

Customer Endpoints

List Customer Details

Returns information about your customer entity.

GET

/customers/

Request Example

```
curl -X GET \  
-H "X-Frame-ClientId: ${client_id}" \  
-H "X-Frame-Timestamp: ${timestamp}" \  
-H "X-Frame-Signature: ${signature}" \  
"https://api.console.nutanix.com/v1/customers/"
```

Response Example

```
{  
  "active": true,  
  "available_applications": ["frame"],  
  "billing_subscriptions": null,  
  "description": "Internal, Frame Support",  
  "extra_features": ["deployment_group_tag", "compatibility_matrix_tag"],  
  "id": "d3e7d4e0-5ab2-47cf-9f9c-0b02999931e7",  
  "name": "Frame Support",  
  "notes": "Frame Support Customer, used for all things Frame!",  
  "owner_email": null,  
  "tenant_domain": null,  
  "url_slug": "frame-support",  
  "website": null  
}
```

Status: 200 OK

List Customer Accounts

Returns a list of all accounts across all organizations.

GET

/customers/:customer_id/accounts

Request Parameters

Name	Description	Param Type	Data Type	Required
name	Name or portion of name you would like to use for searching/filtering.	URL	String	False
active	Filters the accounts based on their "active" status. Useful for filtering out older terminated accounts.	Search Query	String	False
organization_id	Filters accounts list based on the provided Organization ID.	Search Query	String	False
offset	Used to specify where to start a Audit Trails query. Must be used in conjunction with the limit parameter.	Search Query	Integer (String)	False
limit	Used to specify the "page size" of the Audit Trails query. Must be used in conjunction with the offset parameter.	Search Query	Integer (String)	False
order	Specifies the order of the results. Use "asc" for ascending order, and "desc" for descending order.	Search Query	String	False

Name	Description	Param Type	Data Type	Required
order_by	Specifies the field of which the ordering should occur. For example, "session_start", "session_duration", etc.	Search Query	String	False

Request Example

```
curl -X GET \
-H "X-Frame-ClientId: ${client_id}" \
-H "X-Frame-Timestamp: ${timestamp}" \
-H "X-Frame-Signature: ${signature}" \
"https://api.console.nutanix.com/v1/customers/${customer_id}/accounts?active=true"
```

Response Example

```
[
  {
    "active": true,
    "description": "Kitchen Toaster API backplane",
    "id": "54aaf078-8c03-4c75-8cda-2fc4ce661f22",
    "inserted_at": "2021-07-19T17:57:36.221864Z",
    "kind": "frame",
    "last_publish": "2022-12-20T20:43:03Z",
    "name": "Example Account",
    "notes": null,
    "url_slug": "example-account-slug",
    "website": null
  }
  // ... more accounts
]
```

```
Status: 200 OK
```

List Customer Audit Trails

Returns Audit Trails for an account, constrained by a date range and a number of ways to filter & search for granular queries.

GET

`/customers/:customer_id/audit-trails`

Request Parameters

Name	Description	Param Type	Data Type	Required
customer_id	Your Nutanix Customer ID	URL	String	True
search	Filters results if the provided string matches against a user's full name, email, idp, or the Audit Trail kind.	Search Query	String	False
kind	Filters Audit Trails by wildcard matching against the supplied string. For example, a kind of "launchpad" will return Audit Trails for both createLaunchpad and updateLaunchpad actions.	Search Query	String	False
from_date	The beginning date range for the query. The date needs to be an ISO 8601 UTC string (with the "Z" suffix). For example: "2021-12-25T23:20:58.128Z"	Search Query	ISO 8601 UTC String	False
to_date	The ending date range for the query. The date needs to be an ISO 8601 UTC string (with the "Z" suffix). For example: "2021-12-25T23:20:58.128Z"	Search Query	ISO 8601 UTC String	False

Name	Description	Param Type	Data Type	Required
offset	Used to specify where to start a Audit Trails query. Must be used in conjunction with the limit parameter.	Search Query	Integer (String)	False
limit	Used to specify the “page size” of the Audit Trails query. Must be used in conjunction with the offset parameter.	Search Query	Integer (String)	False
order	Specifies the order of the results. Use “asc” for ascending order, and “desc” for descending order.	Search Query	String	False
order_by	Specifies the field of which the ordering should occur. For example, “session_start”, “session_duration”, etc.	Search Query	String	False

Request Example

```
curl -X GET \
-H "X-Frame-ClientId: ${client_id}" \
-H "X-Frame-Timestamp: ${timestamp}" \
-H "X-Frame-Signature: ${signature}" \
"https://api.console.nutanix.com/v1/customers/${customer_id}/audit-trails?search=jason.thompson@nutanix.com&kind=launchpad&limit=5&offset=0&from_date={{from_date}}&to_date={{to_date}}&order_by=inserted_at&order=desc"
```

Response Example

```
[
  {
    "id": "7c3dee57-5a7b-4211-a55d-7d5b8e5f595b",
    "user_first_name": "Jason",
    "user_last_name": "Thompson",
    "user_idp": "example-idp-name",
    "user_email": "jason.thompson@nutanix.com",
    "kind": "updateLaunchpad",
    "account_id": "b00636bf-4f08-404e-a7ba-3c2aaa173335",
    "organization_id": "86bcea89-389f-496a-3c75-1df0ce8d96ca",
    "customer_id": "b3e7d4e0-5ab2-43cf-9f9c-0c02909931e1",
    "inserted_at": "2021-10-15T20:49:13.377350Z"
  },
  {
    "id": "4f62a8e4-1ab4-430b-9f4f-96fa77ff24f5",
    "user_first_name": "Jason",
    "user_last_name": "Thompson",
    "user_idp": "example-idp-name",
    "user_email": "jason.thompson@nutanix.com",
    "kind": "createLaunchpad",
    "account_id": "b00636bf-4f08-404e-a7ba-3c2aaa173335",
    "organization_id": "86bcea89-389f-496a-3c75-1df0ce8d96ca",
    "customer_id": "b3e7d4e0-5ab2-43cf-9f9c-0c02909931e1",
    "inserted_at": "2021-10-15T20:49:09.833114Z"
  }
]
// ... more Audit Trails
]
```

Status: 200 OK

List Customer Session Trails

Returns Session Trails based on a specified time frame and filters.

GET

/customers/:customer_id/session-trails

Request Parameters

Name	Description	Param Type	Data Type	Required
customer_id	Your Nutanix Customer ID	URL	String	True

Name	Description	Param Type	Data Type	Required
search	Filters results if the provided string matches against Server ID, Session ID, email address, and a user's full name.	Search Query	String	False
session_start	The beginning date range for the query. The date needs to be an ISO 8601 UTC string (with the "Z" suffix). For example: "2021-12-25T23:20:58.128Z"	Search Query	ISO 8601 UTC String	False
session_end	The ending date range for the query. The date needs to be an ISO 8601 UTC string (with the "Z" suffix). For example: "2021-12-25T23:20:58.128Z"	Search Query	ISO 8601 UTC String	False
instance_type	Filters Session Trails based on a specific instance type ID.	Search Query	String	False
pool_group_type	Filters Session Trails based on the pool group server type: sandbox, production, utility, persistent_desktop_production, persistent_desktop_shadow.	Search Query	String	False
pool_id	Filters Session Trails based on provided instance type's pool ID.	Search Query	String	False

Name	Description	Param Type	Data Type	Required
offset	Used to specify where to start a Session Trails query. Must be used in conjunction with the limit parameter.	Search Query	Integer (String)	False
limit	Used to specify the "page size" of the Session Trails query. Must be used in conjunction with the offset parameter.	Search Query	Integer (String)	False
order	Specifies the order of the results. Use "asc" for ascending order, and "desc" for descending order.	Search Query	String	False
order_by	Specifies the field of which the ordering should occur. For example, "session_start", "session_duration", etc.	Search Query	String	False

Request Example

```
curl -X GET \
-H "X-Frame-ClientId: ${client_id}" \
-H "X-Frame-Timestamp: ${timestamp}" \
-H "X-Frame-Signature: ${signature}" \
"https://api.console.nutanix.com/v1/customers/${customer_id}/session-trails?limit=50&offset=0&order=desc&order_by=session_start"
```

Response Example

```
[
  {
    "account_id": "084ab7d0-e4ca-4dea-932a-45bf33f02088",
    "bandwidth_kbps_avg": 15921.05,
    "bandwidth_kbps_max": 16128,
    "bandwidth_kbps_min": 14024,
    "city": "Tehama",
    "client_ip": "123.32.145.255",
    "customer_id": "d3e7d4e0-5ab2-47cf-9f9c-0b02999931e7",
    "distance": 2369.002238311968,
    "fail_description": null,
    "framerate_ps_avg": 19.74,
    "framerate_ps_max": 20,
    "framerate_ps_min": 10,
    "id": "b970ec31-ca07-48c9-8b56-4547a7b1a9f8",
    "instance_type": "t2.large",
    "latency_ms_avg": 110.36,
    "latency_ms_max": 132,
    "latency_ms_min": 106,
    "organization_id": "2fb210e0-e931-4c62-83fd-b31fe13468ca",
    "pool_group_type": "sandbox",
    "pool_id": "d54b760c-956a-487b-a675-e113677fe871",
    "pool_instance_type": {
      "bare_metal": null,
      "display_name": "Air 8GB",
      "gpu": "None",
      "id": "gateway-prod.5",
      "name": "t2.large",
      "ram": 8,
      "vcpu": 2
    },
    "server_id": "gateway-prod.5232637",
    "session_duration": 2391,
    "session_end": "2021-02-25T23:17:27.000000Z",
    "session_id": "gateway-prod.nMOARz25k9LDmGN0",
    "session_start": "2021-02-25T23:15:56.000000Z",
    "user_email": "example.user@company.com",
    "user_first_name": "Example",
    "user_id": "52b19f2e-c8ae-4f12-beab-f2838ce8dce9",
    "user_idp": "example-idp",
    "user_last_name": "User"
  }
]
```

Status: 200 OK

List Customer API Authorization Rules

Returns all Customer API keys that have been generated and their associated permissions.

GET`/customers/:customer_id/api_authorization_rules`

Request Example

```
curl -X GET \  
-H "X-Frame-ClientId: ${client_id}" \  
-H "X-Frame-Timestamp: ${timestamp}" \  
-H "X-Frame-Signature: ${signature}" \  
"https://api.console.nutanix.com/v1/customers/${customer_id}/api_authorization_rules"
```

Response Example

```
[  
  {  
    "api_authorization_id": "c3103e65-6add-4fd1-abc3-2c348235cd40",  
    "credentials": [],  
    "id": 53,  
    "name": "ExampleA Dev Environment API credentials",  
    "roles": [  
      {  
        "id": "0f77adc8-d9e5-4e40-a900-358b54b6c8f8",  
        "role": {  
          "applicable_on": "customer",  
          "category": null,  
          "description": null,  
          "id": "6ae133ae-a9cb-4160-1337-e904f97293d5",  
          "name": "Customer Administrator",  
          "permissions": [  
            "cpanel_mutation_delete_backup",  
            "cpanel_list_virtual_networks_organization_cloud_services",  
            "cpanel_launchpad",  
            "cpanel_account_authentication_settings",  
            "cpanel_launchpad_session_settings",  
            "cpanel_mutation_start_session_production",  
            "cpanel_mutation_delete_google_authorization_rule",  
            "cpanel_customer_authorization_rule",  
            "cpanel_mutation_update_launchpad_session_settings",  
            "cpanel_account_authorization_rules",  
            "cpanel_cluster_host",  
            "cpanel_customer_audit_trail",  
            "cpanel_account",  
            "cpanel_organization_api_authorization",  
            "cpanel_mutation_dismiss_pool_alert",  
            "cpanel_mutation_update_cluster_aos_tier",  
            "cpanel_mutation_update_account_general_settings"  
            // ... more permissions  
          ]  
        }  
      }  
    ]  
  }  
]
```

```
]
}
]
```

```
Status: 200 OK
```

List Customer Cloud Services

Returns a list of **registered Cloud Service Providers** configured with your Frame Customer entity.

GET

```
/customers/:customer_id/cloud_services
```

Request Parameters

Parameter	Description	Param Type	Data Type	Required
id	Your Nutanix Customer ID.	URL	String	True
cloud_provider_id	The Frame cloud provider ID.	Search Query	String	True
active	Lists cloud services based on their "active" status.	Search Query	Boolean	False
omit_default	If true, omits Frame's default Cloud Services from the results.	Search Query	Boolean	False

Request Example

```
curl -X GET \
-H "X-Frame-ClientId: ${client_id}" \
-H "X-Frame-Timestamp: ${timestamp}" \
-H "X-Frame-Signature: ${signature}" \
"https://api.console.nutanix.com/v1/customers/${customer_id}/cloud_services?active=true"
```

Response Example

```
[
  {
    "active": false,
    "cloud_account_id": "192964173893",
    "cloud_provider_display_name": "AWS",
    "cloud_provider_id": "gateway-prod.2",
    "cloud_provider_name": "amazon",
    "context": "customer",
    "creation_date": "2019-06-11T20:25:33Z",
    "datacenters": [],
    "display_name": "Frame Support AWS Account",
    "external_id": null,
    "gateway": "gateway-prod",
    "id": "gateway-prod.459",
    "is_default": false,
    "is_provider_default": false,
    "name": "Frame Support AWS Account",
    "owner_id": "d3e7d4e0-5ab2-47cf-9f9c-0b02999931e7",
    "properties": {
      "cloud_account_id": "192964173893"
    },
    "status": "ready",
    "supported_datacenter_ids": null,
    "supported_types": ["frame-high"]
  }
]
```

```
Status: 200 "OK"
```

List Customer Elasticity

Returns information on all customer instance elasticity.

GET

```
/customers/:customer_id/elasticity
```

Request Example

```
curl -X GET \
-H "X-Frame-ClientId: ${client_id}" \
-H "X-Frame-Timestamp: ${timestamp}" \
-H "X-Frame-Signature: ${signature}" \
"https://api.console.nutanix.com/v1/customers/${customer_id}/elasticity"
```

Response Example

```
{
  "buffer_servers": 30,
  "max_servers": 250,
  "min_servers": 150
}
```

```
Status: 200 OK
```

List Customer Settings

Returns all customer entity settings.

GET

/customers/:customer_id/settings

Request Example

```
curl -X GET \
-H "X-Frame-ClientId: ${client_id}" \
-H "X-Frame-Timestamp: ${timestamp}" \
-H "X-Frame-Signature: ${signature}" \
"https://api.console.nutanix.com/v1/customers/${customer_id}/settings"
```

Response Example

```
{
  "authorized_nutanix_personnel": [
    "jason.thompson@nutanix.com",
    "alex.fontaine@nutanix.com",
    "stuart.allen@nutanix.com"
  ],
  "can_frame_account_support_start_session": null,
  "frame_cloud_account_allowed": false,
  "frame_support_admin_access": "full_access",
  "is_frame_support_customer_admin": true,
  "is_generate_session_report_enabled": false,
  "is_light_publish_enabled": false,
  "is_login_banner_enabled": false,
}
```

```
"is_persistent_desktops_backups_enabled": true,
"is_terminal_banner_enabled": false,
"light_publish_settings": {
  "threshold": 10
},
"login_banner_settings": null,
"max_concurrency": 160,
"max_concurrency_per_account": null,
"max_monthly_credits_usage": null,
"max_monthly_credits_usage_description": null,
"max_utility_pools_per_account": 50,
"note": null,
"notification_center_settings": {
  "email_addresses": null,
  "is_send_notification_emails_enabled": null,
  "notify_on_critical": null,
  "notify_on_info": null,
  "notify_on_warning": null
},
"terminal_banner_settings": null
}
```

Status: 200 OK

List Customer Overall Usage

Returns information on all customer entity utilization.

GET

/customers/:customer_id/usage

Request Parameters

Name	Description	Param Type	Data Type	Required
id	Your Nutanix Customer ID	URL	String	True

Name	Description	Param Type	Data Type	Required
from_date	The beginning date range for the query. The date needs to be an ISO 8601 UTC string (with the "Z" suffix). For example: "2021-12-25T23:20:58.128Z"	Search Query	ISO 8601 UTC String	False
to_date	The ending date range for the query. The date needs to be an ISO 8601 UTC string (with the "Z" suffix). For example: "2021-12-25T23:20:58.128Z"	Search Query	ISO 8601 UTC String	False
resolution_type	Resolution Type: by_hour , by_day , by_month , by_year	Search Query	String	False
server_type	Filters query based on a specific server ID.	Search Query	String	False
pool_id	Filters query based on provided instance type's pool ID.	Search Query	String	False
instance_type_id	Filters the usage by an instance type's "external" ID, e.g. "gateway-prod.3".	Search Query	String	False
datacenter_id	Limits the results to a specific Datacenter by ID.	Search Query	String	False
skip_if_byo_account	True/False boolean value determining if BYO results should be returned.	Search Query	Boolean	False

Request Example

```
curl -X GET \  
-H "X-Frame-ClientId: ${client_id}" \  
-H "X-Frame-Timestamp: ${timestamp}" \  
-H "X-Frame-Signature: ${signature}" \  
"https://api.console.nutanix.com/v1/customers/${customer_id}/usage?from_date=${from_date}&to_date=${to_date}"
```

Response Example

```
{  
  "data": [  
    {  
      "account": null,  
      "account_external_id": "gateway-prod.35917",  
      "usage": [  
        {  
          "datacenter": null,  
          "datacenter_id": "gateway-prod.1",  
          "hours_used": 1,  
          "instance_type": null,  
          "instance_type_id": "gateway-prod.3152",  
          "server_type": "production",  
          "time": 1626454800000  
        }  
        // ... more usage data  
      ]  
    }  
    // ... more accounts and usage  
  ],  
  "total": 43533  
}
```

```
Status: 200 OK
```

List Customer Disk Volume Usage

Returns information on all customer entity disk volume utilization.

GET

```
/customers/:customer_id/disk_volume_usage?from_date=X&to_date=Y
```

Request Parameters

Name	Description	Param Type	Data Type	Required
customer_id	Your Nutanix Customer ID.	URL	String	True
from_date	The beginning date range for the query.	The date needs to be an ISO 8601 UTC string (with the "Z" suffix). For example: "2021-12-25T23:20:58.128Z"	YYYY-MM-DD Date string	False
to_date	The ending date range for the query.	The date needs to be an ISO 8601 UTC string (with the "Z" suffix). For example: "2021-12-25T23:20:58.128Z"	YYYY-MM-DD Date string	False
resolution_type	Resolution Type: by_hour , by_day , by_month , by_year	Search Query	String	False
server_type	Server Type: sandbox, production, utility, persistent_desktop_ production, persistent_desktop_ shadow	Search Query	String	False
disk_volume_type_id	Disk Volume Type: all, standard, gp2, io1	Search Query	String	False
datacenter_id	Limits the results to a specific Datacenter ID number.	Search Query	String	False
skip_if_byo_account	True/False boolean value determining if BYO results should be returned.	Search Query	Boolean	False

Request Example

```
curl -X GET \  
-H "X-Frame-ClientId: ${client_id}" \  
-H "X-Frame-Timestamp: ${timestamp}" \  
-H "X-Frame-Signature: ${signature}" \  
"https://api.console.nutanix.com/v1/customers/${customer_id}/disk_volume_usage?from_date  
=${from_date}&to_date=${to_date}"
```

Response Example

```
{  
  "data": [  
    {  
      "account": null,  
      "account_external_id": "gateway-prod.1791",  
      "usage": [  
        {  
          "datacenter": null,  
          "datacenter_id": "gateway-prod.3",  
          "disk_volume_size_used": 180,  
          "disk_volume_type_id": "gp2",  
          "hours_used": 36,  
          "time": 1625101200000  
        }  
        // ... more usage data for this account  
      ]  
    }  
    // ... more accounts and their usage  
  ],  
  "total": 758884  
}
```

Status: 200 OK

List Customer Master Images

Returns information on all customer master images.

GET

/customers/:customer_id/cloud_services/:external_cloud_service_id/master_images?external_c
ata_center_id=XYZ

Request Parameters

Parameter	Description	Param Type	Data Type	Required
external_data_center_id	This ID represents a Frame "external" datacenter ID.	Search Query	String	False

Request Example

```
curl -X GET \
-H "X-Frame-ClientId: ${client_id}" \
-H "X-Frame-Timestamp: ${timestamp}" \
-H "X-Frame-Signature: ${signature}" \
"https://api.console.nutanix.com/v1/customers/${customer_id}/cloud_services/${external_c
loud_service_id}/master_images?external_data_center_id=${external_data_center_id}"
```

Response Example

```
[
  {
    "description": "Frame Master Image mif:1, v:0, date:2020-01-28 09:30:10",
    "id": "gateway-prod.15474",
    "instance_types": [
      {
        "display_name": "Air 4GB",
        "external_id": "gateway-prod.1",
        "gpu": "None",
        "id": "gateway-prod.1",
        "name": "t2.medium",
        "ram": 4,
        "vcpu": 2
      }
    ],
    "machine_image_family": {
      "display_name": "Windows Server 2016 (G4)",
      "id": "gateway-prod.xxx",
      "name": "FrameAWSWindows20126G4"
    },
    "master_image_copy_required": null
  },
  // ... more master images
]
```

```
Status: 200 OK
```

List Customer User Activity

Returns statistical user activity information for the specified Customer constrained by a date range. Can be ordered by passing a string parameter as well as exclude specified user IDPs.

GET

`/customers/:customer_id/user_activities?from_date=X&to_date=Y`

Request Parameters

Name	Description	Param Type	Data Type	Required
customer_id	Your Nutanix Customer ID	URL	String	True
from_date	The beginning date range for the query.	Search Query	YYYY-MM-DD Date string	True
to_date	The ending date range for the query.	Search Query	YYYY-MM-DD Date string	True
order	Specifies the order of the results. Use "asc" for ascending order, and "desc" for descending order.	Search Query	String	False
order_by	Specifies the field of which the ordering should occur. For example, "session_start", "session_duration", etc.	Search Query	String	False
skip_user_idps	User Identity Providers to skip.	Search Query	Array (String)	False

Request Example

```
curl -X GET \  
-H "X-Frame-ClientId: ${client_id}" \  
-H "X-Frame-Timestamp: ${timestamp}" \  
-H "X-Frame-Signature: ${signature}" \  

```

```
"https://api.console.nutanix.com/v1/customers/${customer_id}/user_activities?from_date=${from_date}&to_date=${to_date}&skip_user_idps[]=example-okta-admins&skip_user_idps[]=example-okta-dev"
```

Response Example

```
{
  "data": [
    {
      "access_date": "2022-02-01",
      "access_datetime": "2022-02-01T21:11:00.398870Z",
      "account_id": "0e52b11b-23bf-411e-a070-bc0ea014cbc2",
      "customer_id": "6ba31e38-1735-4274-a58e-6fb8c662e425",
      "organization_id": "bc24563d-375b-49fb-8f15-1682b8bc6deb",
      "user_email": "dontcallme.shirley@example.com",
      "user_first_name": "Shirley",
      "user_id": "20acd3a2-b455-4dca-b22b-520e16079e11",
      "user_idp": "example-okta-workforce",
      "user_last_name": "Dontcallme"
    }
    // ... more User Activities
  ],
  "total": 66866,
  "total_unique": 8133
}
```

```
Status: 200 OK
```

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