

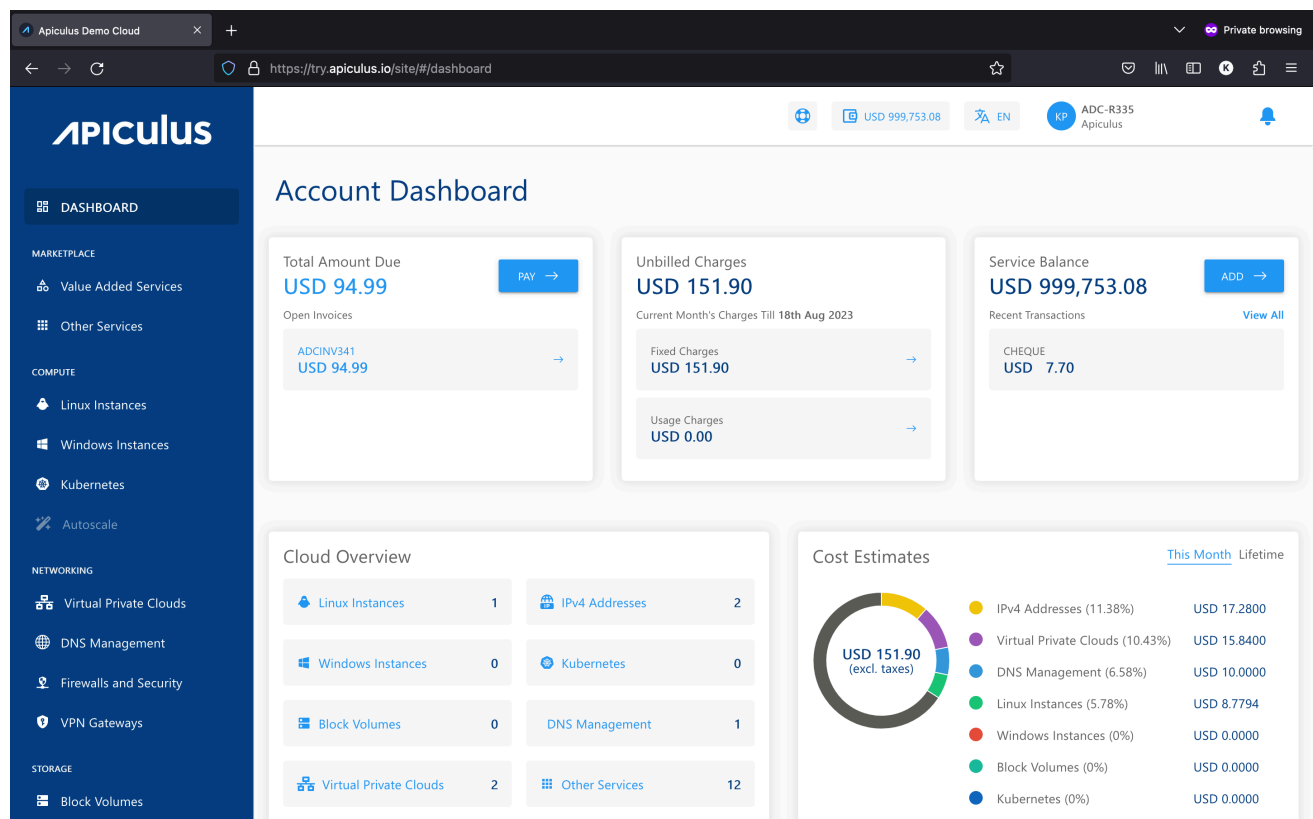
Apiculus - Help Documentation

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Welcome

Apiculus is an end-to-end cloud-as-a-service solution that addresses the technology, business enablement and customer experience needs of regional, domestic and edge cloud service providers. Apiculus presents itself as an all-in-one technology platform that combines cloud service monetisation, infrastructure management and customer life cycle management, and offers an integrated solution for cloud providers in edge markets.



Apiculus enables:

- New service providers to launch and operate independent, greenfield with 100% data localisation.
- Established IaaS providers to transform and scale their VPS services into a full-fledged multi-service public cloud offering.
- Service providers to offer a standardised service delivery and user experience.

Stack Components

Items in **blue** are Apiculus software capabilities; items in **black** are services and extensions that can be monetised; items in **green** are service provider's assets.

Apiculus End-user CMP

| | | | | |
|--------------|---------|------------|-------------|-------------|
| Self Service | Billing | IAM & RBAC | Marketplace | White Label |
|--------------|---------|------------|-------------|-------------|

Apiculus Admin Ops and Monetisable Cloud Service Offerings

| | | | |
|------------|--------------------------|-------------------------|---------------------|
| Admin Ops | Traditional IaaS | Cloud-native IaaS | Marketplace |
| Ticketing | Virtual Compute | Container Orchestration | Cybersecurity |
| Monitoring | Bare Metal | Cluster Management | DNS Management |
| Analytics | Virtual Networks and NFV | | Backup and DR |
| Marketing | Block and Object Storage | | AWS Cloud Brokerage |

Service Provider Assets

| | | |
|----------|-------------|----------------------|
| Hardware | Data Centre | Network Connectivity |
|----------|-------------|----------------------|

Features and Specifications

This section covers the following:

- Self-service and Administration
- Integrated Billing and XaaS Monetisation
- End-to-end Business Enablement

Self-service and Administration

Apiculus brings a powerful layer of self-service along with a multitude of configurable options for managing customer journeys, admin operations and cloud commerce.

| FEATURES | DESCRIPTION |
|--------------|-------------|
| SELF SERVICE | |

| FEATURES | DESCRIPTION |
|--|---|
| Onboarding, Provisioning, and Cloud Management | Offer a complete self-service experience to your customers for onboarding, provisioning and cloud resource management. |
| Admin Operations and CMP Administration | Manage your cloud operations, customer accounts, service requests, and marketplace mechanics - all from a single Admin Console. |
| Marketplace Management | Offer a wide range of compute, networking, cloud-native and value-added services with single-click provisioning and seamless ease of management and operations. |
| ADMINISTRATION | |
| Complete Customer Profile and Records | Manage and get a 360-degree view on your customers' profiles and activities. |
| Customer Identity Verification Workflows | Define workflows for mandatory or regulatory KYC (Know Your Customer) identity verification of your customers. |
| Self-service Platform Configurations | Configure the end-user experience, right from branding to policy documentation, custom links and platform default behaviours. |
| Role-based Admin Access | Onboard various functional personnel with our customisable role-based access system. |

Integrated Billing and XaaS Monetisation

With Apiculus, service providers can set up a marketplace of IaaS, PaaS, multi-cloud and other value-added service offerings. Apiculus offers not only the listing of services, but also a complete automated and integrated provisioning, operating, and billing paradigm.

| FEATURES | DESCRIPTION |
|---------------------------|-------------|
| INTEGRATED BILLING | |

| FEATURES | DESCRIPTION |
|--|--|
| Built-for-cloud Billing Models | Configure billing models such as monthly subscriptions, fixed recurring pricing or pay-as-you-go, and integrate with any payment gateway of your preference. |
| Transactions and Billing Records | Manage invoices, credit notes, tax input records and offline transactions with ease and loads of customisation options. |
| Dunning and Automation Policies | Automate customer lifecycle on the basis of billing events, payment delays, KYC identity verifications and many more. |
| XAAS MARKETPLACE AND MONETISATION | |
| IaaS, PaaS, Multi-cloud and SaaS-ready Marketplace | Offer a wide variety of traditional IaaS, cloud-native and marketplace services to capture a larger share of your customer's wallet. |
| Custom Catalogues and Quick Plans | Define and create custom catalogues with integrated or billing-only services, with multiple targeting options for customer accounts. |
| Multi-currency and Multi-Region | Offer billing in global currencies in addition to local ones to serve your local and global demand. |
| Discounts, Coupons & Trials | Streamline your customer acquisition by creating on-site discounting, cash vouchers and structured trial benefits. |

End-to-End Business Enablement

Apiculus ships with SLA-backed integrated support and all the tools needed to enable stellar service delivery on the cloud. As an extension of business enablement, Apiculus also offers comprehensive localisation across branding, regulatory, compliance and other localisation domains.

| FEATURES | DESCRIPTION |
|---|---|
| SUPPORT AND LIFE CYCLE MANAGEMENT | |
| Integrated Ticketing System | Offer an engagement touchpoint to your customers via the integrated ITIL-compliant ticketing system, or offer real-time support using our marketing extensions. |
| Customer Life Cycle Dashboards | Get complete visibility of your customer's journeys, cloud spending, technical health and more. |
| 24/7 SLA-Driven L2-L4 Support | Enjoy SLA-based L2 to L4 support from our team of technology and business experts and eliminating vendor management hassles. |
| LOCALISATION AND PERSONALISATION | |
| On-premise and Locally Hosted | Offer a 100% localised offering, from your data centres, in your region. |
| Design, Localisation and Regulatory White Labelling | Put your brand in front of the customers with our all-round white label philosophy. |
| Personalised Touchpoints for Customer Communication | Personalise your customer outreach using highly customisable messaging templates. |
| Integrable with External Billing and ITSM Systems | Get our team of solution experts to onboard you and accelerate your GTM with our Cloud Accelerator program. |

Services Catalogue

The Apiculus cloud catalogue is offered for all production Availability Zones, as shown below.

| # | Service | Type | ISV |
|----|--|----------|---------------------------|
| 1 | Linux Instances | Core | Apache CloudStack |
| 2 | Windows Instance | Core | Apache CloudStack |
| 3 | Block Volumes | Core | Apache CloudStack |
| 4 | VPC Networking | Core | Apache CloudStack |
| 5 | Apiculus Autoscale (deprecated March 2024) | Core | Apiculus Converge |
| 6 | DNS Management | Extended | PowerDNS |
| 7 | Multi-cloud AWS | Extended | AWS |
| 8 | Metal Instances | Extended | Canonical MAAS |
| 9 | Virtual Firewall Instances | Extended | pfSense/FortiGate VM |
| 10 | Load Balancer Instances | Extended | Citrix Netscaler VPX |
| 11 | Kubernetes Clusters | Core | Apache CloudStack |
| 12 | Autoscale Groups | Core | Apache CloudStack |
| 13 | Instance & Volume Backups (GA May 2024) | Core | StorPool VolumeCare |
| 14 | File-level Backups (GA May 2024) | Extended | Acronis Cyber Protection |
| 15 | Databases | Extended | TBD |
| 16 | Virtual Firewall Instances | Extended | Fortinet Virtual Firewall |
| 17 | S2S and RA VPN | Core | Apache CloudStack |

| # | Service | Type | ISV |
|----|-----------------------------|----------|----------------------|
| 18 | Images & Snapshots | Core | Apache CloudStack |
| 19 | Account-level Storage | Core | Apache CloudStack |
| 20 | Account-level Data Transfer | Core | Apache CloudStack |
| 21 | Managed Services | Core | Service Provider |
| 22 | Professional Services | Core | Service Provider |
| 23 | QuickPlans | Core | Service Provider |
| 24 | Object Storage/S3 | Extended | Clouddian HyperStore |

Logging In

Any user with a valid username/email and password can log in to Apiculus and will automatically be directed to their respective control panel based on their user type. Upon successful login, the navigation is as below:

- Subscriber users (admin and children) - to Apiculus Cloud Console
- Reseller users - to Apiculus Admin Console in the reseller view
- Admin users - to Apiculus Admin Console

Apiculus stores certain essential and non-third party cookies that are needed for account identification. These are:

- Access token to authenticate session
- User information like ID, email, type, state, and first/last name
- Other metadata such as the user's billing currency and payment currency

Additionally, if Google Tag Manager is being used, the connected apps may inject their own cookies into the session. These will be treated as third party cookies and may be blocked by privacy-focused browsers, ad blockers etc.

NOTE

Login attempts and passwords can be managed by setting up strong password policies through platform configurations.


Resetting Password


Forgotten passwords can be reset by clicking on **I have forgotten my password** on Access Central. If the email entered is valid and exists on the system, instructions to set a new password will be sent by email.


Passwords must adhere to the password policies defined in the platform configurations.


Introduction


Apiculus is designed to make your experience easier, from managing infrastructure to handling payments and communication. Here's a look at the main features that help simplify the process.

 **Building Blocks**Apiculus Cloud Console is the topmost layer on a technology stack that is fine-tuned and optimised for performance, features and experience. The Apiculus solution uses Enterprise-grade components to handle various facets of infrastructure management and service delivery.

 **Billing Concepts**Billing on Apiculus Cloud works on a subscription model. In line with modern-day apps and services, subscription billing models are an efficient way to deliver service value as a pay-as-you-go license. This not only eliminates heavy upfront costs for any service purchase, but also gives you the flexibility to cancel at any time and pay for only the amount or duration of use.

 **Supported Payment Gateways**The following payment gateways are supported on Apiculus to receive payments:

 **Supported SMS Gateways**Apiculus supports SMS gateways that can be used for sending SMS notifications, sending one-time passwords (OTP) and verifying mobile number ownership. The following SMS gateways are supported:

 **Apiculus Access Central**Apiculus offers a single login page for subscribers and admins alike, and redirects based on the type of user who is logging in (subscriber, reseller, admin).

Building Blocks

Apiculus Cloud Console is the topmost layer on a technology stack that is fine-tuned and optimised for performance, features and experience. The Apiculus solution uses Enterprise-grade components to handle various facets of infrastructure management and service delivery.

In short, the building blocks of Apiculus are:

- Apiculus Cloud Console and Admin Console – service provider administration, subscriber CMP, billing, service catalogues, platform administration
- Apache CloudStack – orchestrator to facilitate virtual infrastructure and asset provisioning
- Zabbix – monitoring of guest and management clusters, physical asset monitoring
- OTRS – support and ticket operations with ITIL v5 compliance
- Metabase – business intelligence and reporting dashboards
- StorPool – software-defined storage solution for reliability and underlying performance
- Cloudian HyperStore – S3-compatible object storage
- Hypervisors – KVM virtualisation with support for ESXi and Xenserver
- Networking – firewalls, switches and routers from industry-leading providers
- High-performance Servers – HPE preference hardware, with support for other leading (Dell, Huawei etc.) or commodity providers

Billing Concepts

Billing on Apiculus Cloud works on a subscription model. In line with modern-day apps and services, subscription billing models are an efficient way to deliver service value as a pay-as-you-go license. This not only eliminates heavy upfront costs for any service purchase, but also gives you the flexibility to cancel at any time and pay for only the amount or duration of use.

Billing on Apiculus Cloud

To understand the various billing and financial aspects of Apiculus Cloud, it is essential to be aware of certain billing concepts:

- **Billing Cycle:** By default, Apiculus Cloud follows a monthly billing cycle from the 1st to the 31st (or 30th or 28th) of each month. Any resource or service purchased during the billing cycle will be invoiced in the next month.
- **Billing Frequency:** Services can have their own billing or renewal frequencies. This is essentially the time period for which the resource or service is rated and billed for. These can be:
 - Hourly (mainly for virtual machines and disks)
 - Monthly (for most of the available services)
 - Weekly
 - Quarterly
 - Half-yearly
 - Yearly
 - One-time
- **Billing Model:** Apiculus Cloud follows a billing model determined by a credit limit that your account has been offered. This credit limit is a value that you can purchase services and resources up to without running the risk of account restriction, disablement, or termination. Credit limits can be enhanced by Apiculus based on your usage and payment track records.
- **Service Balance:** In simple terms, the service balance is your current purchase capacity on Apiculus Cloud. The service balance includes your credit limit, payments that you have made and all charges that you have incurred on your subscriptions and is denoted using a 'wallet' metaphor.

All billing records related to your account on Apiculus Cloud can be accessed from the respective sections under **Billing and Financial** in the main navigation panel.

Supported Payment Gateways

The following payment gateways are supported on Apiculus to receive payments:

- Razorpay (India)
- Stripe (global)
- Paypal (global)
- iVeri (Zimbabwe)
- Bank of Georgia (Georgia)
- DPO Group (Rwanda)
- DPO Paygate (South Africa)
- Ecocash (Zimbabwe)
- Esewa (Nepal)
- Fortis (USA)
- PayTM (India)
- PayTabs (Global)
- Hyperpay (MENA)
- HDFC
- DataWorld (Nepal) - In-house Gateway for DataWorld. Not available globally.

NOTE

Apiculus supports the listed payment gateways in a **redirect** mode. Auto-debits and recurring payments are not currently supported.

Supported SMS Gateways

Apiculus supports SMS gateways that can be used for sending SMS notifications, sending one-time passwords (OTP) and verifying mobile number ownership. The following SMS gateways are supported:

- Kapsystem (India)
- Textlocal (India)
- Twilio (global)
- Oneway (ANZ, Asia, Europe)
- TelOne SendSMS (Zimbabwe)
- Bizbond
- Mobishastra (India)
- Unifonic (Middle East)
- JorMall (Jordan)

NOTE

SMS charges and the ability to send domestic and international messages depend on the SMS provider and the service plan.

Apiculus Access Central

Apiculus offers a single login page for subscribers and admins alike, and redirects based on the type of user who is logging in (subscriber, reseller, admin).

Access Central can be accessed via the cloud URL configured for the service provider's cloud deployment.



Log in to Apiculus Demo Cloud

Email
john.smith@indiquis.com

Password
••••••••

[I don't remember my password](#)

LOGIN SECURELY TO YOUR ACCOUNT

Don't have an account? [Sign Up](#)

