

Cloud Transformation

Journey to Hybrid and Multi-Cloud

-

14th Nov 2024

Agenda





SOFTWARE TECHNOLOGY PARKS OF INDIA

Established in 1991, as an autonomous society under the Ministry of Electronics & Information Technology, Government of India, with the objective of encouraging, promoting and boosting the software exports from India.

SERVICES PROVIDED BY STPI



Statutory Services - STP/EHTP Scheme

Incubation Services



- **High Speed Data Communication Services**
- Startup Promotional Services
 Centres of Entrepreneurship (CoEs)
 Next Generation Incubation Scheme (NGIS)
- **Project Management & Consultancy Services**





Security Operations Centre Services

Vulnerable Assessment and Penetration Testing (VAPT)



BPO Promotion Scheme

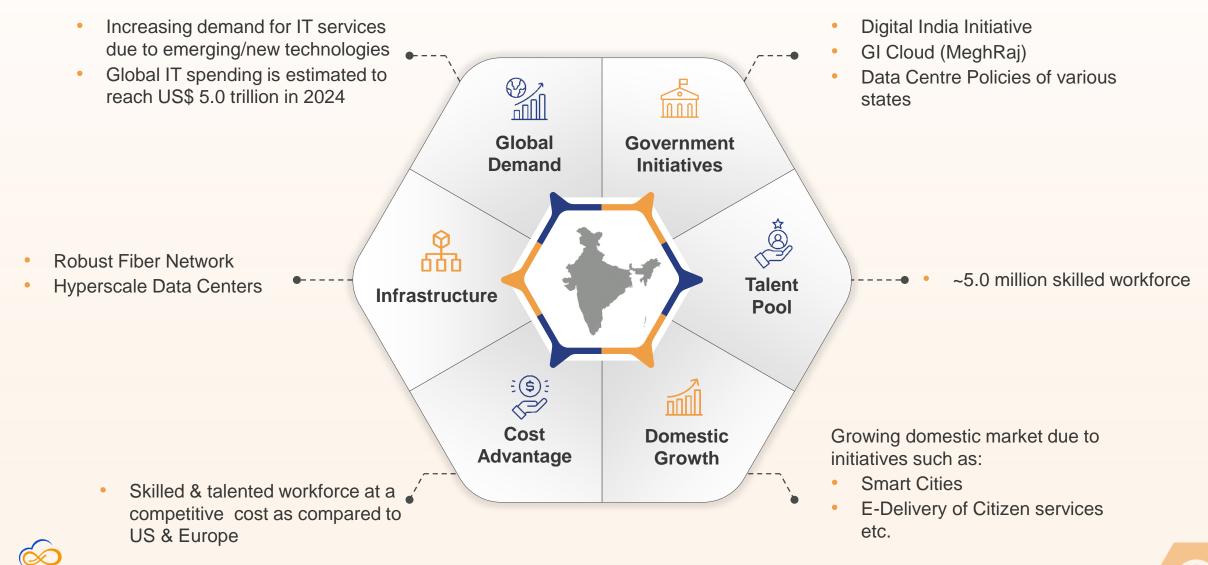


EMC 2.0 Scheme

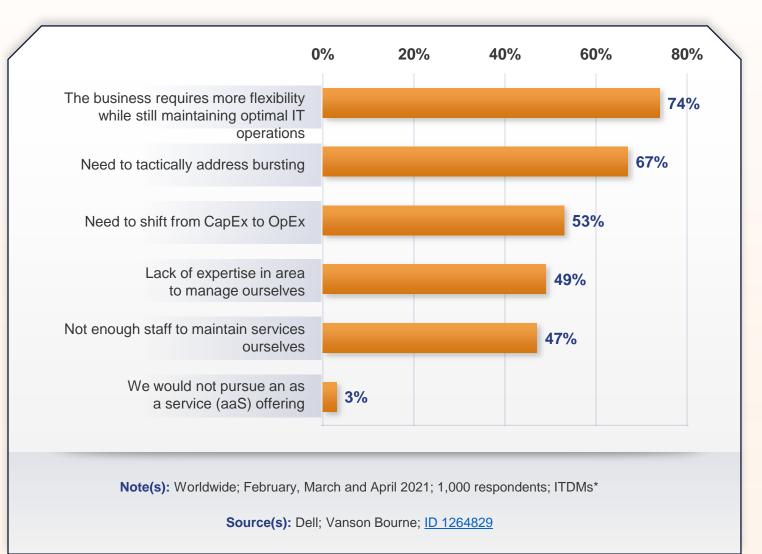




India's Growth Drivers



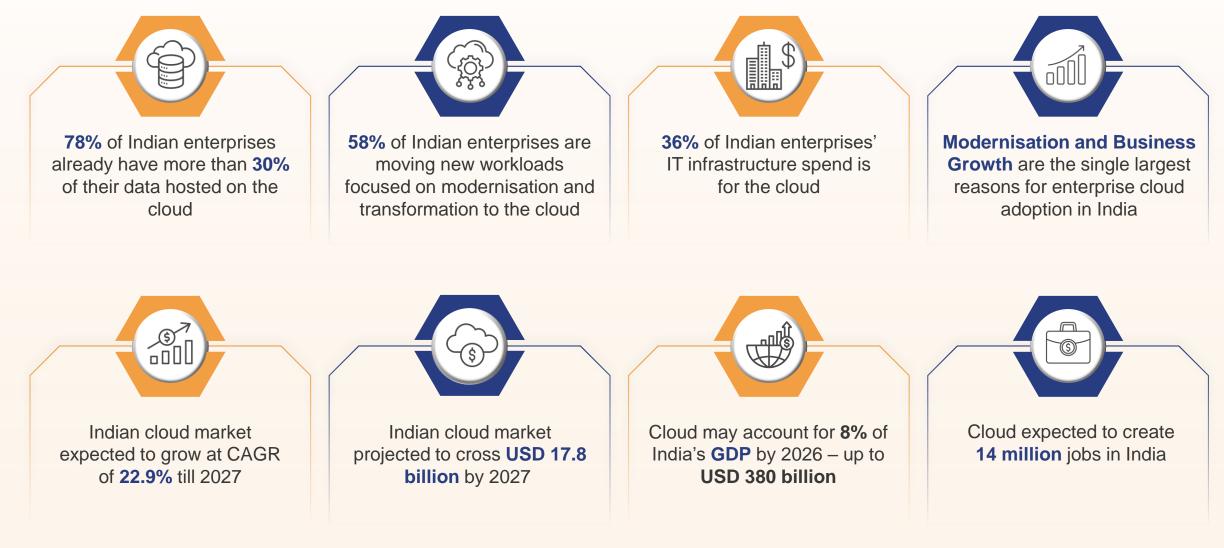
Reasons for Pursuing Cloud Services







Why India Inc. taking the Cloud Seriously





Cloud Roadmap: Embracing the Future

•Hybrid and Multi-Cloud Environments	 Organizations will increasingly adopt hybrid and multi-cloud strategies, leveraging the best of different cloud providers for specific needs.
	 Cloud security will remain paramount, with advanced threat detection, zero-
Focus on Security and Compliance	trust architectures and compliance regulations becoming central to cloud adoption.
Rise of Serverless Computing	 Serverless architectures will gain traction, offering scalability, cost-efficiency, and simplified application development.
Artificial Intelligence and Machine Learning (AI/ML) Integration	 Cloud platforms will seamlessly integrate AI/ML functionalities, enabling advanced data analytics and intelligent automation.
Edge Computing	 Edge computing will become crucial for real-time processing and analysis of data generated at the network's edge.

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Cloud Roadmap: Embracing the Future

 Sustainability in Cloud Computing 	 As awareness of environmental impact increases, green cloud computing will become a priority. Future cloud platforms will likely focus on improving energy efficiency and reducing carbon footprints.
Regulations and Data Sovereignty	 Regulations regarding data privacy, sovereignty, and security will be more stringent. This will likely lead to more localized cloud services, adhering to specific regional regulations and requirements.
Security and Privacy Enhancements	 There will be a stronger focus on enhancing security and privacy measures. This may include advancements in encryption techniques, improved identity and access management, and better tools for monitoring and mitigating security threats.
Interoperability and Standardization	 There will be a push for greater interoperability and standardization among different cloud platforms. This could lead to more seamless integration between services from different providers and improved data portability.



The Future is Hybrid and Multi-Cloud





Hybrid Cloud Market



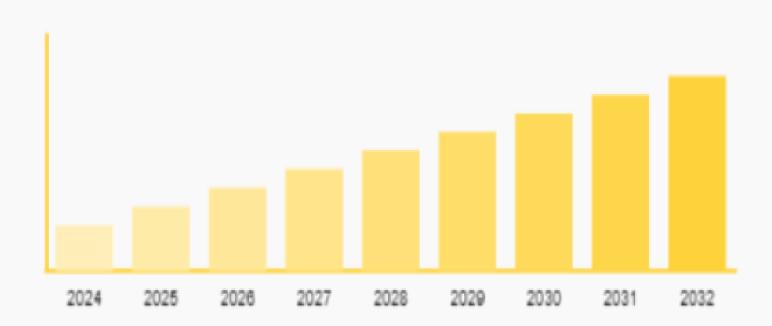
Market was valued at \$96.7 Billion 2023



Projected to reach \$414.1 Billion 2032



Growing at a CAGR 17.2% From 2024-2032

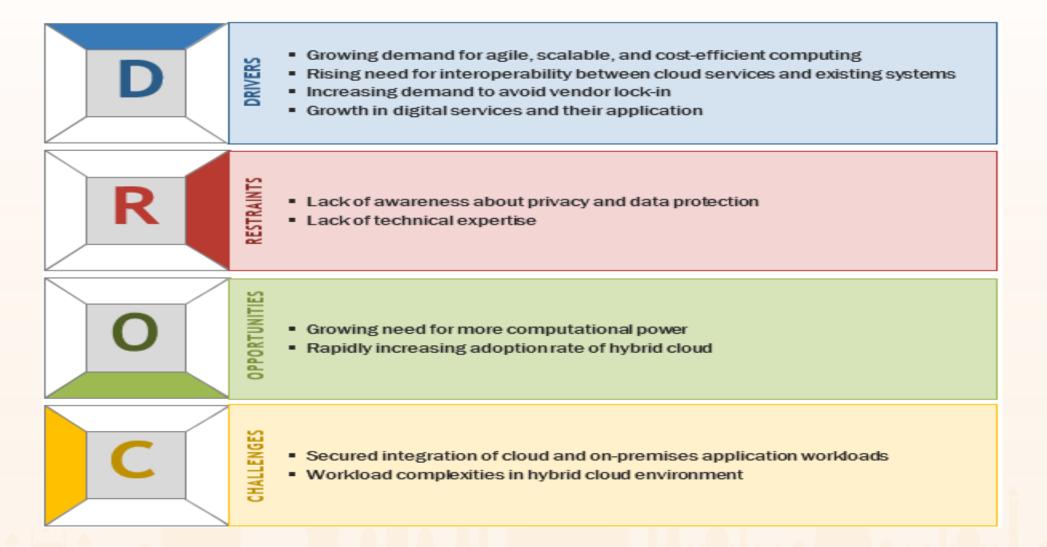


CAGR 17.2%



Source: Allied Market Research

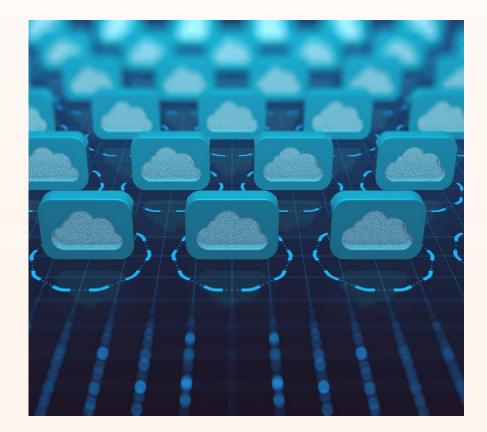
Hybrid Cloud Market





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Advantages of Hybrid and Multi-Cloud Solutions



Flexibility

Hybrid and multi-cloud solutions offer greater flexibility compared to traditional on-premises IT infrastructure. They allow organizations to choose the best cloud environment for each workload, and to move workloads between clouds as needed.

Scalability

Hybrid and multi-cloud solutions offer greater scalability compared to traditional on-premises IT infrastructure. They allow organizations to quickly scale up or down based on changing business needs.

Cost Savings

Hybrid and multi-cloud solutions offer cost savings compared to traditional on-premises IT infrastructure. They reduce the need for organizations to invest in expensive on-site hardware and maintenance.

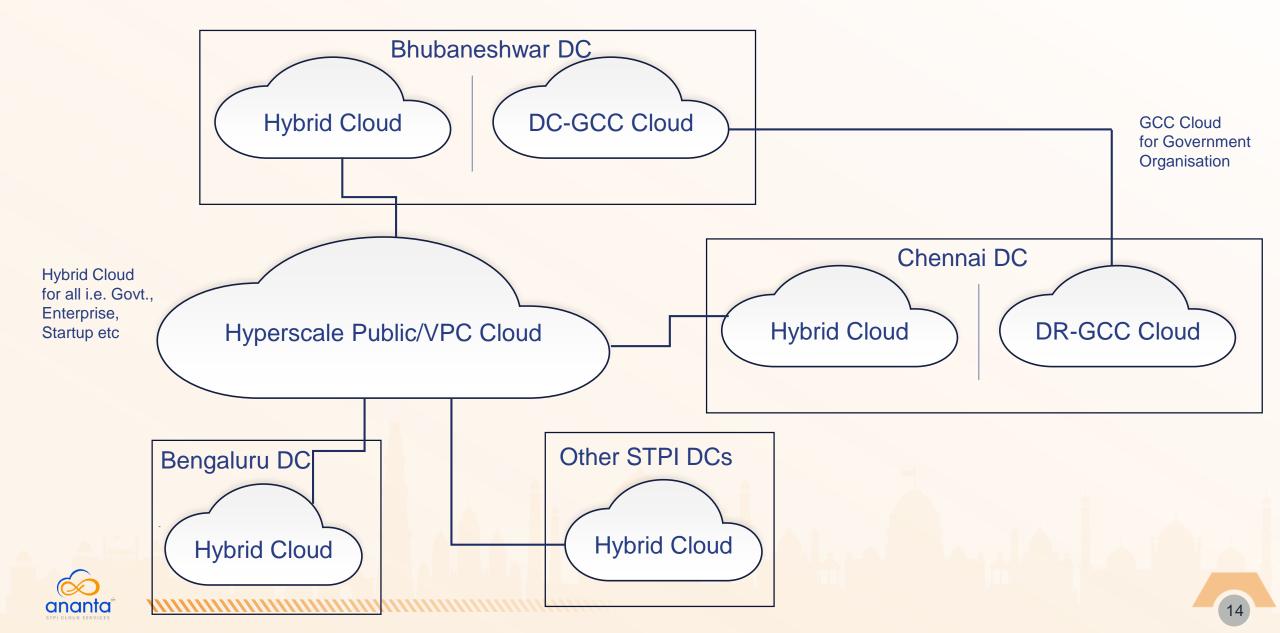


Ananta Cloud

"Ananta is a sovereign and trusted cloud that enables and empowers your organisation to address your current and future business challenges while achieving higher performance and competitive advantage through cloud services. It delivers you the freedom to build, manage, and deploy applications on demand as well as incubate innovations and promote entrepreneurship"



High-Level View of Ananta Cloud



Ananta-Sovereign Cloud





Value Streams





Cloud Service Portfolio



Foundational

CORE laaS - ++

Compute as Service : Virtual Machine, Container as a Service, Serverless

Managed Database as Service (SQL Server, NoSQL)

Storage, Backup and Disaster **Recovery as a Service**

Network as Service: Virtual Network and Load balancer as a Service ,VPN gateway & CDN

Security as Service : Firewall, Web Application Firewall, DDOS, IAM, Threat protection,

Cloud Management and professional Services

Differentiation

Advanced

Optimized

DevOps as a Service

- Low Code Application Development
- Workflow & Integration as a Service
- API Management as a Service PaaS

Application Platform (App Platform) as a Service PaaS

Big Data Analysis as a Service & Data Warehouse as a Service

Data Integration Platform as a Service

Cognitive Services (Computer vision, Language Translation API, Search, ML)

IoT Platform as Service

Business Intelligence & Data Visualization as a service Video and Data Streaming Service

Massive Data Processing Services



Specialized

Next Gen Services

Email, calendar and contacts

Collaboration

Project management

Personal document storage as service

Citizen/Customer relationship case

management

Customer Insights

Field Service

Remote Assist

Sales & Marketing





Configurable



Monitoring and Chargeback



Scalable and Agile



& Deliver

Ananta Foundational Services

Sr No.	Service Classification	Service Descriptions	Service Model	Ananta
1	Core Infrastructure	Virtual Machine	IAAS	\checkmark
2	Core Infrastructure	Serverless	IAAS	\checkmark
3	Core Infrastructure	Container as a Service	IAAS	\checkmark
4	Core Infrastructure	Managed Database as Service (SQL Server, NoSQL)	PAAS	\checkmark
5	Core Infrastructure	Storage as a Service	PAAS	\checkmark
6	Core Infrastructure	Backup as a Service	PAAS	\checkmark
7	Network Services	DR as a Service	IAAS	\checkmark
8	Network Services	Virtual Network	IAAS	\checkmark
9	Network Services	Application Load Balancer	IAAS	\checkmark
10	Network Services	Network load balancer	IAAS	\checkmark
11	Network Services	VPN gateway	IAAS	\checkmark
12	Network Services	Firewall	IAAS	\checkmark
13	Network Services	Public IP	IAAS	\checkmark
14	Network Services	Web Application Firewall	IAAS	\checkmark
15	Network Services	Content Delivery Network	IAAS	\checkmark



Ananta Foundational Services

Sr No.	Service Classification	Service Descriptions	Service Model	Ananta
16	Security Services	Distributed Denial of Services	IAAS	\checkmark
17	Security Services	Cloud based Hardware Security Module	IAAS	\checkmark
18	Security Services	TLS / SSL Certificate Management	IAAS	\checkmark
19	Security Services	Identity and access management	PAAS	\checkmark
20	Security Services	Dual / Multifactor Authentication	IAAS	\checkmark
21	Security Services	Email Gateway Security as a Service	SAAS	\checkmark
22	Security Services	End-Point Threat Detection & Response for Productivity	SAAS	\checkmark
23	Security Services	Unified End Point Security platform	SAAS	\checkmark
24	Security Services	Secure Desktop OS as a Service for enterprise users	SAAS	\checkmark
25	Mangt. Support Services	Operational Metric Collection	IAAS	\checkmark
26	Mangt. Support Services	Alarm Service & Email /SMS/Voice Call Notification Service	IAAS	\checkmark
27	Mangt. Support Services	Subscription management support	IAAS	\checkmark



Ananta Advanced Services

Sr No.	Service Classification	Service Descriptions	Service Model	Ananta
1	App Development Services	DevOps as a Service	PAAS	\checkmark
2	App Development Services	Low Code Application Development	PAAS	\checkmark
3	App Development Services	Workflow & Integration as a Service	PAAS	\checkmark
4	App Development Services	API Management as a Service PaaS	PAAS	\checkmark
5	App Development Services	Application Platform (App Platform) as a Service PaaS	PAAS	\checkmark
6	App Development Services	Low Code Application Development	PAAS	\checkmark
7	Analytics & AI/ML Services	Big Data Analysis as a Service	PAAS	\checkmark
8	Analytics & AI/ML Services	Data Warehouse as a Service	PAAS	\checkmark
9	Analytics & AI/ML Services	Data Integration Platform as a Service	PAAS	\checkmark
10	Analytics & AI/ML Services	Cognitive Services (Computer vision, Language Translation API, Search, ML)	PAAS	\checkmark
11	Analytics & AI/ML Services	IoT Platform as Service	PAAS	\checkmark
12	Analytics & AI/ML Services	Business Intelligence & Data Visualization as a service	PAAS	\checkmark
13	Analytics & AI/ML Services	Video Streaming Service	PAAS	\checkmark
14	Analytics & AI/ML Services	Data Streaming Service	PAAS	\checkmark
15	Analytics & AI/ML Services	Massive Data Processing Services	PAAS	\checkmark



Ananta Specialized Services

Sr No.	Service Classification	Service Descriptions	Service Model	Ananta
1	Productivity Apps	Email, calendar and contacts	SAAS	\checkmark
2	Productivity Apps	Collaboration	SAAS	\checkmark
3	Productivity Apps	Project management	SAAS	\checkmark
4	Productivity Apps	Personal document storage as service	SAAS	\checkmark
5	SaaS COTS Business Apps	Customer relationship case management	SAAS	\checkmark
6	SaaS COTS Business Apps	Customer Insights	SAAS	\checkmark
7	SaaS COTS Business Apps	Field Service	SAAS	\checkmark
8	SaaS COTS Business Apps	Remote Assist	SAAS	\checkmark
9	SaaS COTS Business Apps	Sales	SAAS	\checkmark
10	SaaS COTS Business Apps	Marketing	SAAS	\checkmark



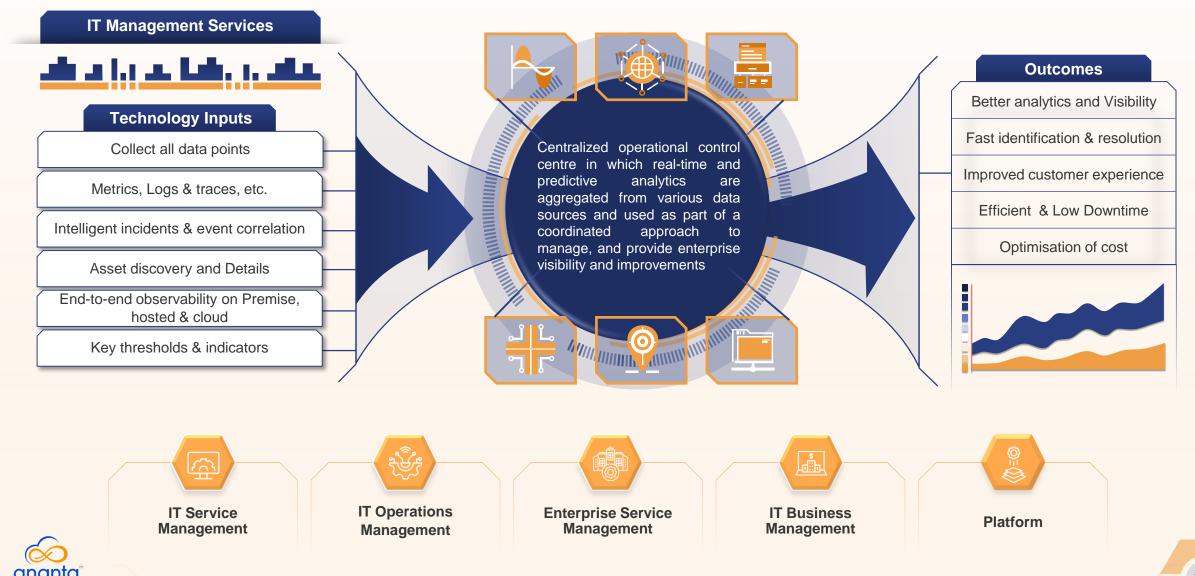
Complete, Comprehensive Cloud Service

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Cloud Adoption and Migration	Cloud Optimisation	Cloud Security	Cloud Operations and Management
Ensure a simple as well as right cloud strategy to adopt and manage your migration to deliver a secure and smooth experience	Cloud is not 'set and forget'. Continuous optimisation can ensure cost control, reduced risk and accelerate innovation.	Strengthen your cyber security defenses with a practical, data-driven approach to reducing cloud vulnerabilities.	Gain the confidence to run your cloud infrastructure, which is fully secure, optimized and compliant.
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Ananta NOC and SOC



Ananta Marketplace

What is it?

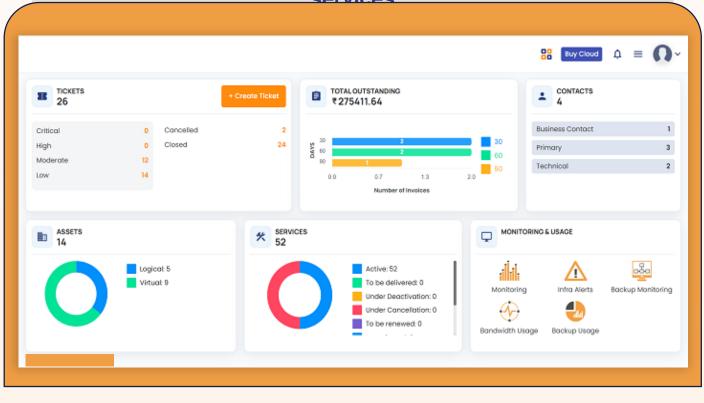
"Ananta Marketplace" helps connect users with its partners, independent software vendors, and startups that are offering their solutions and services, which are optimized to run on Ananta marketplace customers can find, try, purchase, and provision applications and services from hundreds of leading service providers. All solutions and services are certified to run on Ananta.





Customer Portal

One-Stop Shop for Ananta customers to manage their account as well as access, monitor, and manage all their services









THANK YOU