> [options] Updates hostnames assigned to this property.
  import<i> [options]           Import an existing property from Property Manager.
  list-contracts<lc>           List contracts available based on the current user credentials and setup.
  list-cpcodes<lcp> [options] List CP codes available based on the current user credentials and setup.
  list-edgehostnames<leh> [options] List edge hostnames available based on the contract ID and group ID provided. Use the list commands to retrieve the
                               required IDs. May return a long list of hostnames.
  list-groups<lg>             List groups available based on the current user credentials (clientId).
  list-products<lp> [options] List products available based on the current user credentials and contract ID.
  list-properties<lpr> [options] List properties available based on the current user credentials and setup.
```


3. Akamai CLI - DNS

Akamai CLI – DNS – Create Zone

Example create DNS zone

```
akamai --accountkey accountID dns create-zoneconfig newzone.com  
--type primary --contractid contractID --groupid groupID  
--initialize
```

Akamai CLI – DNS – Create Record

Example create a CName entry

```
akamai dns --accountkey accountID create-recordset newzone.com  
--name newrecord.newzone.com --type cname --ttl seconds  
--rdata FQDN
```

Akamai CLI – DNS – List

Example list DNS zone information

```
akamai dns --accountkey accountID list-zoneconfig --search newzone.com
```

Example list DNS record information

```
akamai dns --accountkey accountID list-recordsets newrecord.newzone.com
```

4. Akamai CLI - PM

Akamai CLI – PM – New Property with Template

Create a new PM property based on template

```
akamai pm -a accountID new-property -e template.config.com_pm  
-n template_version -p newconfig.name.com_pm
```

`-e, --propertyId <propertyId/propertyName>` Optional. Use an existing property as the blueprint for the new one. Enter either a property ID or an exact property name. The CLI looks up the group ID, contract ID, and product ID of the existing property and uses that data to create a new property.

`-n, --propver <propver>` Add only if using a property as a template. Enter the version of the existing property to use as the blueprint. Uses latest version if omitted.

`-p, --property <propertyName>` Property name. Optional if a default property was previously set with the `set-default` command.

Akamai CLI – PM – New Property with no Template

Create a new PM property based on product ID

```
akamai pm -a accountID new-property -c contractId -g groupId  
-d productId -p newconfig.name.com_pm
```

-c, --contractId <contractId> Enter the contract ID to use. Optional if using -e with a property ID or name.

-d, --productId <productId> Enter the product ID to use. Optional if using -e with a property ID or name.

-g, --groupId <groupId> Enter the group ID for the property. Optional if using -e with a property ID or name.

-p, --property <propertyName> Property name. Optional if a default property was previously set with the set-default command.

Akamai CLI – PM – Property Update

Update PM property configuration with json file

```
akamai pm -a accountID property-update --note "Version note"  
-p newconfig.name.com_pm --propver configversion --file logic.json
```

--file <file> Specify the JSON file containing the rules. PM json specifications:

<https://techdocs.akamai.com/property-mgr/reference/rule-trees>

--note <message> Alias of --message. Add comments for the property. -p, --property <property> The name or ID of the property you are updating. --propver <propver> Optional. Select the property version to update

Akamai CLI – PM – JSON



Parent Rule match and behaviors

Default Rule behaviors

PM Variables definitions

```
$ jq . pmcode_template.json
{
  "accountId": "act_YYYY",
  "contractId": "ctr_YYYY",
  "groupId": "grp_YYYY",
  "ruleFormat": "latest",
  "propertyId": "prp_YYYYX",
  "propertyName": "property_name",
  "propertyVersion": 1,
  "rules": {
    "name": "default",
    "children": [
      {
        "name": "Parent Rule",
        "children": [
          {
            "name": "Child Rule 1",
            "children": [],
            "behaviors": [],
            "criteria": [],
            "criteriaMustSatisfy": "all",
            "comments": ""
          },
          {
            "name": "Child Rule 2",
            "children": [],
            "behaviors": [],
            "criteria": [],
            "criteriaMustSatisfy": "all",
            "comments": ""
          }
        ],
        "behaviors": [],
        "criteria": [],
        "criteriaMustSatisfy": "all",
        "comments": ""
      },
      {
        "name": "Default Rule",
        "children": [],
        "behaviors": [],
        "options": {
          "is_secure": true
        },
        "variables": [],
        "comments": ""
      }
    ]
  }
}
```

[PM Rule Tree Specification](#)

Akamai CLI – PM – Match

```
"criteria": [  
  {  
    "name": "contentType",  
    "options": {  
      "matchOperator": "IS_ONE_OF",  
      "matchWildcard": true,  
      "matchCaseSensitive": false,  
      "values": [  
        "text/html*",  
        "text/css*",  
        "application/x-javascript*"  
      ]  
    }  
  }  
],
```

[Rule tree criteria specification](#)

Akamai CLI – PM – Behaviors

```
"behaviors": [  
  {  
    "name": "origin",  
    "options": {  
      "originType": "CUSTOMER",  
      "hostname": "example.com",  
      "forwardHostHeader": "REQUEST_HOST_HEADER",  
      "cacheKeyHostname": "ORIGIN_HOSTNAME",  
      "compress": true,  
      "tcipEnabled": false,  
      "httpPort": 80  
    }  
  },  
  {  
    "name": "cpCode",  
    "options": {  
      "value": {  
        "id": 12345,  
        "name": "main site"  
      }  
    }  
  }  
]
```

[Rule tree behavior specification](#)

Akamai CLI – PM – Property Activation

Activate an Akamai PM property

```
akamai pm -a accountID activate-version -m "Activation note"
-e "email list" -p newconfig.name.com_pm --propver configversion
-n <network> -w
```

<code>-m, --message <message></code>	Enter a message describing the reason for activating.
<code>-n, --network <network></code>	Network, either 'production' or 'staging'. You can shorten 'production' to 'prod' or 'p' and 'staging' to 'stage' or 's'.
<code>-p, --property <property></code>	Property name or property ID. Optional if default property was previously set using set-default.
<code>--propver <propver></code>	Optional. The property version to activate. Uses latest version if not specified.
<code>-w, --wait-for-activate</code>	Prevents you from entering more commands until activation is complete. May take several minutes.

5. Akamai CLI - Pipeline

Akamai CLI – Pipeline - Create

Usage: akamai pipeline new-pipeline|np [options] <environments...>

```
akamai pipeline -a accountID new-pipeline -e template_property_pm  
-n template_version  
-p new_pipeline_name <space separated environments>
```

-e, --propertyId <propertyId/propertyName> Optional. Use an existing property as the blueprint for the new one. Enter either a property ID or an exact property name. The CLI looks up the group ID, contract ID, and product ID of the existing property and uses that data to create a new property.

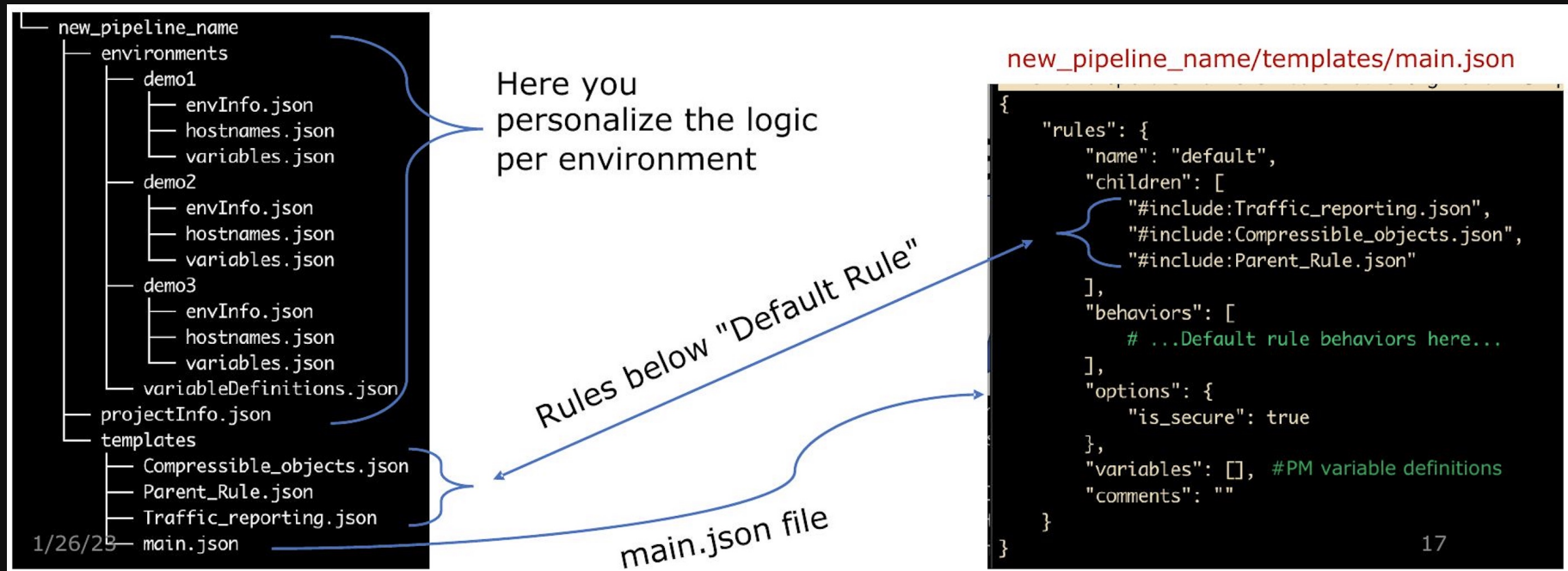
-n, --propver <propver> Add only if using a property as a template. Enter the version of the existing property to use as the blueprint. Uses latest version if omitted.

-p, --property <propertyName> Property name.

Akamai CLI – Pipeline - Tree

example

```
akamai pipeline -a accountID new-pipeline -e a_config_as_template_pm -n template_version -p new_pipeline demo1 demo2 demo3
```



Akamai CLI – Pipeline - Variables

Template File

variableDefinitions.json

variables.json (environment)

```
$ jq . main.json
{
  "rules": {
    "name": "default",
    "children": [
      "#include:Traffic_reporting.json",
      "#include:Compressible_objects.json",
      "#include:Parent_Rule.json"
    ],
    "behaviors": [
      {
        "name": "origin",
        "options": {
          "cacheKeyHostname": "REQUEST_HOST_HEADER",
          "compress": true,
          "enableTrueClientIp": true,
          "forwardHostHeader": "REQUEST_HOST_HEADER",
          "httpPort": 80,
          "httpsPort": 443,
          "originCertificate": "",
          "originSni": true,
          "originType": "CUSTOMER",
          "ports": "",
          "trueClientIpClientSetting": false,
          "trueClientIpHeader": "True-Client-IP",
          "verificationMode": "CUSTOM",
          "hostname": "${env.originHostname}",
          "customValidCnValues": [
            "${Origin_Hostname}"
          ]
        }
      }
    ]
  }
}
```

```
$ jq . environments/variableDefinitions.json
{
  "definitions": {
    "originHostname": {
      "type": "hostname",
      "default": null
    },
    "cpCode": {
      "type": "cpCode",
      "default": 1430518
    }
  }
}
```

```
$ jq . environments/demo1/variables.json
{
  "originHostname": "origin-demo1.demos.training.ranet.me",
  "cpCode": null
}
```


Akamai CLI – Pipeline - Merge

Pipeline merge an environment

`akamai pipeline merge -n -p pipeline_name environment`

`-n, --no-validate` Merge the environment without validating.

`-p, --pipeline <pipelineName>` Pipeline name.

```
$ akamai pipeline merge -n -p new_pipeline_name demo1
```

"Action"	"Result"
"changes detected"	"yes"
"rule tree stored in"	"/Users/ralpizar/akamai/documents/2023/training_akamai_as_code/code/pipeline/new_pipeline_name/dist/demo1.new_pipeline_name.papi.json"
"hash"	"25af5bacab60c4f6a0044bd852f0d11cc1bc4216f6894bad26aa67c4c8666604"
"validation performed"	"no"
"validation warnings"	"no"
"validation errors"	"no"
"hostname warnings"	"no"
"hostname errors"	"no"

This is the file
you need to
update property
manager config

18

6. Thank you

Any question?

