
With over 10+ years of experience in working with major Data Centers, Banking sectors and ISPs with 150+ engineers having Industry class leading certifications on Cloud, Security, and Management, HashRoot continues to expand its expertise in managing, monitoring and delivering cutting-edge solutions to more than 51,000 servers/network nodes with 800+ active customers from 80+ countries.

As an independent and consulting company, HashRoot helps organizations assess their needs and plan thereby implement the right technology for the goal, budget and timeline. This assures a custom-tailored solution to integrate with existing environments and provides a growth path for the future. We encourage advanced analytics to achieve efficiencies within your business, implementing our global IT infrastructure management services as a catalyst to play in innovation for your business.
**Team Capabilities**

- **Major Certifications**
  - AWS Certified Solutions Architect
  - Information Technology Infrastructure Library (ITIL)
  - Cisco Certified Network Professional (CCNP)
  - AWS Certified DevOps Engineer
  - VMware Certified Techs
  - Openstack Certified Tech

- **Security Certifications**
  - Certified Ethical Hacker (CEH)
  - Certified Cloud Security Professional (ISC)^2
  - SANS GIAC

- **Microsoft Certifications**
  - Microsoft Certified Solutions Expert (MCSE)
  - Microsoft Certified Technology Specialist (MCTS)
  - Microsoft Certified IT Professional (MCITP)

- **Red Hat Certifications**
  - Red Hat Certified Engineer (RHCE)
  - Red Hat Certified Security Specialist (RHCSS)
  - Red Hat Certified System Administrator (RHC-)
  - Red Hat Certified Virtualization Administrator (RHCVA)

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- **150+ SERVER ENGINEERS**
- **85 COUNTRIES SERVED**
- **10+ YEARS IN INDUSTRY**
- **16M+ TICKETS RESOLVED**
- **5 INTERNATIONAL AWARDS**
- **100% REFUND POLICY**
- **51,000+ SERVERS MANAGED**
- **GDPR COMPLIANCE**
Global Footprint

We have developed a global sales network to reach out to clients across the world. As of Jan 2018, HashRoot is incorporated at London, UK and India and have sales offices in US, Singapore & UAE and catering clients from 80+ countries. We are focusing on a strategic market expansion towards future and looking forward to expand our global presence in Canada, Australia.

Awards & Achievements

HashRoot is proud and dependent on its extraordinary team of talented and hardworking employees. We give high priority for our employee morale, which in turn has gained us recognition as a “Great Place to Work”. Achievements encourage us to earn more acknowledgments, motivates us to accomplish more, scale greater heights in excellent client servicing and support.
Infrastructure Management

In today’s world of growing business needs, the organization’s ability to manage the business efficiently solely depends on your IT infrastructure. Your IT infrastructure should be flexible enough and future-proofed to adapt to constant changes in the business objectives and it has to meet the demand of each and every user relying on it. To cater to these needs, an organization requires a trusted, technically superlative, expertise infrastructure management specialists and HashRoot, a renowned infrastructure management firm hold such specialists.

Hybrid Infrastructure Design/Deployment

Our skilled and experienced team of IT architects are passionate in exploring new technological advancements and stay updated to the current technology trends. We strengthen your infrastructure to ensure proper operational requirements, storage, and security. Our infrastructure design and deployment services range from Network design, virtualization, Data and storage, security solutions, WAN optimization etc.

What Do Our Services Cover?

- IT infrastructure audit and analysis
- IT solutions design considering the business needs
- Seamless migration and optimization of IT infrastructure

VMware Cloud on AWS implementation

vRealize Suite, ISV Ecosystem

Operational Management

vCenter Server

vSAN

vSphere Including VIC

NSX

Native AWS Services

Customer Data Center

AWS Global Infrastructure
Infrastructure Migration

Holding expertise in successful infrastructure migration, we formulate a proven approach which includes initial analysis, migration plan development, and pre-migration testing to ensure a seamless transition with minimum downtime by mitigating risks and improving operational excellence.

HASHROOT INFRASTRUCTURE MIGRATION SERVICES

- Data Center Migration
- V2V Migration (Virtual to Virtual)
- V2P Migration (Virtual to Physical)
- P2P Migration (Physical to Physical)
- P2V Migration (Physical to Virtual)

Data Migration

HashRoot ensures seamless data migration to various storage and application by consolidating data from different systems possessing different structures. We ensure quick and secure data migration.

Configuration Management

IT services are a building block of components including software, middleware, servers, and information. It is necessary to properly identify, maintain and verify attributes of IT assets and configuration across every service in your infrastructure. HashRoot constantly addresses the assets you use to deliver IT services and tracks the configuration between various components of your IT services.

Infrastructure Optimisation

At HashRoot, we offer top-notch infrastructure optimization services that help you encompass your IT infrastructure with evolving business goals and objectives. We possess a team of talented experts and process driven methodologies to achieve optimal performance of your IT environment. Converged infrastructure solutions from HashRoot improve application performance, enhance the efficiency, simplify network complexity, protects critical applications in any size IT infrastructure including physical, virtual and cloud applications.
Data Warehousing

HashRoot is renowned for architecting scalable and secure data warehouses within various types of storage platforms, both on-premises and in the cloud that can be enhanced as your business grows.

- Data warehouse environment assessment.
- Data warehouse engineering and modernization.
- Database architecture design and modeling.
- Development and maintenance of ETL processes.
- Design and maintenance of data stores & data marts.
- Big Data component engineering & implementation.

Database Management

Availability, performance, and functionality of the database will be assessed round the clock to increase database performance and to detect database outages. We proactively measure the performance metrics such as schema statistics, resource consumption, database objects and so forth.

- Database architecting
- Schema design and modeling
- Database administration
- Monitoring and reporting
- Upgrades and Migrations
- Backup and recovery
- High availability and clustering
- Disaster recovery planning and execution
- 24×7 global support

VIRTUALIZATION

HashRoot allows an organization to make a successful transition to a virtualized environment using industry dominating tools. Our virtualization service focus on AWS, Azure, On-premise hybrid including hyper-converged infrastructure and custom deployment on VMware cloud extension on AWS.

We support the management of following products:
System Management

System management is made easy with HashRoot as we offer a dedicated comprehensive infrastructure management services which are capable of managing servers running Linux, Microsoft Hyper-V, Microsoft Windows, VMWare ESXi. We proactively reduce complexity and increase the efficiency of your systems by handling backup and monitoring functions, centralizing control, active directory services, automating routine maintenance tasks, antivirus endpoint protection and so forth to manage the resources and meet challenges.

Network Management

HashRoot’s network management experts offer a viable solution by clearly evaluating your network management strategy. We ensure to keep your network running efficiently and securely in synchronized with your provisioning process. Our technically formulated proven approach improves your network visibility, leverage the latest mobility and cloud solutions in an economically savvy way.

Storage Management

HashRoot lends a support to plan and implement the best storage management strategy considering the characteristics of data generated, transfer, storage, archiving and retrieval mechanisms. Our unrivalled technical expertise in storage management proposes you with appropriate solutions by identifying your critical data, data monitoring, implementing secured storage mechanisms, backup and disaster recovery options.

What Do We Cover In Our Storage Management Services?

- Storage Initialization
- Storage Monitoring
- Patch Management
- Storage Hardware Management
- Storage Configuration
Cloud Offerings

Cloud Infrastructure Design
Backed by a professional architecture team and multi-cloud approach to cloud architecture design, HashRoot assesses your workload and application needs, to choose the right cloud platform. These platforms either include public cloud services such as Azure and Amazon or our own private cloud hosted in our local data centers.

Cloud Architecture Design Process

PRIVATE CLOUD DESIGN

Holding an unrivaled technical experience, our design and engineering team can effectively handle the risk out of cloud deployments and optimize your private cloud infrastructure for efficient implementation. We formulate marketed-tested best cost-effective solutions in stipulated time to ensure your private cloud meets your business requirements. HashRoot offers a wide range of implementation services to ensure a smooth transition to cloud infrastructure with integrated security, resiliency, and scalability.

Our Strategic Process

DESIGN
HashRoot translate the business requirements into technical requirements by sketching different private cloud options and by developing different machine images considering your key business requirements. We then evaluate the cloud orchestration platforms and then build the design by integrating the services with existing systems.

IMPLEMENTATION AND MANAGEMENT
We configure and implement orchestration platforms and cloud automation with DevOps integration. To facilitate management of your cloud resources quickly and easily, the implemented orchestration platforms possess features such as Showback / Chargeback, Service catalog, Quota management, Self-provisioning, re-harvesting of VM etc.

MONITOR
We adopt a unique strategy to monitor your private cloud infrastructure round the clock. We ensure a secure environment that adheres to your organizational security and access policies. We also effectively prevent configuration drift making use of top-notch configuration management tools.
Hybrid Cloud Design

Do the different business units of your organization employ different applications that run in their own clouds? Then, Hybrid cloud design is the feasible option for your organization where you can deploy the complementary strengths of both the private cloud and public cloud. This hybrid model enables businesses to achieve higher levels of scalability, agility, and efficiency.

HashRoot, are the pioneers in offering next-gen public cloud services with certified architects. No matter which industry you belong to, HashRoot holds an exemplary experience in designing architectures and implementing secure, compliant and scalable architectures for a spectrum of industries including IT corporates, Banking and Financial sectors, Healthcare, e-commerce, Media etc.

Our next-gen public cloud managed services offerings include

- Architecture designing and migration
- 24/7 Support including Disaster Recovery
- Round-the-clock monitoring to detect any cases of abnormalities, behaviour intrusion etc
- Automated backups and recovery to protect your business from data loss, security threats, and outages
- Constant traffic flow analysis and ITIL management
- Regular security audit to identify gaps in the existing system

Hybrid Cloud Design

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Hybrid Cloud Services We Render

At HashRoot, our hybrid cloud consultants work with you to fabricate a cloud architecture layout considering your business requirements. In order to enable you to manage your private cloud and public cloud resources from a single management console, we will effectively design and implement a cloud orchestration platform.

Virtualization

Orchestration platform

CLOUD MANAGED SERVICES

HashRoot's cloud managed services assist you to build your cloud strategy and offers an exceptional administrative and monitoring capabilities for your cloud infrastructure.
At HashRoot, we build automation for your non-automated workforce reducing cost spent on a manual task. We adopt the latest technology and take a holistic approach to drive innovation, process streamlining, improve productivity. We possess experience in elevating the business value by providing a competitive edge across sectors including IT, banking, automobile and manufacturing.

**DevOps Workflow**

With some of the best automation tools, we offer IT Infrastructure automation on these areas:

- Network automation
- Backup automation
- Scalability automation
- Failover automation
- Security automation
- Storage automation
- Ticket automation
- Customized automation
HashRoot extends its services to help you to containerize your application in the scalable environment using market dominating tools. We also help you to manage, monitor, troubleshoot and scale your environment. Apart from that we also focus on networking and security aspect of your containers.

HashRoot excels in writing robust codes for your infrastructure and this approach simplifies the large-scale configuration management and let you make infrastructure changes more reliably, rapidly, and safely. We support infrastructure as code for the following platforms.

CONTAINERIZATION

INFRASTRUCTURE AS CODE
HashRoot can redefine your core business process to achieve dramatic improvements in productivity, cycle times and quality. We help you determine the extent of change needed to realize tangible business benefits tailored to your market environment by identifying the capabilities and benchmarking current implementations against best-in-class industry standards.

**DEVSECOPS**

Information security is building on the push within DevOps teams for collaboration and automation by introducing another concept, DevSecOps. DevSecOps provides security practitioners with the ability to script and monitor security controls at a much larger and more dynamic scale than traditional in-house data centers. Security can benefit from automation by incorporating logging and event monitoring, configuration and patch management, user and privilege management, and vulnerability assessment into DevOps processes.

HashRoot DevSecops operates in following areas

- Automate collecting application-level security metrics
- Schedule security scanning
- Perform vulnerability scanning
- Offer assistance for bug bounty scanning
- Drafting incident response plan
- Provide insight to drive a threat intelligence program
Our Network Device Monitoring service monitors the network access devices. Monitoring the quality of network channel to detect jitter, packet loss and latency.

Network interface monitoring to detect errors, traffic, packets, discards.

Monitoring network protocols including ICMP, HTTP, TCP, SSH, FTP, SMTP...

Network bandwidth utilization of links, and other aspects of an operation.

Rapid detection of threats and attack.

Constant monitoring of networking devices like routers/switches.

Advanced reporting, alerting & notification via email.

Port & Interface Monitoring

Flow-based network traffic analysis

DNS & Load Balancers Monitoring

Processor (CPU) utilization of hosts

Predict and pinpoint network outages

Monitor bandwidth consumption

Detect performance degradation

Our round the clock network monitoring and management solutions ensure consistent end-to-end network ability for your critical systems. We quickly detect and mitigate the performance issues in your virtual, physical, hybrid and cloud network environments.

HashRoot's comprehensive and advanced 24/7 NOC services hold the industry's leading service management platform to meet your infrastructure support requirements. Our secured NOC platform can help your organization cut cost by offering the most advanced and efficient workflow management.

NOC Offerings
SERVER AND STORAGE MONITORING

With HashRoot, your server monitoring is made easy and we are eminent in intercepting issues before they disrupt your server. Including a flexible pricing structure, we offer a complete range of efficient server monitoring services to global clients. HashRoot also extend its services to offer a complete storage monitoring services for CX, VMAX, VNX and Isilon, Dell Compellent and EqualLogic, OnTap 7, 8 and Cluster-Mode, EMC Clarion, HP EVA and 3PAR, VSP and USP, NetApp OnTap 7, 8.

- Server resources monitoring (directories, server files, Syslogs, event logs etc)
- Monitoring disks, aggregates, power supplies etc
- Hardware and Virtualization monitoring
- RAID group, RAID array status, Storage enclosures, aggregate monitoring
- Storage usage reporting, file count, and future capacity need planning
- Capacity and throughput monitoring
- Monitoring disk usage, directory size, cache efficiency, power consumption etc
- Mapping of service impact relationship between components

CONTAINER MONITORING

HashRoot lend container monitoring support to organizations that strive to accelerate their digital transformations. We proactively act on stability and performance issues, adding new containers, service updations and thereby enhancing the end-user experiences.

- Container resource utilization
- Networks
- Container Performance
- Application Endpoints
- Overall Container metrics

APPLICATION MONITORING

HashRoot's application monitoring provides you a thorough performance metrics by monitoring the real-time aspects of your environment. We also assess the performance of the application at the component level and the end-user experience.

- Monitoring the performance of discrete web requests
- Depict the performance at the code level
- Detecting the performance and usage of application dependencies
- Monitoring the basic server metrics and application framework metrics
- Development of custom application metrics
- Analyse application log data to detect errors, events, warnings etc
- Detect and fix application errors

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DATABASE MONITORING

HashRoot’s database monitoring safeguards your database, which is the storehouse of your business process to ensure smooth business operation and customer satisfaction. Availability, performance, and functionality of the database will be assessed round the clock to increase database performance and to detect database outages. We proactively measure the performance metrics such as schema statistics, resource consumption, database objects and so forth.

- Ensure high availability of database servers
- Constant tracking on the database size, buffer cache size, database connection time
- Prompt detection and fix on failures and database outages on object level
- Top to bottom analysis of database architecture and statements
- Analyse the usability of the database at regular intervals
- Predictive analysis of database storage requirements and index performance
- Check the accessibility of the database by various applications
- Detailed check on database load, failure rates, response times etc

SECURITY AND FIREWALL MONITORING

In order to respond to the threats before getting damaged, continuous security and firewall monitoring are indispensable. HashRoot boosts your firewall security by offering 24/7 real-time top-notch firewall management services including log monitoring, firewall administration, network visibility, threat detection etc

- We control your business security through authorized access
- Guarantee enterprise security using SIEM tools
- Support for remote access VPNs using IPSec
- Firewall log analysis to detect security threat and traffic behavior
- Customizable reporting tailored to specific users
- Provides comprehensive log archives and routine reports

IOT MONITORING

HashRoot efficiently customizes your IOT monitoring modules thus making sure that your device communicates well, receiving updates and functioning properly as per standards.

- Monitoring the availability of hardware and software component and evaluation of information from log files, protocols, process tables etc
- Interrogation Monitoring and service monitoring
- Monitoring the performance of hardware and software component
- Comprehensive and complete agent-based and agentless monitoring
We have an intelligent alerting system where our monitoring team works with the DevOps team to update and upload the threshold requirements to the monitoring engine and automate the alerts. You will get instant alerts via email, SMS & optional messaging tools like slack to choose from. We have flexible alerting options to choose from for the customer's end. Our monitoring engine not only alerts the users but also creates a ticket and assign it to respective subject matter experts [SME] to rectify and fix the issue.

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**ALERTING**

**HASHROOT IMS NOC PACKAGE**

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**COST EFFECTIVE PACK**

- openNMS
- ZABBIX
- elastic
- HASHROOT ALERTING MODULE

**BASIC**

- slack
- tickets
- ZABBIX
- DATADOG
- HASHROOT ALERTING MODULE

**STANDARD**

- elastic
- solarwinds
- HASHROOT ALERTING MODULE

**EXCLUSIVE SUITE PLATINUM**

- AUTOMATION
- USM
- HASHROOT ALERTING MODULE

- pagerduty
- tickets
- elastic
- Prometheus

- slack
- solarwinds

- splunk
- Sysdig

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HashRoot, one of the leading information security service providers are backed with skilled and experienced cyber security specialists. With a blend of technical knowledge and formulated approach we offer consultation services and outsourced managed services to build cyberspace a more secure place. Our enterprise level security solutions offer a full spectrum of services including managed security, identity access management, threat anticipation, incident analysis, security monitoring etc.

**Our comprehensive SIEM Services**

Our managed SIEM services handled by a team of skilled and experienced security specialists perform a round-the-clock proactive monitoring to detect, access, report and remediate security breaches. Utilizing our round the clock SIEM services, you can eliminate the cost of investment for setting up an in-house security operations centre (SOC). We are capable of shielding your organization’s complex infrastructure from the rising cyber threats by building a deeply personalized security environment, centralised visibility of security data and by providing actionable guidance.

As cyber threats are becoming increasingly complicated, AI and machine learning are being adopted in cyber security for detecting attacks and reacting to breaches. AI can automate the complex process of safeguarding the enterprises against sophisticated hackers, hence, most of the organizations are ready to deploy AI to bolster cybersecurity. HashRoot can reform your organization’s cybersecurity with AI based solutions to stay ahead of threats. We wipe out the vulnerability and hamper it from further vulnerabilities permanently.
01 Predictive Analytics
A series of predictive analytics to discover and eliminate a security breach right before it happens.

03 Pattern Recognition
An effective way to deter insider threats by identifying phishing emails, malware etc.

02 Anomaly Detection
Analyse the behaviour of traffic flow to identify the patterns and detect anomalies in real time to get rid of the risk of data stolen.

02 Natural Language Processing
By converting unstructured text to structured intelligence, NLP enables analysts to identify vulnerable code segments.

OUR COMPREHENSIVE SOLUTIONS

MANAGED SECURITY SERVICES
IT systems and networks are becoming more vulnerable with the rapid expansion of critical data. Our automated security management services enable our clients to accomplish business resilience, while securing vital data assets and meet compliance regulations.

<table>
<thead>
<tr>
<th>Security Management and Orchestration</th>
<th>Advanced Threat Services</th>
<th>Vulnerability Management</th>
<th>Security Monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firewall Management</td>
<td>Endpoint Threat Detection &amp; Prevention</td>
<td>Vulnerability Scanning</td>
<td>Log Management &amp; Retention</td>
</tr>
<tr>
<td>IDS/IPS Management</td>
<td>Malware Protection &amp; Detection</td>
<td>PCI Scanning</td>
<td>Security Event Monitoring</td>
</tr>
<tr>
<td>Next Generation Firewall Management</td>
<td>Threat Hunting &amp; Recovery Management</td>
<td>Policy Compliance</td>
<td></td>
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<tr>
<td>Web Application Firewall Management</td>
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HashRoot threat intelligence services protects your business to get ahead of the cyber threats through proactive reporting, actionable analysis and detailed remediation guidance. Our services focus on strategic planning, threat communications, technical solutions to enhance your visibility into the threat landscape which affects your organization directly or indirectly.

HashRoot can help your organization with qualified and skilled security specialists to set up a secure environment by applying proven methodologies and up-to-date technology practices. We set up a security architecture in align with your business goals, technology requirements, security and compliance.

**OUR THREAT INTELLIGENCE SERVICES COVERS THE FOLLOWING AREAS:**
- Identify unusual behaviour
- Study threat actor behaviour, techniques, & procedures
- Discovering emerging threats

**SECURITY ARCHITECTURE IMPLEMENTATION**
- Cloud security Architecture
- Enterprise security Architecture
- Endpoint Security Architecture
- Network security Architecture
## Security Consultation

Our security consulting services presents the expertise and demonstrated approach to develop an actionable plan thereby, enhancing your IT security stance. We perform full assessment of your security environment to detect any mess and to reduce your information security risk.

<table>
<thead>
<tr>
<th>Security Program implementation</th>
<th>Identity &amp; Access Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threat &amp; Vulnerability Management</td>
<td>Enterprise Risk &amp; Compliance</td>
</tr>
<tr>
<td>Security Incident &amp; Response Management</td>
<td>Education &amp; Awareness</td>
</tr>
<tr>
<td>Security Architecture and Implementation</td>
<td>Managed Security Services</td>
</tr>
</tbody>
</table>

## SECURITY ASSESSMENT / FORENSICS

We are enrolled with a team of well-skilled and experienced network security specialist who carry out an online audit, data investigation including deleted data, malware analysis etc and present you with a detailed report to make you understand what happened, and suggests remediation plans and security enhancements.

<table>
<thead>
<tr>
<th>File analysis</th>
<th>Registry analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database forensics</td>
<td>Malware analysis (static and dynamic)</td>
</tr>
<tr>
<td>Email analysis</td>
<td>Digital forensics readiness assessment</td>
</tr>
<tr>
<td>Network log correlation and predictive analytics</td>
<td></td>
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</tbody>
</table>

## 24/7 CORE SUPPORT

| A quick analysis, detection and removal of critical vulnerabilities and malicious software |
| Recommendations for security enhancement and safeguarding information |
| Contingency plan implementation |
| Conduct Incident investigation, detailed reporting and forensics |
| Service Level Agreements (SLAs) |
| 24/7 consultation support |
Penetration Testing Services

- Network Penetration Testing
- Web Application Penetration
- Mobile Application Penetration
- IoT and Internet-Aware Device Testing
- Social Engineering Penetration
- Red Team Attack Simulation
- Wireless Network Penetration

Penetration Testing Methods

- Black Box testing
- White Box testing
- Grey Box testing

Pre-Attack Phase / Planning

- Interpretation of the intruder model
- Define source data, goals and testing targets
- Ascertain the scope of a target environment
- Testing methodology development
- Device interaction and communication approach
- Penetration testing

Attack Phase / Testing

- Real-time analysis
- False positives elimination
- Periodical reporting
- Scanning and detection of vulnerabilities detection and scanning
- Exploitation of vulnerabilities by gaining an unauthorized access

Post-Attack Phase / Reporting

- Analysis of outcomes and recommendations for security enhancements
- Visual display of the destruction caused to the system by an attacker
- Remedial suggestions for detected vulnerabilities

The blend of negligence and apparently minor vulnerabilities may wind up with serious consequences and lead to the data breach. To prevent your organization from potential security and data breach against a skilled attacker, HashRoot team offers penetration testing services. We reduce the security thefts across your business by pinpointing vulnerabilities and misconfigurations in your security systems that may lead to a multistep attack that targets custom network infrastructure and applications.
HashRoot is renowned for offering Managed DDoS Attack Mitigation Service to keep your business up. Our real-time comprehensive traffic monitoring utilizing multilayered anomaly detection methodologies ensures the DDoS attack traffic is filtered right before it blocks your network. Our DDoS specialists safeguard your infrastructure 24/7 against malwares, data theft, network downtime, network anomalies, vulnerabilities and so forth.

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**Identify**

- **Cloud Scrubbing**
- **On Premise Scrubbing**

**Filter**

- **Hashroot Threat Intelligence Feed**

**Analyze**

- **APPLICATION TIER**

**SENSORS**

- **SECURITY TIER**
- **NETWORK TIER**

**Traffic Clearing**
- BGP Hijacks
- DNS Poisoning
- DDoS Attack

**Server-Level Anomaly Detection**
- Security event monitoring
- SIEM integration
- Cloud DDoS Support
- Automatic diversion of traffic via cloud scrubbing & On premise center.

**Network-Level Traffic Pattern Analysis**

**Application layer DDoS protection | Mitigation**

**Network layer DDoS protection | Mitigation**

**DDoS protection for DNS servers**

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The Internet of Things, being the latest in the technological advancement, enables an organization to transform business needs into actionable intelligence by achieving higher levels of efficiency. However, to fully harness the power of gaining operational efficiency, organizations should adopt the right IoT strategy. HashRoot's smart IoT approach helps an organization to seamlessly bridge the physical and digital world by delivering innovative solutions. Our team of IoT experts is prominent in offering exceptional design and automation, and we also provide support on AWS and Azure IoT modules.