apachecloudstack
open source cloud computing

CloudStack India User Group

11th July, 2025

D1 Yotta Data Center, Greater Noida

Sponsored by: ShapeBlue YOTTA LINBIT

whoami

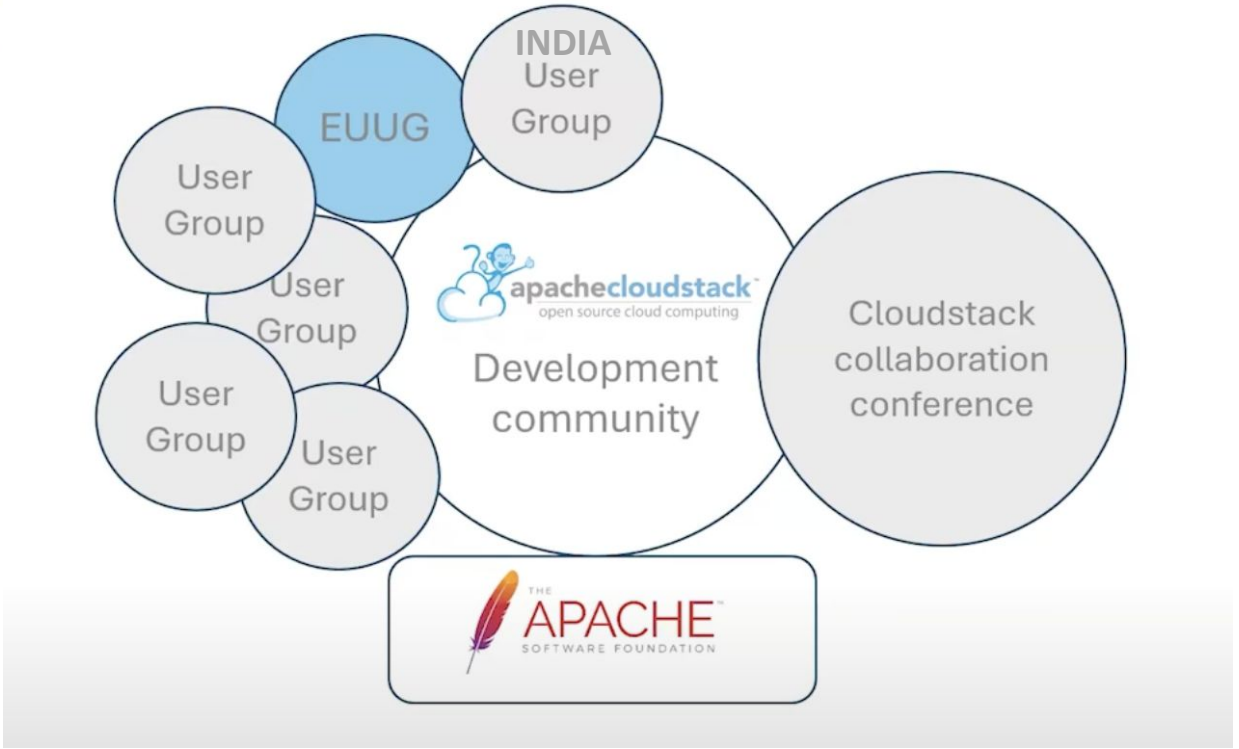
- Apache CloudStack PMC Member, Committer & Ex-VP
- Chair, CloudStack India User Group
- ASF Member, Kubernetes Member
- CTO, ShapeBlue
- Tinkerer, Homelabber, Renewables Champion

Thanks

Sponsors, Speakers and Organisers…

Aims of this Group

- Collaborative environment for:
  - All things **Apache CloudStack**
  - Related Tech: Ecosystem products, hypervisor, storage etc.
- Technical deep-dives, issues & best practices
- Case studies & User stories
- To showcase complementary technologies
- To share ideas & problems with other Apache CloudStack users
- Meetings in various destinations in India


INDIA User Group
EUUG
User Group
User Group
User Group
User Group
apachecloudstack
open source cloud computing
Development community
Cloudstack collaboration conference
THE APACHE SOFTWARE FOUNDATION

Recent & Upcoming Events

- CloudStack Collaboration Conference 2024, 20-22 November
  Madrid, Spain
- CloudStack European User Group 2025, 8 May 2025
  Vienna, Austria
- Upcoming:
  - CloudStack European User Group 2025, 18 September 2025
    London, UK
  - CloudStack Collaboration Conference 2025, 19-21 November
    Milan, Italy

#CSIndiaUG2025

#CloudStack

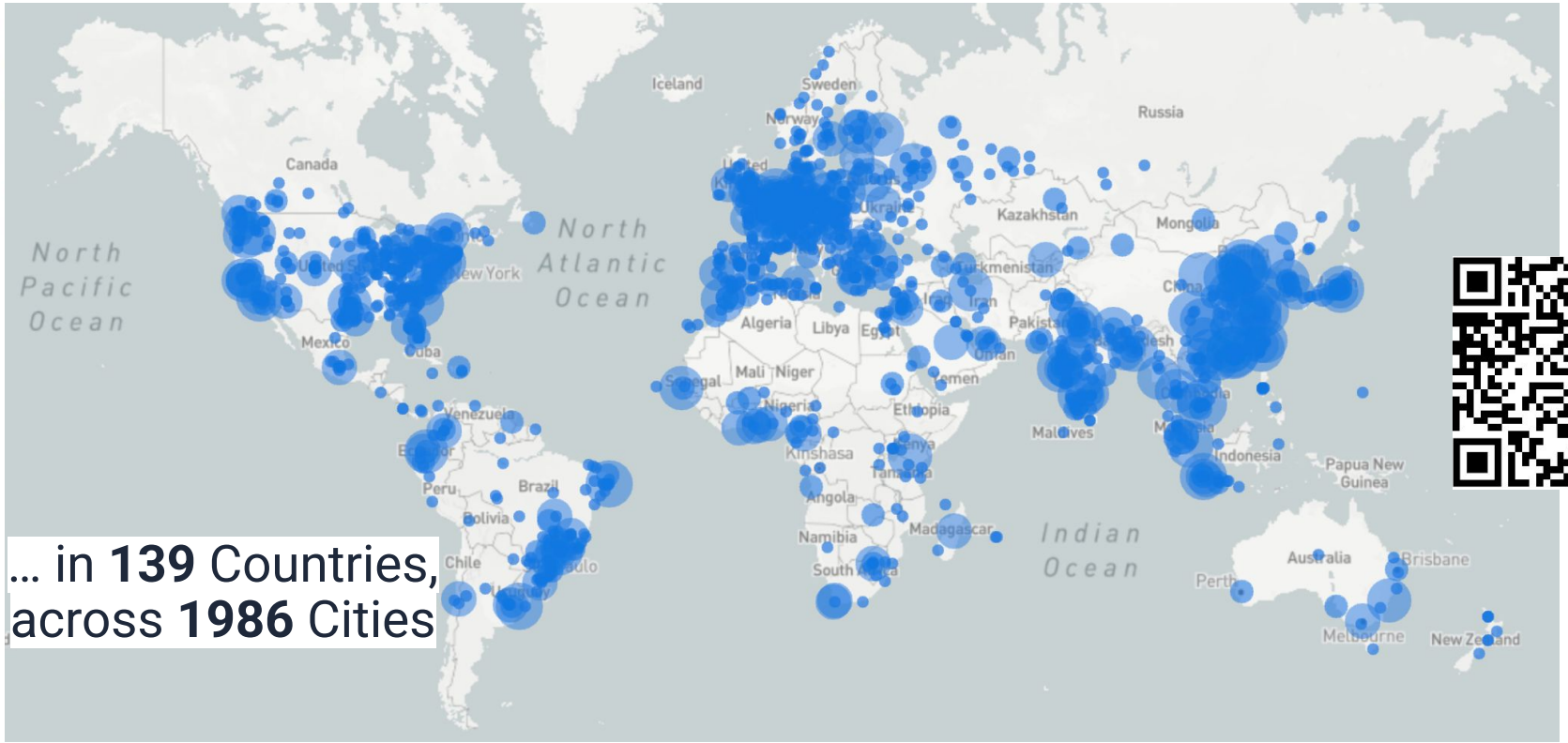
@CloudStack

Who's Using CloudStack?

Who's Using CloudStack?

…

CloudStack Users Are Everywhere



**3-year downloads statistics mapped: https://ipinfo.io/tools/map/94e8a49d-33a8-4f34-8d5d-6c9d19a6a4f8

CloudStack Community & History

cloud.com

Vmops launches, rebrands as cloud.com, Citrix later acquires it in 2011

Apache CloudStack

Citrix donates CloudStack to the Apache Software Foundation

Top Level Project

CloudStack graduates to become a top level Apache project, majority of committers not from Citrix from 2014 onwards

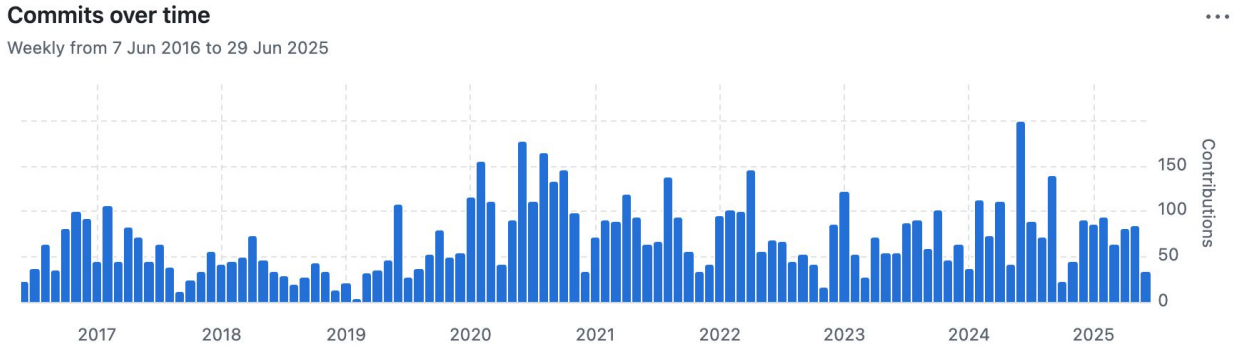
Fully Community Driven

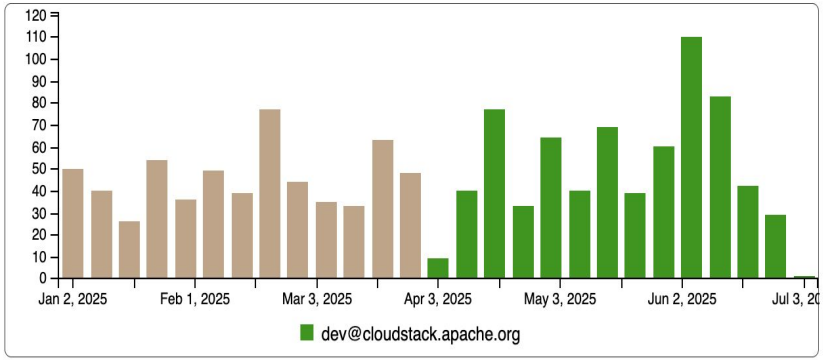
Citrix leaves the project, lots of releases, adoption continues to grow

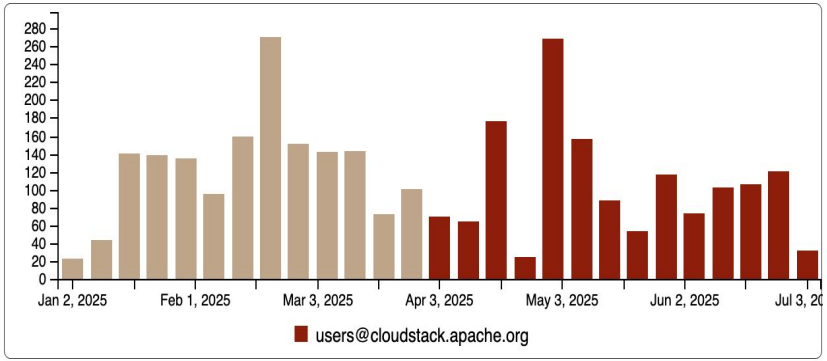
Apache CloudStack Community

- Diverse user-driven community
- Governed by the Apache Software Foundation
- 140+ Committers, 60+ PMC members
- 400+ Code Contributors
- Super-Active Community and Release Activities

Super-Active Community







Apache CloudStack Releases

Release	Date	Type
4.18.2.1 & 4.19.0.2	5 July 2024	Security
4.18.2.2	19 July 2024	Security
4.19.1.0	19 July 2024	Maintenance
4.18.2.3 & 4.19.1.1	6 August 2024	Security
4.18.2.4 & 4.19.1.2	15 October 2024	Security
4.18.2.5 & 4.19.1.3	12 November 2024	Security
4.20.0.0	12 December 2024	LTS
4.19.2.0	3 March 2025	Maintenance
4.20.1.0 & 4.19.3.0	10 June 2025	Maintenance & Security
4.21.0.0 (Upcoming)	**July-August 2025**	Regular
4.22.0.0 (Upcoming)	**Oct-Dec 2025**	LTS

Recent Apache CloudStack Releases

RECAP

Features in 4.19

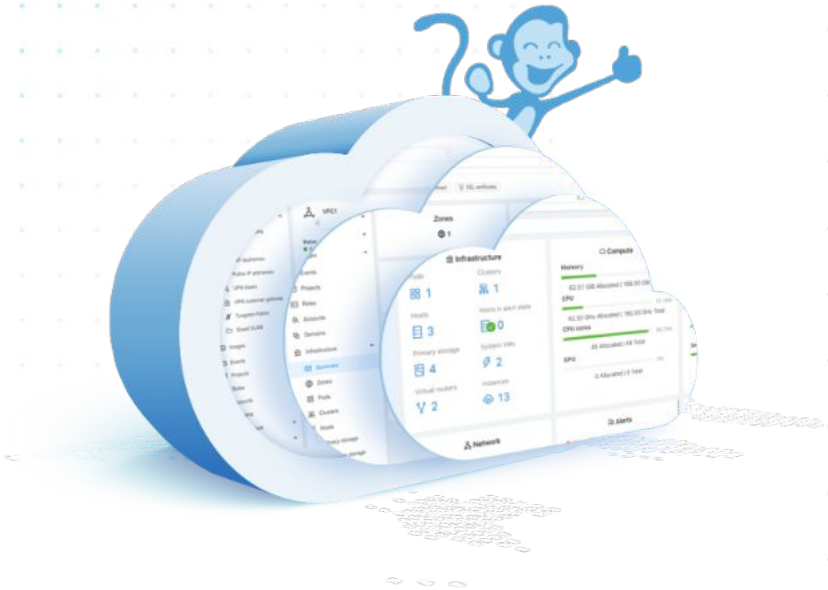
- VMware to CloudStack/KVM Migration
- KVM to CloudStack/KVM Import
- CloudStack DRS
- Object Storage Framework, MinIO Object Storage
- VNF Appliance Support
- OAuth2
- …

Features in 4.20

- ARM64 Support & Multi-Arch Zones
- Shared File Systems
- NAS B&R Provider
- Ceph RGW Object Storage
- Dynamic & Static Routing
- VMware NSX Support
- Webhooks
- Usage Management UI
- …

Upcoming Apache CloudStack 4.21

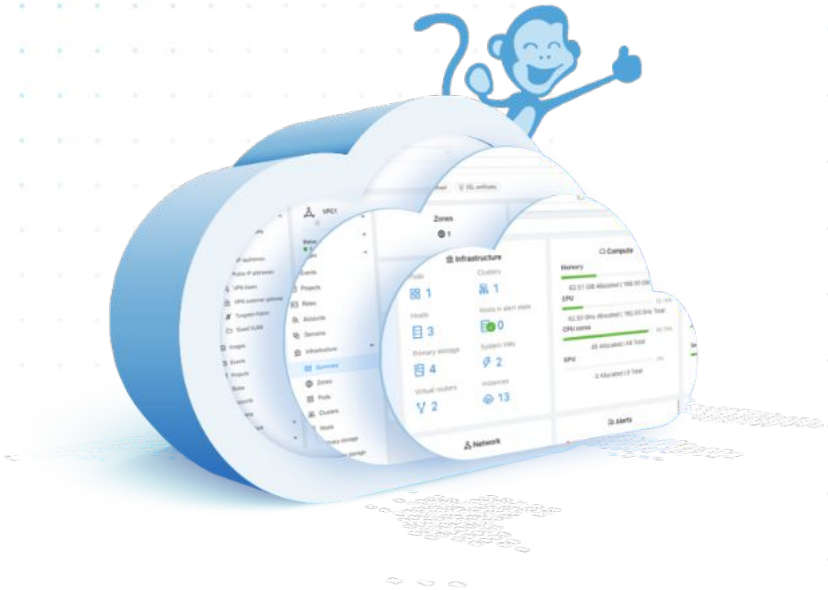
New Features



- CloudStack Extensions Framework (XaaS)
- GPU Integration
- Flexible CKS Clusters
- Backup & Object Storage Limits
- Management Server Maintenance
- Netris CloudStack-Networking Integration
- Cloudian HyperStore Object Storage
- KVM Incremental Snapshots
- CloudStack Instance Lease
- Many more…

Upcoming Apache CloudStack 4.21

New Features



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Today's Agenda

- 10.00 -10.25 – **The Yotta x CloudStack Advantage: a Scalable, India-First Cloud - Tailored for Sovereignty, Flexibility, Affordability and Innovation** – Sunil Gupta, Yotta
- 10.30 - 11.15 – **Apache CloudStack 201: Let's Design & Build an IaaS Cloud** – Jithin Raju, ShapeBlue
- 11.30 - 11.55 – **Empowering Cloud Providers with Apache CloudStack and Stackbill: From Infrastructure to Business Success** - Ravichandran Palanisamy, StackBill
- 12.00 - 12.25 – **Ampere offers energy-efficient future for AI and Cloud** - Vinod Kumar, Ampere Computing
- 12.30 - 12.55 – **Building and Operating a Private Cloud with CloudStack and LINBIT CloudStack HCI Appliance** - Nischal Prabhu, LINBIT

Today's Agenda

- 13.00 - 13.50 – **Lunch**
- 13.50 - 14.50 – **Data Center Tour**
  14.50 - 15.00 – **Meetup Photo-Op & Break**
- 15.00 - 15.25 – **CloudStack GPU Integration** - Rohit Yadav, ShapeBlue
- 15.30 -15.55 – **Simplifying End-to-End Apache CloudStack Deployment with a Web-Based Automation Portal** - Vivek Kumar, Yotta
- 16.00 -16.25 – **Extensions Framework (XaaS) - Enabling Orchestrate Anything** - Harikrishna Patnala & Abhishek Kumar, ShapeBlue
- 16.30 - 17.30 – **Meetup Closing & Networking**

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The Yotta x CloudStack Advantage: a Scalable, India-First Cloud

CloudStack India User Group

Sunil Gupta, Yotta

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