2021

Lyve Rack R1 API Reference Guide

P/N: 1104489-02
Revision: B
June 2021

Notices

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Revision History

Revision History	Description	Release month and year
B	Release	June 2021

1 | CSM API

Paths

/product_version

GET /product_version

Summary

Gets product version and its components.

Responses

Code	Description
200	OK: Product version and components fetched successfully.
400	Bad Request: Invalid request message received.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/login

POST /login

Summary

This API allows login to Admin User, CSM user and S3 user

Parameters

Name	Located in	Description	Required	Schema

User	body	CSM User request	No	{
				
				  username: string
				
				  password: string
				
				}

Responses

Code	Description
200	OK: User logged in successfully.
400	Bad Request: Request body is missing or Username or password is missing.
401	Unauthorized: Username and password combination is incorrect
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/logout

POST /logout

Summary

This API allows to logout the user.

Parameters

Name	Located in	Description	Required	Schema
authorizationr	Header		Yes	→ ← string

Responses

Code	Description
200	OK: User logout successfully.

Code	Description
400	Bad Request: is error is raised for all cases when an entity was not found.
401	Unauthorized: Token has not found or invalid format or session is invalid.
403	Forbidden: This error is raised for all cases when user don't have permissions
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/csm/users

GET /csm/users

Summary

Get CSM user list: CSM user having permission manage and monitor can get CSM users

Parameters

Name	Located in	Description	Required	Schema
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: List of CSM users.
400	Bad Request: Invalid request URL.

Code	Description
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

POST /csm/users

Summary

Create new CSM user: CSM user having permission manage can create new CSM user

Parameters

Name	Located in	Description	Required	Schema

User	body	Create new user request	No	{
				
				  username: string
				
				  password: string
				
				  email: string
				
				  roles: []
				
				}

authorization	header		Yes	→ ← string

Responses

Code	Description
201	User has been created
400	Bad Request: Request body is missing or Invalid arguments

Code	Description
401	Unauthorized: Token has not found or invalid format or session is invalid
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/csm/users/{user_id}

GET /csm/users/{user_id}

Summary

Get CSM user: CSM user having permission manage and monitor can get CSM.

Parameters

Name	Located in	Description	Required	Schema
user_id	path	Specifies the user id	Yes	→ ← string
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: CSM user info fetched successfully
400	Bad Request: Request body missing or S3 account with same name as passed CSM username already exists

Code	Description
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
404	This error is raised for all cases when we don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

PATCH /csm/users/{user_id}

Summary

Update CSM user credentials: CSM user having permission manage can update CSM user

Parameters

Name	Located in	Description	Required	Schema
user_id	path	Specifies the user id	Yes	→ ← string
authorization	header		Yes	→ ← string

Edit csm user	body	Edit CSM user credentials. The 'current_password' property is required for users who change their own password. The superuser can skip this field for all other users	No	→
				 ←
				 {
				   roles: []
				   email: string
				   password: string
				   current_password: string
				 }

Responses

Code	Description
200	OK: User updated successfully
400	Bad Request: Request body missing or Invalid request body
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: is error is raised for all cases when user don't have permissions
404	No Data Found: A specified resource could not be found.

DELETE /csm/users/{user_id}

Summary

Delete csm user: CSM user having permission manage can delete existing CSM.

Parameters

Name	Located in	Description	Required	Schema
user_id	path	Specifies the user id	Yes	→ ← string
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK
400	Bad Request: Request body missing or Invalid request body
401	Unauthorized: Token has not found or invalid format or session is invalid

Code	Description
404	No Data Found: Users Not Found

/permissions

GET /permissions

Summary

Get the User Permissions: Accessible to all the users.

Parameters

Name	Located in	Description	Required	Schema
authorization	Header		Yes	→ ← string

Responses

Code	Description
200	OK
400	Could not get permissions from server,check session
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/s3_accounts

GET /s3_accounts

Summary

Get S3 Accounts: Accessible to CSM users with manage and monitor permissions and S3 account.

Parameters

Name	Located in	Description	Required	Schema
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: List of s3 accounts.
400	Bad Request: An argument is missing or not valid
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

POST /s3_accounts

Summary

Create new S3 Account: Accessible to CSM users with manage permission and S3 account.

Parameters

Name	Located in	Description	Required	Schema
S3 account	body	Create new S3 Account request	No	→ ←

Name	Located in	Description	Required	Schema

				{
				 account_name: string
				 account_email: string
				 password:
				 }

authorization	header		Yes	→ ← string

Responses

Code	Description
200	S3 Account has been created
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
404	No Data Found: A specified resource could not be found.
409	Conflict: The request could not be completed due to a conflict with the current state of the resource.
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/s3_accounts/{s3_account_id}

PATCH /s3_accounts/{s3_account_id}

Summary

Update S3 account password: Accessible to S3 account only.

Parameters

Name	Located in	Description	Required	Schema
S3_account_id	path	Specifies the S3 Account Id	Yes	→ ← `string`
authorization	header		Yes	→ ← `string`

Edit S3 account	Body	Edit S3 account	No	→
				←
				`{`
				` password: string`
				` reset_access_key: Boolean`
				`}`

Responses

Code	Description
200	OK: S3 Account updated successfully
400	Bad Request: Request body is missing
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
404	No Data Found: A specified resource could not be found.

Code	Description
409	Conflict: The request could not be completed due to a conflict with the current state of the resource.
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

DELETE /s3_accounts/{s3_account_id}

Summary

Delete S3 Account: Accessible to S3 account only.

Parameters

Name	Located in	Description	Required	Schema
S3_account_id	Path	Specifies the S3 account id	Yes	→ ← string
authorization	header		Yes	→ ← string

Responses

Code	Description
200	Ok: S3 account deleted successfully.
400	Bad Request: Request body is missing
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: Users Not Found

/s3/access_keys

GET /s3/access_keys

Summary

Get S3 account access keys: Accessible to S3 account only.

Parameters

Name	Located in	Description	Required	Schema
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: S3 Account keys fetched successfully.
400	Bad Request: Invalid request URL
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

POST /s3/access_keys

Summary

Create new S3 account access key: Accessible to S3 account only.

Parameters

Name	Located in	Description	Required	Schema
authorization	header		Yes	→ ← string

Responses

Code	Description
200	Access key has been created
400	Bad Request: Invalid request URL
404	No Data Found: A specified resource could not be found.
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/s3/access_keys/{access_key}

DELETE /s3/access_keys/{access_key}

Summary

Delete S3 account access key: Accessible to S3 account only

Parameters

Name	Located in	Description	Required	Schema
access_key	Path	Specifies the S3 account access key	Yes	→ ← string
authorization	header		Yes	→

Name	Located in	Description	Required	Schema
				← string

Responses

Code	Description
200	Ok: S3 account access key deleted successfully.
400	Bad Request: Invalid request URL
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: Users Not Found

/s3/bucket

GET /s3/bucket

Summary

Get the bucket list: Accessible to S3 account only.

Parameters

Name	Located in	Description	Required	Schema
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Bucket list has been fetched successfully.
400	Bad Request: An argument is missing or not valid
401	Unauthorized: Token has not found or invalid format or session is invalid

Code	Description
403	Forbidden: This error is raised for all cases when user don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

POST /s3/bucket

Summary

Add bucket: Accessible to S3 account only.

Parameters

Name	Located in	Description	Required	Schema
bucket_name	body	Bucket name	No	→ ← undefined
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Bucket created successfully.
400	Bad Request: An argument is missing or not valid
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is

Code	Description
	correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/s3/bucket_policy/{bucket_name

DELETE /s3/bucket_policy/{bucket_name}

Summary

bucket policy delete: Accessible to S3 account only.

Parameters

Name	Located in	Description	Required	Schema
bucket_name	Path	Specifies the bucket name	Yes	→ ← string
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Bucket policy deleted successfully
400	Bad Request: An argument is missing or not valid
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
404	No Data Found: A specified resource could not be found.

GET /s3/bucket_policy/{bucket_name}

Summary

Get Bucket Policy: Accessible to S3 account only.

Parameters

Name	Located in	Description	Required	Schema
bucket_name	Path	Specifies the bucket name	Yes	→ ← string
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Bucket policy fetched successfully.
400	Bad Request: when an invalid response message is received for any of the cli commands.
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

PUT /s3/bucket_policy/{bucket_name}

Summary

Edit Bucket Policy: Accessible to S3 account only

Parameters

Name	Located in	Description	Required	Schema
bucket_name	Path	Specifies the bucket_name	Yes	→ ← `string`
authorization	header		Yes	→ ← `string`

policy	body	Bucket policy request	No	→
				 ←
				 `{`
				 `  policy: string`
				 `}`

Responses

Code	Description
200	Ok: Bucket policy updated successfully.
400	Bad Request: when an invalid response message is received for any of the cli commands.
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: A specified resource could not be found.

/s3/bucket/{bucket_name

DELETE /s3/bucket/{bucket_name}

Summary

bucket delete: Accessible to S3 account only.

Parameters

Name	Located in	Description	Required	Schema
bucket_name	path	Specifies the bucket_name	Yes	→ ← string
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Bucket name deleted successfully
400	Bad Request: Invalid request URL.
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: A specified resource could not be found.

/iam_users

GET /iam_users

Summary
Get IAM users list: Accessible to S3 account only

Parameters

Name	Located in	Description	Required	Schema
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: IAM user list fetched successfully.
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

POST /iam_users

Summary

Create new IAM user: Accessible to S3 account only.

Parameters

Name	Located in	Description	Required	Schema

User	body	Create new user request	No	→
				 ←
				 {
				  username: string
				  password: string
				  require_reset: boolean
				 }

authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: IAM user created successfully.
400	Bad Request: when an invalid response message is received for any of the cli commands.
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: A specified resource could not be found.
409	Conflict: The request could not be completed due to a conflict with the current state of the resource.
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/iam_users/{user_name}

DELETE /iam_users/{user_name}

Summary

Delete IAM user: Accessible to S3 account only

Parameters

Name	Located in	Description	Required	Schema
user_name	Path	Specifies the IAM user name	Yes	→ ← string
authorization	Header		Yes	→ ← string

Responses

Code	Description
200	OK: IAM user deleted successfully.
400	Bad Request: Root IAM user cannot be deleted or Invalid request body
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: A specified resource could not be found.

/s3/access_keys?user_name={user_name}

GET /s3/access_keys?user_name={user_name}

Summary

Get iam user access keys: Accessible to S3 account only

Parameters

Name	Located in	Description	Required	Schema
user_name	Path	Specifies the IAM user name	Yes	→ ← string
authorization	Header		Yes	→ ← string

Responses

Code	Description
200	OK: IAM user access key fetched successfully.
400	Bad Request: when an invalid response message is received for any of the cli commands.

Code	Description
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: A specified resource could not be found.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

POST /s3/access_keys?user_name={user_name}

Summary

Create new iam user access key: Accessible to S3 account only

Parameters

Name	Located in	Description	Required	Schema
user_name	Path	Specifies the IAM user name	Yes	→ ← string
authorization	Header		Yes	→ ← string

Responses

Code	Description
200	Access key has been created
400	Bad Request: when an invalid response message is received for any of the cli commands.
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: A specified resource could not be found.

Code	Description
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/s3/access_keys/{access_key}?user_name={user_name}

DELETE /s3/access_keys/{access_key}?user_name={user_name}

Summary

Delete S3 account access key: Accessible to S3 account only

Parameters

Name	Located in	Description	Required	Schema
access_key	Path	Specifies the S3 account access key	Yes	→ ← string
user_name	Path	Specifies the IAM user name	Yes	→ ← string
authorization	Header		Yes	→ ← string

Responses

Code	Description
200	Ok: IAM user access key deleted successfully.
400	Bad Request: when an invalid response message is received for any of the cli commands.

Code	Description
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: A specified resource could not be found.

/alerts

GET /alerts

Summary

Gets Alerts: Accessible to CSM users having monitor and manage permissions

Parameters

Name	Located in	Description	Required	Schema
sortby	query	Specifies sort by option	Yes	→ ← string
dir	query	Specifies sort direction option	Yes	→ ← string
offset	query	Specifies offset of the result	Yes	→ ← integer
limit	query	Specifies limit for results per page	Yes	→ ← integer
authorization	header		Yes	→ ← string
duration	query	Specifies alert history duration 60s, 5m, 2h or 1d	No	→ ← string
show_all	query	Specifies show all alerts	No	→ ← boolean

Name	Located in	Description	Required	Schema
severity	query	Specifies serverity of alerts	No	→ ← `string`
resolved	query	Show resolved alerts	No	→ ← `boolean`
acknowledged	query	Show acknowledged alerts	No	→ ← `boolean`
show_active	query	Show active alerts	No	→ ← `boolean`

Responses

Code	Description
200	OK: Alert list fetched successfully.
400	Bad Request: Request body missing or invlaid json
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

PATCH /alerts

Summary

Acknowledge Alerts: Accessible to CSM users having manage permission

Parameters

Name	Located in	Description	Required	Schema
Alert_id list	body	Alert id	Yes	→ ← [Undefined]
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Acknowledged Alerts successfully.
400	Bad Request: Request body missing or invlaid json
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
404	No Data Found: A specified resource could not be found.
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/alerts/{alert_id}

GET /alerts/{alert_id}

Summary

Get Alert: Accessible to CSM users having monitor and manage permissions

Parameters

Name	Located in	Description	Required	Schema
Alert_id l	path	Specifies the alert id	Yes	→ ← string
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Alert fetched successfully.
400	Bad Request: Request body missing or invalid json
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
404	No Data Found: A specified resource could not be found.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

PATCH /alerts/{alert_id}

Summary

Edit Alert: Accessible to CSM users having manage permission and it will update the acknowledge flag

Parameters

Name	Located in	Description	Required	Schema
Alert_id	path	Specifies the alert id	Yes	→ ← string

alert	body	Alert request	No	→
				
				←
				
				{
				
				 Acknowledged: boolean
				
				}

authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Acknowledge Alert successfully.
400	Bad Request: Invalid Parameter for alerts
403	Forbidden: This error is raised for all cases when user don't have permissions
404	No Data Found: A specified resource could not be found.
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/alerts_history

GET /alerts_history

Summary

Get alert history: Accessible to CSM users having monitor and manage permissions

Parameters

Name	Located in	Description	Required	Schema
authorization	header		Yes	→ ← `string`
sortby	query	Specifies sort by option	No	→ ← `string`
dir	query	Specifies sort direction option	No	→ ← `string`
offset	query	Specifies offset of the result	No	→ ← `integer`
limit	query	Specifies limit for results per page	No	→ ← `integer`
sensor_info	Query	Filter by sensor info	No	→ ← `string`
start_date	query	Specifies start date	No	→ ← `string`
end_date	query	Specifies end date	No	→ ← `boolean`
duration	query	Specifies alert history duration 60s, 5m, 2h, 1d	No	→ ← `string`

Responses

Code	Description
200	OK: Alerts history fetched successfully.
400	Bad Request: Invalid request message received.
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
404	No Data Found: A specified resource could not be found.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/alerts_history/{alert_id}

GET /alerts_history/{alert_id}

Summary

Get alert history for specific alert: Accessible to CSM users having monitor and manage permissions

Parameters

Name	Located in	Description	Required	Schema
Alert_id	path	Specifies the alert id	Yes	→ ← string
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Alerts history fetched successfully.
400	Bad Request: when an invalid response message is received for any of the cli commands.
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: A specified resource could not be found.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/alerts/{alert_uuid}/comments

GET /alerts/{alert_uuid}/comments

Summary

Get alert comments for specific alert: Accessible to CSM users having monitor and manage permissions.

Parameters

Name	Located in	Description	Required	Schema
alert_uuid	path	Specifies the alert uuid	Yes	→ ← string
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Alert comment fetched successfully.

Code	Description
400	Bad Request: when an invalid response message is received for any of the cli commands.
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: A specified resource could not be found.
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
500	Internal Server Error: When requested resource is not available.

POST /alerts/{alert_uuid}/comments

Summary

Add comments to the Alert: Accessible to CSM users having manage permission.

Parameters

Name	Located in	Description	Required	Schema

comment	body	Add comments to the alert	No	→
				
				←
				
				{
				
				Comment_text:string
				
				}

alert_uuid	path	Specifies the alert id	Yes	→ ← string
authorization	header		Yes	→ ← string

SEAGATE

Responses

Code	Description
200	OK: Comment added successfully
201??	No Content
400	Bad Request: when an invalid response message is received for any of the cli commands.
401	Unauthorized: Token has not found or invalid format or session is invalid
404	No Data Found: A specified resource could not be found.
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/system/health/summary

GET /system/health/summary

Summary

Get Health Summary of the system: Accessible to CSM users having monitor and manage permissions

Parameters

Name	Located in	Description	Required	Schema
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Health Summary of the system fetched successfully.
400	Bad Request: when an invalid response message is received for any of the cli commands.
401	Unauthorized: Token has not found or invalid format or session is invalid
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/system/health/node

GET /system/health/node

Summary

Get Health of nodes: Accessible to CSM users having monitor and manage permissions

Parameters

Name	Located in	Description	Required	Schema
node_id	query	Specifies the node id	No	→ ← string
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Health of the nodes fetched successfully.
400	Bad Request: when an invalid response message is received for any of the cli commands.

Code	Description
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/system/health/view

GET /system/health/view

Summary

Get Health of nodes with alerts: Accessible to CSM users having monitor and manage permissions

Parameters

Name	Located in	Description	Required	Schema
node_id	query	Specifies the node id	No	→ ← string
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK
400	Bad Request: when an invalid response message is received for any of the cli commands.
401	Unauthorized: Token has not found or invalid format or session is invalid

Code	Description
403	Forbidden: This error is raised for all cases when user don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/system/health/resources

/stats

GET /stats

Summary

Get statetics: Accessible to CSM users having monitor and manage permissions.

Parameters

Name	Located in	Description	Required	Schema
panel	query	Panel	No	→ ← string
metric	query	Metric	No	→ ← string
id	query	Stats id	No	→ ← integer
from	query	from (epoch) time	No	→ ← integer
to	query	to (epoch) time	No	→ ← integer
interval	query	Interval (epoch) time	No	→ ← integer

Name	Located in	Description	Required	Schema
total_sample	query	Total sample	No	→ ← `string`
output_format	query	Output format	No	→ ← `string`
authorization	header		Yes	→ ← `string`

Responses

Code	Description
200	OK: statetics are fetched successfully.
400	Bad Request: when an invalid response message is received for any of the cli commands.
401	Unauthorized: Token has not found or invalid format or session is invalid
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: Stats: Invalid metric list

/capacity

GET /capacity

Summary

Get the Storage Capacity: Accessible to CSM users having monitor and manage permissions

Parameters

Name	Located in	Description	Required	Schema
authorization	header		Yes	→ ← `string`

Responses

Code	Description
200	OK: Storage capacity fetched successfully.
400	Bad Request: Invalid unit. Please enter unit from ['KB', 'MB', 'GB', 'TB', 'PB', 'EB', 'ZB', 'YB']. Default unit is: BYTE
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/auditlogs/show/{component}

GET /auditlogs/show/{component}

Summary

Get Audit logs: Accessible to CSM users having monitor and manage permissions

Parameters

Name	Located in	Description	Required	Schema
component	path	Specifies the component (csm or s3)	Yes	→ ← string
start_date	query	Epoch time	Yes	→ ← integer
end_date	query	Epoch time	Yes	→ ← integer
authorization	header		Yes	→ ← string

Responses

Code	Description
200	OK: Audit logs are fetched successfully.
400	Bad Request: Invalid Range query.
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
404	No Data Found: A specified resource could not be found.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

/auditlogs/download/{component}

GET /auditlogs/download/{component}

Summary

Download Audit logs: Accessible to CSM users having monitor and manage permissions

Parameters

Name	Located in	Description	Required	Schema
component	path	Specifies the component (csm or s3)	Yes	→ ← string
start_date	query	Epoch time	Yes	→ ← integer
end_date	query	Epoch time	Yes	→ ← integer

Name	Located in	Description	Required	Schema
authorization	header		Yes	→ ← `string`

Responses

Code	Description
200	OK: Audit logs downloaded successfully.
400	Bad Request: Invalid Range query.
401	Unauthorized: Token has not found or invalid format or session is invalid
403	Forbidden: This error is raised for all cases when user don't have permissions
404	No Data Found: A specified resource could not be found.
422	Unprocessable Entity: server understands the content type of the request entity, and the syntax of the request entity is correct, but it was unable to process the contained instructions.
499	Call Cancelled: Call cancelled by client.
500	Internal Server Error: When requested resource is not available.

2 | S3 API

Supported APIs

Note

All operations listed in the tables below, are S3 compliant.

Table 1: Basic Operations

Service Operations	Bucket Operations	Operation on Objects
Get	Get Bucket (List Objects)	Get Object
	Put Bucket	Put Object
	Delete Bucket	Delete Object
	Head Bucket	Head Object

Table 2: Moderately Complex Operations

Note

Operations have limited support for groups.

Bucket Opertaion	Operation on Objects
Get Bucket ACL	Get Object ACL
Put Bucket ACL	Put Object ACL
List Multipart Uploads	Delete Multiple Objects

Table 2.1: Additional Features

Additional Features
Initiate Multipart Upload
Upload Part
Complete Multipart Upload
Abort Multipart Upload

Table 3: Advance Complex Operations

Bucket Operations
Get Bucket Location
Get Bucket Tagging
Put Bucket Tagging
Delete Bucket Tagging
Get Bucket Policy (Limited Condition Support)
Put Bucket Policy
Delete Bucket Policy

Supported Service API
List all your buckets

```
aws s3 ls
```

Supported Operations/APIs on Bucket

GetBucket (List objects in the specified bucket)

```
aws s3 ls s3://<your_bucket>
aws s3api list-objects --bucket <your_bucket>
aws s3api list-objects-v2 --bucket <your_bucket>
```

Put bucket

```
aws s3 mb s3://<your_bucket>
aws s3api create-bucket --bucket <your_bucket>
```

Head bucket

```
aws s3api head-bucket --bucket <your_bucket>
```

Delete bucket

```
aws s3 rb s3://<your_bucket>
aws s3api delete-bucket --bucket <your_bucket>
```

Put Bucket ACL

```
aws s3api put-bucket-acl --bucket <your_bucket>
```

Get Bucket ACL

```
aws s3api get-bucket-acl --bucket <your_bucket>
```

Multipart uploads

Create multipart upload in bucket

```
aws s3api create-multipart-upload –bucket <your_bucket> --key <key>
```

Upload part

```
aws s3api upload-part --bucket <your_bucket> --key <key> --part-number 1 -
-body <part>
```

Lists parts of a multipart upload

```
aws s3api list-parts --bucket <your_bucket> --key <key> --upload-id <id>
```

Abort/Complete multipart

```
aws s3api complete-multipart-upload --multipart-upload <mpustruct_file> --
bucket <your_bucket> --key <key> --upload-id <id>
```

```
aws s3api abort-multipart-upload --bucket <your_bucket> --key <key> --
upload-id <id
```

List in-progress multipart uploads in a bucket
```
aws s3api list-multipart-uploads --bucket <your_bucket>
```

Put Bucket policy
```
aws s3api put-bucket-policy --bucket <your_bucket> --policy
<policy_json_file>
```

Get Bucket policy
```
aws s3api get-bucket-policy --bucket <your_bucket>
```

Delete bucket policy
```
aws s3api delete-bucket-policy --bucket <your_bucket>
```

Put Bucket tagging
```
aws s3api put-bucket-tagging --bucket <your_bucket> --tagging
<tagging_json_file>
```

Get Bucket tagging
```
aws s3api get-bucket-tagging --bucket <your_bucket>
```

Delete bucket tagging
```
aws s3api delete-bucket-tagging --bucket <your_bucket>
```

Get bucket location
```
aws s3api get-bucket-location --bucket <your_bucket>
```

Supported Operations/APIs on Object

Put Object

```
aws s3api put-object --bucket <your_bucket> --key <key> --body <file>
aws s3 cp <local_file> s3://<your_bucket>/<key>
```

Get Object

```
aws s3api get-object --bucket <your_bucket> --key <key> <save_to_file>
aws s3 cp s3://<your_bucket>/<key> <local_file>
```

Delete Object

```
aws s3api delete-object --bucket <your_bucket> --key <key>
```

Head Object

```
aws s3api head-object --bucket <your_bucket> --key <key>
```

Put Object ACL

```
aws s3api put-object-acl --bucket <your_bucket> --key <key> --grant-*
emailaddress=<email>
```

Get Object ACL

```
aws s3api get-object-acl --bucket <your_bucket> --key <key>
```

Delete multiple objects

```
aws s3api delete-objects --bucket <your_bucket> --delete
<del_struct_json_file>
```

Put Object tagging

```
aws s3api put-object-tagging --bucket <your_bucket> --key <key> --tagging
<tagging_json_struct>
```

Get Object tagging

```
aws s3api get-object-tagging --bucket <your_bucket> --key <key>
```

Delete Object tagging

```
aws s3api delete-object-tagging --bucket <your_bucket> --key <key>
```

S3 IAM APIs (using client tool - s3iamcli)

Create an account

```
s3iamcli CreateAccount -n <Account Name> -e <Email Id>
```

Delete an account

```
s3iamcli DeleteAccount -n <Account Name>
```

List accounts

```
s3iamcli ListAccounts
```

Create IAM User, with optional path

```
s3iamcli CreateUser -n <User Name> [-p path]
```

Change/update the name of existing IAM user

```
s3iamcli UpdateUser -n <Old User Name> --new_user <New User Name> [-p <New
Path>]
```

Delete IAM user

```
s3iamcli DeleteUser -n <User Name>
```

Create access key for IAM user

```
s3iamcli CreateAccessKey -n <User Name>
```

List access keys/secret keys of IAM user

```
s3iamcli ListAccessKeys -n <User Name>
```

Delete access key of IAM user

```
s3iamcli DeleteAccesskey -k <Access Key Id> -n <User Name>
```

Update the status of access key of IAM user (Change status to active or inactive)

```
s3iamcli UpdateAccessKey -k <Access Key Id> -s <Active/Inactive> -n <User
Name>
```

List all IAM users of current account, matching the path prefix

```
s3iamcli ListUsers [-p <Path Prefix>]
```

Change the password of an IAM user

```
s3iamcli ChangePassword --old_password <Old User Password> --new_password
<New User Password>
```

Create temporary authentication credential for an account or IAM user

```
s3iamcli GetTempAuthCredentials -a <Account Name> --password <Account
Password> [-d <Duration in seconds>] [-n <User Name>]
```

Creates a password for the specified account

```
s3iamcli CreateAccountLoginProfile -n <Account Name> --password <Account
Password> [--password-reset-required |--no-password-reset-required]
```

Updates/changes password for the specified account

```
UpdateAccountLoginProfile -n <Account Name> [--password <Account
Password>] [--password-reset-required|--no-password-reset-required]
```

Retrieves the account name and password-creation date for the specified account

```
s3iamcli GetAccountLoginProfile -n <Account Name>
```

Creates a password for the specified IAM user

```
s3iamcli CreateUserLoginProfile -n <User Name> --password <User Password>
[--password-reset-required |--no-password-reset-required]
```

Updates/changes password for the specified IAM user

```
s3iamcli UpdateUserLoginProfile -n <User Name> [--password <User
Password>] [--password-reset-required | --no-password-reset-required]
```

Retrieves the user name and password-creation date for the specified IAM user

```
s3iamcli GetUserLoginProfile -n <User Name>
```