



## Modernizing IT with Desktop-as-a-Service

itopia is the leading cloud automation and orchestration solution purpose-built for Google Cloud. Our mission is to accelerate the enterprise migration from on-prem infrastructure to hyperscale cloud. We believe the future of VDI is delivering desktops in the cloud.

itopia is Software-as-a-Service (SaaS) enabling the creation and orchestration of *cloud desktop infrastructure* to deliver Windows environments on Google Cloud. itopia is a cloud-native turnkey solution for Desktop-as-a-Service (DaaS) on GCP. itopia empowers enterprises to simplify IT by automating the configuration and utilization of cloud resources, along with comprehensive end-user management, all from a single control panel in the browser. itopia ensures data security and business continuity with sensitive data stored solely in Google Cloud, away from end-user devices. With itopia, IT admins can deliver Windows virtual desktops and apps to workers on any device, while intelligent auto-scaling and dynamic VM uptime reduces costs by adapting to end-user demand.

## Product Features

### Single Control Panel

With itopia, all admin activities related to automated provisioning and management of the cloud environment is managed through a single control panel. Based on Google's *Material Design* visual language, itopia's interface is clean, modern, and intuitive.

### Automated Migration & Provisioning

With itopia's automated discovery and migration feature, you can seamlessly migrate the configuration of your existing VDI environment into Google Cloud. itopia will automatically create the required RDS server roles and provision VMs as *cloud desktop infrastructure*. With a few simple clicks, itopia orchestrates the configuration of the entire deployment:

- Google Cloud environment: Network, Firewall, Compute, and Storage
- Windows infrastructure: Active Directory, Group Policy Objects, RD Gateways, RD Brokers, RD Web, RD Licensing, RD Session Hosts, and File Servers.

### Identity & Access Management

itopia provides a centralized console for user access and group management. Create new users or import users from your existing Active Directory (or, extend your on-prem AD into Google Cloud). Assign user groups to collections with designated Windows apps and permissions, accessible across multiple regions.

### Collection Pools

Create unique "pools" of VMs for different types of workloads in your company. *Collection Pools* are fully customizable:

- *Auto-Scaling* for dynamic adjustments to the quantity, size, and capacity of VMs (CPU, RAM, and storage resources)
- Custom Images of Windows OSes and Apps
- Multi-Region Accessibility and User Connection Settings such as Session Timeout

### Nearest Connection Point

itopia can automatically determine a user's location and route them to the collection in the nearest region, ensuring the lowest latency and best user experience.

### Scheduled & Dynamic Uptime

*Scheduled Uptime* can start and stop individual VMs conveniently according to a preset schedule. Useful for shutting down unneeded compute resources on weekends or off-peak hours.

*Dynamic Uptime* will intelligently start and stop VMs based on the number of active users in the collection pool. By keeping only the necessary number of VMs active, *Dynamic Uptime* can reduce compute costs significantly.

### Image Management

Once a VM has been configured with the desired OS, apps, and settings: itopia can automate the creation and deployment of the image across multiple VMs, either manually or via itopia's *Auto-Scaling*.

### File Shares

Manage file shares from a centralized location. Define the folder structure and permissions. Assign mapped drives to users and groups.

- Windows File Server
- *NetApp Cloud Volumes Service* (coming soon): Our native integration provides a high performance, fully managed file server option with support for both NFS and SMB protocols. Enterprises can enjoy Storage-as-a-Service with file speeds up to 10X faster than leading alternative solutions.

## Snapshots & Backups

Capture full VM snapshots using preset schedules and version retention policies. Snapshots can be used to restore one or more VMs to a prior point-in-time configuration. This provides insulation from server-wide failures, yielding a powerful backup tool for disaster recovery.

## Insights

Gather insights from itopia's analytics dashboard to report on historical user behavior and compute activity with our direct integration with BigQuery. This provides monitoring on: session length per user, frequency of app usage and file access, as well as a breakdown of GCP consumption costs.

# Technical Specifications

*Virtualization Model:* Multi-user terminal server. Single-user virtual workstation.

*Environment Model:* itopia is a management layer living on top of the Google Cloud project which provisions and administers the Microsoft RDS environment.

*VDIs OSes:* Windows Server 2019/2016/2012R2 (Windows 10/8 desktop experience).

*End-User Client:* Standard RDP protocol (Microsoft RDP-compatible client). HTML5 browser-based client. Teradici PCoIP client for GPU-accelerated virtual workstations.

*Application Streaming:* Supported natively via RemoteApp.

*Active Directory:* Self-contained Active Directory (full AD deployment). Integration with existing Active Directory (native integration). Google Managed Microsoft AD (beta).

*API Support:* REST API.

*Billing Model:* Monthly license fee per user. Available through the Google Cloud Marketplace (integrated billing). Compute resources are usage-based down to the second.

*Bring Your Own Licenses:* RDS CALs based on Microsoft licensing agreement.

*Additional Features:* VPN configuration support. Network discovery tool for migrating on-premises resources to itopia. Automated configuration of Stackdriver monitoring agents. Integrated support for FSLogix profile management and app masking (coming soon).

# Common Use Cases

## Financial Services

Companies with recent M&A can quickly on-board workers with secure access to critical Windows apps to accelerate productivity. Ensure business continuity by quickly adhering to compliance mandates and safeguard against data breaches.

## Healthcare

Clinicians can access Windows apps to pull up patient information from any device as they move about their hospital or clinic, or work remotely. Sensitive data is protected in the cloud away from user devices, and adheres to HIPAA compliance.

## Manufacturing

Reduce data center footprint and eliminate recurring hardware refresh cycles of rising capital expenditures. Workers across the supply chain can access Windows apps such as AutoCAD or ERPs such as SAP on any device, anywhere.

## Education

Students can access Windows apps such as MATLAB, Adobe Photoshop, and Microsoft Excel on any device, such as the popular Chromebooks. Cloud resources can be scaled up and down in real-time to meet daily and seasonal school-year demand.

We shift the IT burden from your staff to our **cloud automation software**, enabling your company to focus on what you do best.