powua
ORCHESTRATION PLATFORM

UNLEASH THE POTENTIAL OF CLOUD, NETWORKS AND INFRASTRUCTURES

INTRODUCTION

IT orchestration refers to the configuration, management, and automated activation of IT infrastructures, networks, applications, and services.
IT orchestration allows companies to more easily manage tasks and workflows, reduce overall IT costs, improve provisioning times, and reduce complexity for technologies and development activities. Thanks to data analytics and machine learning, IT orchestration also allows you to manage the scaling and activation of cloud resources, improving security and scalability.

Through the Powua orchestration platform, the IT department is now able to load all available resources into a web catalog that all departments have access to, based on pre-set permissions.
Users have access to an online catalog with ready-to-use software and solutions, they will be able to choose the infrastructures and services they need and use them as long as necessary, without involving IT anymore for configurations and activations.

Powua provides diagnostics on cloud usage and cost; thanks to Machine Learning and AI Ops, Powua can predict hardware failures and system overloads, reducing costs by 30%. With just a few clicks, it can provide details about virtual machines, physical servers, and public clouds. In just a few steps it is possible to modify the activated services and analyze their performance. Cost and resource allocation is now much simpler. The IT division can charge any department for its consumption and implement a provisioning and capacity planning system to plan investments based on accurate data.

SCENARIOS

SMART INFRASTRUCTURES

Powua is designed to enable the automation of ICT infrastructures: it allows you to activate, interrupt, and scale the delivery of applications and infrastructures based on the requirements of the various offices and the roles and permissions of collaborators in self-service mode; in this way, the ICT office will be able to relieve people of repetitive technical tasks and significantly reduce waiting times for specialized technical assistance.
Powua is also enhanced with artificial intelligence algorithms that allow you to optimize consumption, predict overloads, configure and scale services for each application/office/user, in order to distribute resources efficiently and automatically and save on infrastructure costs, supply, and consumption.

SMART CLOUD

One of the main problems of Cloud and Hybrid infrastructures is having full control of the consumption and costs of the services offered to its customers or users, such as applications, software, or infrastructures; failure to control costs and consumption leads to approximate billing, and it is the main cause of economic losses.
With Powua you can implement private, public, or hybrid cloud configurations and adopt all service models, including SaaS, IaaS, and PaaS, and control the main virtualization solutions; a "multi-tenant" and "white label" marketplace is also possible, containing catalogs of digital services that will be activated automatically at the user's choice in complete autonomy.

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BENEFITS

INCREASE PRODUCTIVITY

Companies that manage IT architectures in the cloud experience productivity gains.
Cloud resource orchestration plays an important role in connecting departments, optimizing processes, improving agility and collaboration while maintaining high levels of quality and security. Furthermore, you can free your IT resources from more unpleasant tasks, increasing productivity.

IMPROVE SCALABILITY

One of the main problems with traditional on-premise infrastructures is that they make scalability difficult. Cloud IT orchestration and automation eliminate the need to purchase hardware technologies and set up servers every time your organization expands and your business grows. Powua is the cloud orchestration platform that allows you to scale your IT infrastructure both vertically and horizontally.

OPTIMIZE COSTS

With Powua the CIO has complete control over software and infrastructure deployed within the organization. The IT department can save time and resources previously dedicated to deploying and configuring services and infrastructure. Processes are now streamlined, IT staff is now efficient, and costs are correctly charged to each division.

REDUCE DOWNTIME

Downtime, interruptions, and failures can put the IT infrastructure at risk, compromise the functioning of the company, and lose money. Thanks to data analytics and AI algorithms, it is possible to effectively determine outliers, identify problems in real time, and prevent service interruptions.

INCREASE SAFETY

Companies very often are unable to have full control of the entire public cloud infrastructure, thus exposing themselves to cyber-attacks.
To increase security, the most sensitive user data and critical workloads can remain within a private infrastructure, protected and safeguarded by internal IT staff, while the public cloud can be used to make end-to-end services and applications available. Powua helps organizations monitor, discover, and report security issues in hybrid cloud environments.

IMPROVE COMPLIANCE

From a performance point of view, the distance and location of a data center are of little importance. However, national regulatory limitations relating to Privacy may come into play, which defends the right of users to know where and how their personal data is stored.
This complicates the transition to the purely public cloud for many large companies.
With Powua, you can manage sensitive workloads in your private cloud and move data to and from the public cloud based on regulatory changes and the type of data accumulated.

FUNCTIONALITIES

MANAGE YOUR HYBRID CLOUD

Powua allows you to implement private, public, or hybrid cloud configurations; it also supports all service models, including SaaS (Software as a Service), IaaS (Infrastructure as a Service), and PaaS (Platform as a Service) and the main virtualization solutions.

PROVIDE APPS, SERVICES, AND IN-FRASTRUCTURE TO YOUR USERS

Users have access to an online catalog with ready-to-use software and solutions. Through the Powua online platform, the IT office is now able to upload all available resources into a web catalog to which all offices have access based on pre-set authorizations.

CREATE YOUR MARKETPLACE

Thanks to Powua, companies can offer their software and services using innovative commercial policies based on prepaid, pay-as-you-go, or mixed models. Cloud and application service providers can monitor data consumption, performance, and billing of services.

MAKE THE CLOUD WORK FOR YOU

Providers and Telcos will monitor and manage consumption for each product and service by setting a different billing model for each product and service.
End users will receive commercial offers based on a "pay-per-use" model that reflects their real needs and allows them to pay only for what they consume.

IMPLEMENT SELF-SERVICE PORTALS

Easy access to SaaS and IaaS offers, through a simplified and integrated sales approach.
It makes powerful and flexible APIs available to measure the consumption and performance of any software and service. Powua manages requests, tracks all open sessions, and converts this information into billable data.

DEVELOP AND DELIVER APPS WITH A DEVOPS APPROACH

Managing a portfolio of applications built with different architectures and frameworks can require a lot of time and resources. Thanks to automated operations across the entire technology stack and self-service provisioning for developers, Powua enables software houses and cloud service providers to provision and update applications with maximum efficiency.
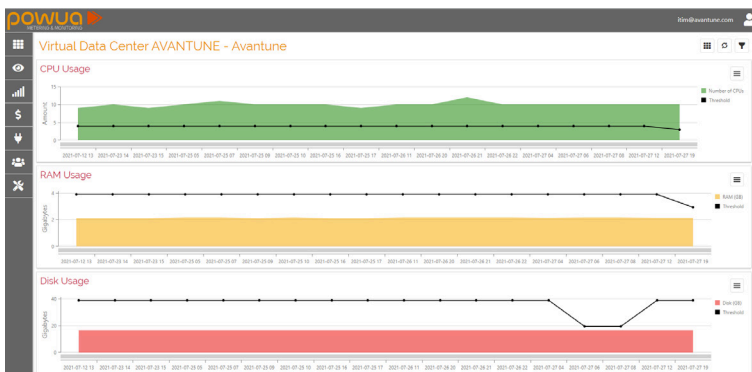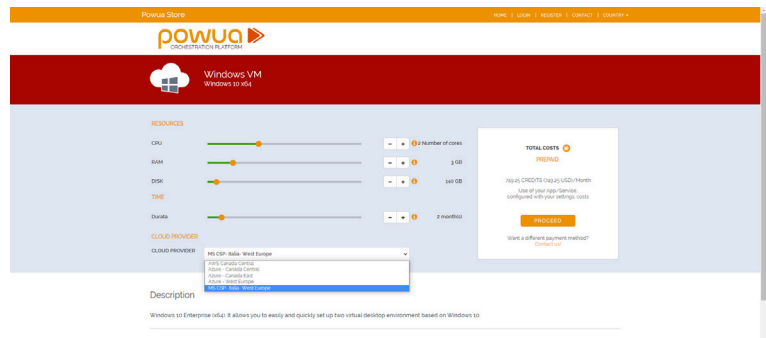

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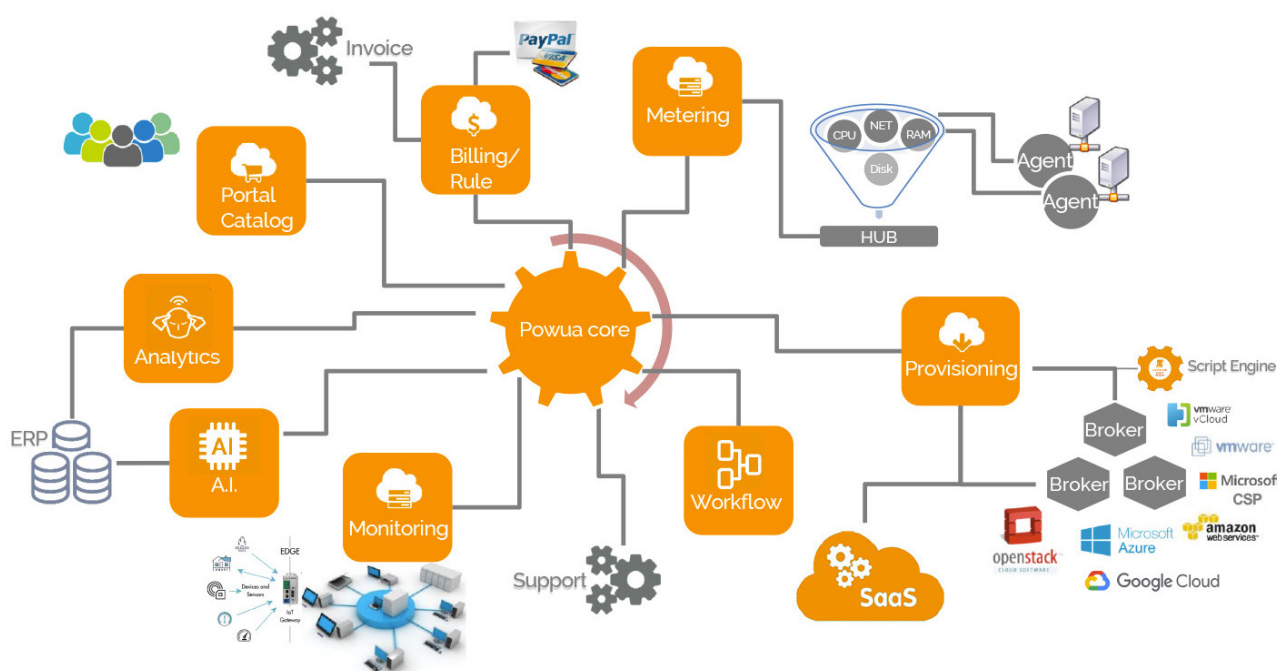
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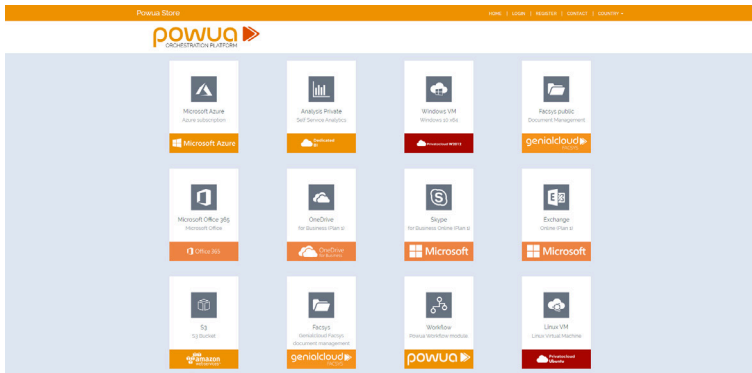
STORE

Self-service catalog for infrastructure, software, and services.
Any service can be offered allowing end users to choose and configure selected services, in self-service mode.

PROVISIONING

Automatic process of provision and configuration of software, services, and infrastructures.
Multi-provider for virtualized systems.
Deployment and configuration of the cloud service, on public and private cloud scenarios (SaaS).
Configuration and management of virtual infrastructure (IaaS).

METERING

Powua measures the consumption of hardware, software, and services, regardless of virtual or physical infrastructure.
It offers dashboards for various consumption metrics while maintaining a centralized view of your IT infrastructure.
Check physical resources (CPU, RAM, Disk, and Network) in real-time.

MONITORING

Manage HW and SW resources.
Observe a map of the type of network and the active services.
Define alarm thresholds and automate actions following the occurrence of events.
Event-based notifications for different operational groups.
Derive SLA reports for defined components and services.
Get the ability to monitor access.
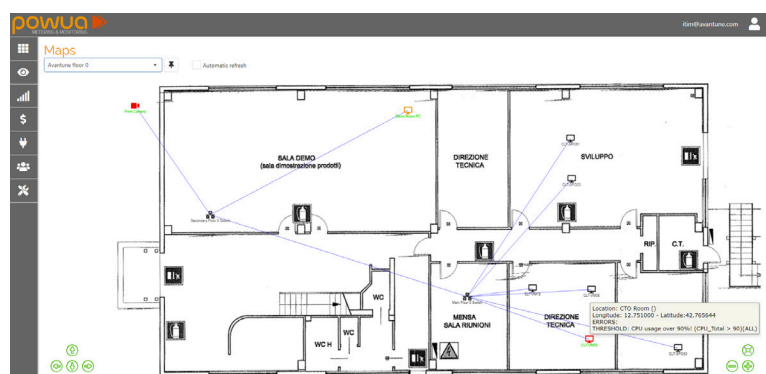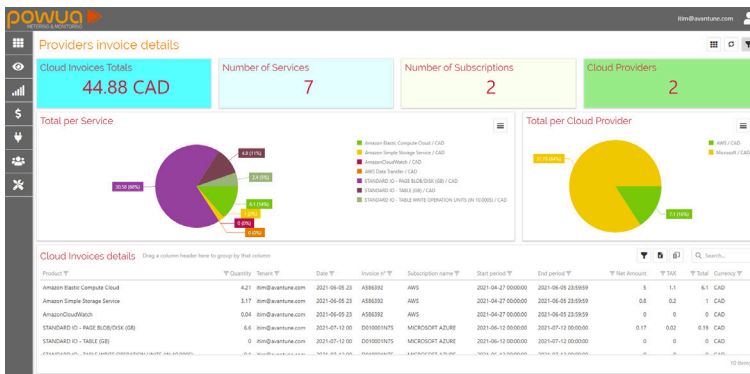
BILLING

Define values for any service and infrastructure purchased or consumed and measured by the metering module.
Translate resource consumption into costs by charging prepaid credits, recurring fees, or on a pay-as-you-go basis.
Define rules for chargeback policies.

WORKFLOW

The Workflow module allows you to implement and automate IT operations through a simple web tool. The Workflow can be activated from other Powua modules (such as events generated by Catalog and/or Provisioning, monitoring alarms, tariff rule executions, etc.) or external applications.
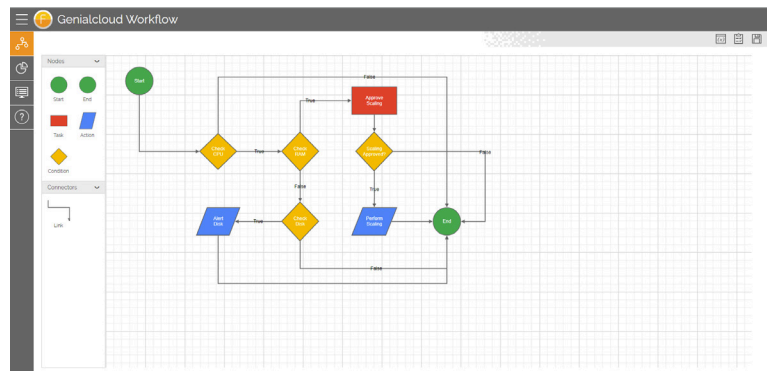
ANALYTICS

Take advantage of the advanced data analysis solution, natively integrated with Powua.
Create custom reports, views, dashboards, predictive models and perform analytics, following a simple self-service approach.
Create and share reports, dashboards, visualizations, and analytical models with other users.

AI

Powua integrates AI algorithms, able to apply statistical models, probability calculations, and artificial intelligence algorithms to the acquired big data.
Powua helps IT managers predict hardware and service outages, overhead, and costs, and optimize multi-cloud usage.

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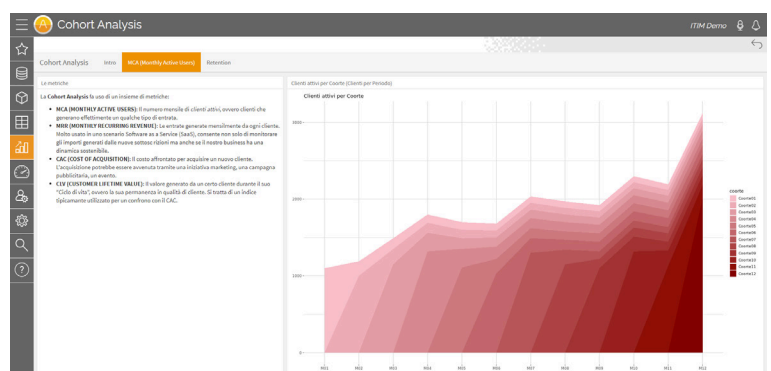
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Avantune is a digital company that develops self-service, IoT and AI enabled business solutions. With Genialcloud, we help customers orchestrate people and processes; with Powua, we help customers orchestrate IoT and IT resources. Our headquarter is in Toronto, with offices in Canada, United States and Italy.