

# API Examples

## PowerShell

Below is an example of how to authenticate and work with the CMS Api.

**Note:** Make sure the user you are using is permitted to perform CMS Authentication.

```
#####  
# Variables  
#####  
# Modify for your endpoint  
$BaseUrl      = 'https://api.cloudaxis.cloud/api/v1/'  
# This user is permitted to do CMS Auth  
$EmailAddress = 'sample@api.connection'  
$Password     = 'D!dYouRe@llyTh1nkItW0uldB3Th4t3@sy'  
#####  
# Functions  
#####  
# Get a Token  
function Get-CmsBearerToken  
{  
    [CmdletBinding(DefaultParameterSetName="Initial")]  
    param([Parameter(Mandatory=$true, ParameterSetName="Initial")]  
        [string]$EmailAddress,  
        [Parameter(Mandatory=$true, ParameterSetName="Initial")]  
        [string]$Password,  
        [Parameter(Mandatory=$true, ParameterSetName="Refresh")]  
        [string]$RefreshToken,  
        [Parameter(Mandatory=$true)]  
        [string]$BaseUrl)  
    end  
    {  
        New-CmsLogMessage -T Info "Retrieving $($PSCmdlet.ParameterSetName) CMS bearer token."  
  
        switch ($PSCmdlet.ParameterSetName)  
        {  
            'Initial' {
```

```

        $Url = "$($BaseUrl.Trim('/'))/auth/token"
        $Body = @{
            EmailAddress = $EmailAddress
            Password = $Password
        } | ConvertTo-Json
    }
    'Refresh' {
        $Url = "$($BaseUrl.Trim('/'))/auth/token-refresh"
        $Body = @{
            RefreshToken = $RefreshToken
        } | ConvertTo-Json
    }
}

$headers = New-Object "System.Collections.Generic.Dictionary[[String],[String]]"
$headers.Add("Content-Type", "application/json")

try {
    $Response = Invoke-RestMethod $Url -Method 'POST' -Headers $headers -Body $Body
} catch {
    New-CmsLogMessage -T Error "Token request failed. $($_.Exception.Message)"
    throw
}

return [CMS.Domain.Models.AuthResponse]$Response
}
}

#####
function New-CmsApiCall
{
    param([Parameter(Mandatory=$true)]
        [string]$BearerToken,
        [Parameter(Mandatory=$true)]
        [string]$BaseUrl,
        [Parameter(Mandatory=$true)]
        [string]$Uri,
        [psobject]$Body,
        [Parameter(Mandatory=$true)]
        [ValidateSet("GET", "POST", "PUT", "DELETE")]
        [string]$Method,
        [bool]$ExpectNotFound=$false)

```

```

end
{
    $Url = ("${$BaseUrl.Trim('/')}/${$Uri.TrimStart('/')").ToLower()
    New-CmsLogMessage -T Info "Processing Api call - $($Method) $($Url)."

    switch ($Method)
    {
        'PUT' {
            if ($null -eq $Body) {
                New-CmsLogMessage -T Error "Api call using $($Method) cannot have an empty
Body parameter."
            } else {
                $Body = $Body | ConvertTo-Json
            }
        }
        'POST' {
            if ($null -eq $Body) {
                New-CmsLogMessage -T Error "Api call using $($Method) cannot have an empty
Body parameter."
            } else {
                $Body = $Body | ConvertTo-Json
            }
        }
    }

    $Headers = New-Object "System.Collections.Generic.Dictionary[[String],[String]]"
    $Headers.Add("Authorization", "Bearer $($BearerToken)")
    $Headers.Add("Content-Type", "application/json")

    try {
        $Response = Invoke-RestMethod $Url -Method $Method -Headers $Headers -Body $Body
        return $Response
    } catch {
        if (!$ExpectNotFound) {
            New-CmsLogMessage -T Error "Api call failed. $($_.Exception.Message)"
            return $Response
        }
    }
}
}

```

```
#####  
# Make Calls  
#####  
# Get Token for the Api  
$Token = Get-CmsBearerToken -EmailAddress $EmailAddress -Password $Password -BaseUrl  
$ApiEndpoint  
if (!$Token) {  
    Write-Host "No token could be retrieved."  
    exit 1  
}  
# Get Subscriptions  
$ApiResponse = New-CmsApiCall -BearerToken $Token.Token -BaseUrl $ApiEndpoint -Uri  
"/subscriptions/" -Method GET  
if ($ApiResponse.Code -ne 200) {  
    Write-Host "Error retrieving subscriptions $($ApiResponse.Errors)."  
    exit 1  
} else {  
    Write-Verbose "Loaded Subscriptions."  
    $Subscriptions = $ApiResponse.Data  
}
```

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