SECURITY

Cloud security is the practice of protecting the data, applications and infrastructure associated with cloud computing. As more businesses adopt cloud services, it is important to protect their sensitive data. As a part of bouquet of offerings, currently Tata Communications Vayu Cloud provides services to protect business-critical traffic and ensure endpoint security.

VPN-as-a-Service

VPN as a service will enable businesses to securely connect their on-premise network to Tata Communications Vayu Cloud network. This will enable the customers to access their cloud resources from anywhere over the internet connection.

Site-to-site VPN

This type of VPN will enable businesses to connect their on-premise network to Tata Communications Vayu Cloud network by enabling peer to peer mapping, creating a secure connection between the two networks.

Client-to-site VPN

This type of VPN gateway enables customers to connect their on premise/cloud network remotely using thick client VPN software.

Vulnerability Assessment and Penetration Testing (VAPT)

Tata Communications VAPT as a service offers identifying and analysing the vulnerabilities within the organisation networks, systems and data. Generally, the VAPT is conducted by specialised tools analysing the data and systems and detailed report is provided at the end of the assessment with the ways to address them.

Benefits of VAPT

Continuous monitoring will enable to identify new vulnerabilities as they arise by maintaining the organisation's posture management intact and up-to-date.

Recommendations are provided by the Tata Communications security experts on the vulnerabilities detected and measures to avert the attack risk.

Reducing the infrastructure cost by providing the solution-as-a-service rather than organisations investing into upfront cost as CAPEX and OPEX.

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Virtual Firewall-as-a-Service

Virtual firewall as a service is offered with Tata Communications Vayu Cloud where the potential malicious network traffic is filtered out. Firewall as a service is easy to scale for organisations compared to traditional firewall services.

Benefits of Virtual Firewall-as-a-Service

Proxy based architecture enables and inspects traffic for all users, applications and devices. It inspects SSL/TLS traffic at scale to inspect and detect malware hidden in encrypted traffic.

Capabilities for IDS, IPS which helps in raising notifications during vulnerabilities and dropping packets if necessary.

Tata Communications also supports Web Application Firewall (WAF), which will enable layer 7 based traffic monitoring over HTTP/ HTTPS.

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Next-Gen Firewall (NGFW)

Tata Communications NGFW provides security policies to block network traffic with malicious content. We provide option from two different vendors to protect and steer customer's internal/external traffic.

Benefits of Next-Gen Firewall

Packet filtering by inspecting individual traffic and blocking dangerous and unexpected packets.

NGFWs uses deep-packet inspection over individual IP by analysing source and destination IP, with body of each packet.

Application awareness control by steering and allowing traffic for only specified application.

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Cloud Security and Posture Management (CSPM)

Identifying and mitigating the risk across cloud infrastructure by using Tata Communications CSPM tool. CSPM is able to handle prevention, detection, response and prediction.

How does Cloud Security work?

With CSPM you can discover and visualise enterprise assets, manage configurations, and remediate problems and provide integration with DevOps tool.

CSPM enables you to access information across multiple cloud environments.

All information pertaining to misconfigurations, metadata, networking and security are automatically discovered upon deployment.

Real time threat detection is also used by CSPM to detect malicious activity, unauthorised activity and unauthorised access.

Benefits of Cloud Security Posture Management

CSPM provides unified visibility across multiple cloud environments.

SOC team become more productive, as false positives are rejected by AI models.

CSPM continuously monitors and assesses the environment to ensure compliance with policies, corrective actions can be quickly initiated when there is drift in policy.

Integrated with Host Intrusion Prevention System (HIPS) to protect your computer from malware and other harmful activities by monitoring your system for suspicious activity.

Identity

Identity is the service which enables businesses to manage and control access to their networks resources and applications installed. It includes tools for user authentication, authorisation, and access management.

Various identity techniques offered by Tata Communications Identity services.

- **Single Sign On (SSO)** to access multiple applications and resources with a single set of credentials.

- **Identity and Access Management** tool to manage and control user access to network resources and applications.

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CONTACT