

Infrastructure Endpoints

List Cloud Providers

Returns a list of available Cloud Providers. These are Frame IaaS cloud providers, such as Amazon, Azure, and Google, using Frame-managed subscriptions.

GET

/cloud_providers

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/cloud_providers"
```

Response Example

```
[  
  {  
    "byo_compatible": true,  
    "datacenters": null,  
    "display_name": "AWS",  
    "external_id": "gateway-prod.2",  
    "formation_url": null,  
    "name": "amazon"  
  },  
  {  
    "byo_compatible": true,  
    "datacenters": null,  
    "display_name": "Azure",  
    "external_id": "gateway-prod.4",  
    "formation_url": null,  
    "name": "azure"  
  },  
  {  
    "byo_compatible": true,  
    "datacenters": null,  
    "display_name": "Google",
```

```
"external_id": "gateway-prod.5",
"formation_url":
"https://console.cloud.google.com/cloudshell/editor?cloudshell_git_repo=https%3A%2F%2Fgithub.com%2Fmainframe2%2Fgcp-byo-cloud-shell-
deployment.git&cloudshell_git_branch=prod_role_deployment&cloudshell_open_in_editor=depl
oy.sh",
"name": "google"
},
{
"byo_compatible": true,
"datacenters": null,
"display_name": "Nutanix-AHV",
"external_id": "gateway-prod.3",
"formation_url": null,
"name": "nutanix"
}
]
```

Status: 200 "OK"

List Datacenters

Provides a list of datacenters associated with the cloud service along with what Frame Image Families and Instance Types are available in each datacenter.

GET

/datacenters

Request Parameters

Parameter	Description	Param Type	Data Type	Required
external_cloud_service_id	Filters results based on the ID of a Cloud Service provider (BYO Infrastructure). If you're not using Frame IaaS and you instead brought your own cloud provider, this is what you want.	Search Query	String	False

Parameter	Description	Param Type	Data Type	Required
external_cloud_provider_id	Filters results based on the Frame IaaS Cloud Provider ID for AWS, Azure, GCP, or Nutanix.	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/datacenters?external_cloud_service_id=gateway-  
prod.1337"
```

Response Example

```
[  
  {  
    "availability_zones": [  
      "us-east-1a",  
      "us-east-1b",  
      "us-east-1c",  
      "us-east-1d",  
      "us-east-1e",  
      "us-east-1f"  
    ],  
    "bare_metal": true,  
    "configured": null,  
    "display_name": "Northern Virginia",  
    "geo_lat": 39.043611,  
    "geo_long": -77.4875,  
    "id": "gateway-prod.1",  
    "image_families": [],  
    "name": "aws-va",  
    "region": "us-east-1"  
  }  
  // ...  
]
```

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

List Image Families

Returns all image families and their supported instance types.

GET

/image_families

Request Parameters

Parameter	Description	Param Type	Data Type	Required
cloud_provider_name	Filter results by the Cloud Provider's name, e.g. "amazon", "azure", "google", or "nutanix".	Search Query	String	False
byo	Determines whether or not to filter by BYO (Bring your own infrastructure) or not.	Search Query	Boolean	False

Request Example

```
curl -X GET \  
-H "X-Frame-ClientId: ${client_id}" \  
-H "X-Frame-Timestamp: ${timestamp}" \  
-H "X-Frame-Signature: ${signature}" \  
"https://api.console.nutanix.com/v1/image_families?external_data_center_id=${external_datacenter_id}&cloud_provider_name=amazon"
```

Response Example

```
[  
  {  
    "display_name": "Windows Server 2016",  
    "external_id": "gateway-prod.x",  
    "id": "gateway-prod.x",  
    "instance_types": [  
      {  
        "display_name": "Air 4GB",  
        "external_id": "gateway-prod.x",
```

```
    "gpu": "None",
    "id": "gateway-prod.x",
    "name": "t2.medium",
    "ram": 4,
    "vcpu": 2
  }
],
"master_image_copy_required": false,
"name": "WindowsServer2016"
}
// ...
]
```

Status: 200 OK

List Cloud Services

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

GET

/cloud_services

Request Parameters

Name	Description	Param Type	Data Type	Required
organization_id	Filters results based on a provided Nutanix Organization ID.	Search Query	String	True
name	Filters results based on a Cloud Service's "name" field.	Search Query	String	False
cloud_provider_name	Filters results based on the specified cloud provider: amazon, azure, google, or nutanix	Search Query	String	False

Name	Description	Param Type	Data Type	Required
active	Filters results by their active status - useful for filtering out inactive cloud services.	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/cloud_services"
```

Response Example

```
[
  {
    "byo_compatible": true,
    "datacenters": null,
    "display_name": "AWS",
    "external_id": "gateway-prod.2",
    "formation_url": null,
    "name": "amazon"
  },
  {
    "byo_compatible": true,
    "datacenters": null,
    "display_name": "Nutanix-AHV",
    "external_id": "gateway-prod.3",
    "formation_url": null,
    "name": "nutanix"
  },
  {
    "byo_compatible": true,
    "datacenters": null,
    "display_name": "Azure",
    "external_id": "gateway-prod.4",
    "formation_url": null,
    "name": "azure"
  }
]
```

```
},
{
  "byo_compatible": true,
  "datacenters": null,
  "display_name": "Google",
  "external_id": "gateway-prod.5",
  "formation_url":
  "https://console.cloud.google.com/cloudshell/editor?cloudshell_git_repo=https://yadda.co
m/etc/",
  "name": "google"
}
// ...
]
```

Status: 200 "OK"

List Cloud Service VPCs

Returns a list of VPCs and their Subnets for a Cloud Service & Datacenter by ID.

GET

/cloud_services/:cloud_service_id/vpcs

Request Parameters

Parameter	Description	Param Type	Data Type	Required
cloud_service_id	ID of the Cloud Services hosting VPCs.	Search Query	String	True
datacenter_id	ID of the Datacenter that you'd like to list VPCs from.	Search Query	String	True

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/cloud_services"
```

Response Example

```
[
  {
    "cidr": "10.0.0.0/18",
    "id": "vpc-1d0a7baa5a9a1e71f",
    "name": "prod:v8675309:vpc0",
    "resource_group": null,
    "subnets": [
      {
        "az": "us-east-2c",
        "cidr": "10.0.16.0/21",
        "delegated": null,
        "id": "subnet-01586eaf1f4182ed8",
        "name": "prod:v8675309:sn2",
        "nat_gateway": null,
        "private": false,
        "resource_group": null
      },
      {
        "az": "us-east-2b",
        "cidr": "10.0.8.0/21",
        "delegated": null,
        "id": "subnet-0c1a9ce0dc7c1de1e",
        "name": "prod:v8675309:sn1",
        "nat_gateway": null,
        "private": false,
        "resource_group": null
      },
      {
        "az": "us-east-2a",
        "cidr": "10.0.0.0/21",
        "delegated": null,
        "id": "subnet-07c93b527007eb542",
        "name": "prod:v8675309:sn0",
        "nat_gateway": null,
        "private": false,
        "resource_group": null
      }
    ]
  }
  // ... more VPCs and subnets.
]
```

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

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