CloudOps One

Enterprise Multi-Cloud Management Platform

Version 3.0.0 — User Manual

Virtual Venture Team

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About Virtual Venture

Virtual Venture is a technology company specializing in cloud infrastructure management tools and enterprise IT solutions.

Product	Description	Version
VentureConnect	SSH/SFTP/RDP Infrastructure Manager	v1.2.6
CloudOps One	Enterprise Multi-Cloud Platform	v3.0.0

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Product Overview

CloudOps One is a **Windows desktop application** that provides unified management of AWS, OCI, Azure, and GCP infrastructure from a single interface.

Key Benefits:

- Single window for all 4 cloud providers
- SSH Terminal + Cloud Management together
- AI-powered scripting and insights
- Native desktop — no browser tabs
- Encrypted credential storage (AES-256)
- Works offline for SSH connections

System Requirements

Component	Minimum	Recommended
OS	Windows 10 (64-bit)	Windows 11
RAM	4GB	8GB+
CPU	Dual-core	Quad-core

Disk	500MB	1GB
Network	Required for cloud	Broadband

Installation

Setup: Run `CloudOps-One-Setup-3.0.0.exe` — installs to Program Files, creates desktop shortcut.

Portable: Run `CloudOps-One-Portable-3.0.0.exe` from any folder.

First Launch:

1. Set a 4-digit PIN (encrypts all credentials)
2. Set a security question for recovery
3. Start adding sessions or cloud accounts

Licensing

- **Trial:** 30 days, full features, hardware-bound
- **License Key Format:** `CO1-XXXXX-XXXXX-XXXXX-XXXXX`
- **Activation:** Enter key on lock screen → validates online → activates
- **One key = one machine**

Dashboard (Home)

The home screen provides:

- CloudOps One logo with live clock
- Cloud provider counts (AWS, OCI, Azure, GCP)
- KPI stats: Sessions, Accounts, Workflows, Backups, Monitors, Vault
- Quick Access: 8 module tiles
- Recent Sessions list

- Credential rotation alerts (>90 days warning)
- Platform highlights

SSH Terminal

Adding Sessions

1. Right-click session tree → Add Session
2. Enter: Name, Host, Port, Username
3. Auth: Password or SSH Key (PEM/PPK)
4. Save

Features

- Multi-tab terminal
- Copy/Paste (Ctrl+C/V)
- PuTTY PPK v3 auto-conversion
- SSH Agent (Pageant) support
- Persists when navigating (never disconnects)
- Auto-reconnect

SFTP File Manager

- Browse remote files
- Upload/Download with drag-and-drop
- Folder download (recursive)
- Remote file editing
- Permission display

Cloud Management

Adding Cloud Accounts

Provider	Credentials Needed
AWS	Access Key + Secret Key + Region
OCI	Tenancy OCID + User OCID + Fingerprint + Private Key
Azure	Tenant ID + Client ID + Client Secret
GCP	Service Account JSON

What You Can Do

- **Compute:** List/Start/Stop/Reboot instances, Snapshots, Resize, Tags
- **Storage:** Browse S3 buckets, upload/download files and folders
- **Database:** View RDS, Autonomous DB, Azure SQL
- **Networking:** VPC, VNet, VCN, Security Groups
- **IAM:** Users, Roles, Policies, Security Audit
- **Kubernetes:** EKS/OKE/AKS/GKE clusters

Resource Explorer

- Search across all providers
- Filter by Type, Status, Group
- Shows Compartment (OCI) / Resource Group (Azure)

Infrastructure Topology

- Cloud Management → Topology tile
- Tree view: Accounts → Folders → Servers
- Diagram view with visual connections

Server Monitoring

Menu → Monitor

- Auto-polls all servers every 30 seconds
- CPU, RAM, Disk, Load, Network, Services
- Sparkline trend graphs (30 readings)
- Desktop notifications for critical servers
- Custom service watchlist + restart

Cost Optimizer

Cloud Management → Cost Management

- Monthly cost (exact for AWS, estimated for others)
- Cost by Service chart
- Monthly trend (6 months)
- Network & Data Transfer breakdown
- End-of-month forecast
- Budget with alerts
- Rightsizing recommendations

Security & Compliance

Security Dashboard

- Cloud Scan: Checks cloud misconfigurations
- CVE Scan: Checks servers for pending security updates

IAM Audit

- MFA check (critical if disabled)

- Root account security
- Inactive users (90+ days)
- Access key rotation age

Compliance

- CIS Benchmark automated checks

Automation

Cloud Automation

Create multi-step workflows with:

- **SSH Commands** — Run on single server, folder, or all
- **Terraform** — plan/apply/destroy/output
- **Ansible** — Run playbooks
- **AWS Actions** — Start/Stop/Reboot/Snapshot
- **Approval Gates** — Confirm before destructive steps
- **Scheduling** — Manual, Daily, Weekly

Automation Studio

- 75+ pre-built script templates
- Run on any server
- History tracking

AI Features

AI Script Generator (Menu → AI)

1. Describe what you want in plain language

2. AI generates the script
3. Select servers (checkbox folder tree)
4. Click Run — executes on all selected

Setup: API Key button → Enter OpenAI/Google/Anthropic key

AI Cloud Copilot (Dashboard → AI Copilot)

Chat with AI about your infrastructure:

- "Which server has high CPU?"
- "Install nginx on Web Server"
- "How to reduce my AWS bill?"

Features:

- Reads live monitoring data
- Execute from chat
- Save as workflow
- Knows your folders and accounts

Backup & Deploy

Backup Manager

- MySQL, PostgreSQL, MongoDB backups
- File/folder backups
- S3 upload + GPG encryption
- Scheduled execution

Deploy Manager

- Git-based: Pull → Build → Deploy → Health Check
- Auto-rollback on failure
- Environment variables

- Templates: Node.js, Docker, Spring Boot, Next.js

Settings

- Theme: Dark (default) / Light
- Terminal: Font, size, color, cursor
- Export/Import: Encrypted config backup
- Auto-Backup: Saves to ProgramData (survives reinstall)

Vault

- Store passwords, SSH keys, tokens, API keys
- AES-256 encrypted
- Audit log: tracks every access

Troubleshooting

Problem	Solution
App won't start	Check Windows 10 64-bit, run as Admin
SSH fails	Verify host/port, check firewall, PEM format
Cloud error "Access Denied"	Check IAM permissions
High memory	Reduce open SSH tabs, normal is 100-200MB
Icon shows Electron	Uninstall → clear icon cache → reinstall
Sessions lost after reinstall	App will prompt to restore from auto-backup

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Support

- **Website:** www.virtualventure.in

- **Email:** contact@virtualventure.in
- **Updates:** Auto-check every 4 hours

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