

DigiCert UltraDNS Private Data Lake



Turn DNS data into actionable intelligence

DNS generates a wealth of operational, security, and performance data. As digital environments grow more complex, organizations need a scalable way to retain, analyze, and apply that data across their operations.

DigiCert® UltraDNS Private Data Lake provides a secure, private environment for analyzing DNS query data. It gives organizations greater control over their data and the flexibility to perform advanced analysis using familiar analytics tools.

With deeper visibility into traffic patterns, query behavior, performance, and network activity, teams can identify trends, investigate anomalies, support compliance initiatives, and make more informed decisions.

Why UltraDNS?



High-performance infrastructure

UltraDNS Private Data Lake works with DigiCert's authoritative DNS infrastructure to support the efficient collection and analysis of large volumes of DNS query data.



Reliable data access

A resilient global infrastructure helps ensure DNS data remains available for ongoing analysis, reporting, and operational decision-making.



Security and compliance

A secure, private data environment helps organizations meet data governance and retention requirements while using DNS intelligence to support security and compliance initiatives.

Key benefits



Complete DNS visibility

UltraDNS Private Data Lake works with DigiCert's authoritative DNS infrastructure to support the efficient collection and analysis of large volumes of DNS query data.



Extended data retention

Retain large volumes of DNS query data for longer periods to support historical analysis, investigations, reporting, and regulatory requirements.



Advanced analytics

Analyze DNS activity to uncover trends, investigate anomalies, assess performance, and identify potential threats or configuration issues.



Flexible and scalable

Scale alongside growing DNS traffic and evolving analytics requirements without compromising performance or control.

How it works

1 | Data collection



UltraDNS collects DNS query data generated across the organization's DNS environment.

2 | Data processing



The data is processed at regular intervals and prepared for downstream analysis.

3 | Private storage

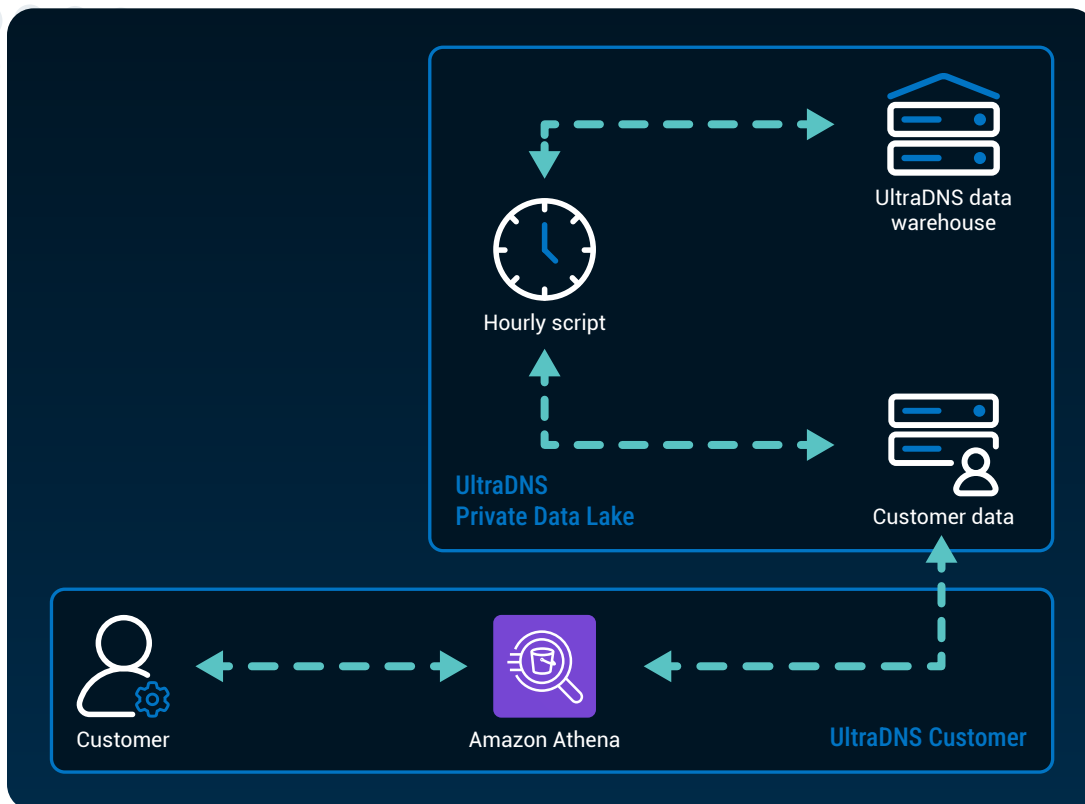


Processed data is transferred to the organization's private data lake, providing a secure repository for DNS analytics.

4 | Query and analysis



Teams can use compatible analytics and query services, such as Amazon Athena, to analyze the data with standard SQL and integrate DNS intelligence into existing workflows.



UltraDNS Private Data Lake dataset

The UltraDNS Private Data Lake dataset includes a comprehensive set of metrics and attributes for DNS analysis.

DNS query types and response codes	- Analyze DNS query types and operation codes - Review response codes, including successful responses, errors, and server failures
Query volume and performance	- Measure total IPv4 and IPv6 DNS query volumes - Break down queries by TCP and UDP protocols - Analyze query counts across response-time categories
Technical DNS data	- Review answer, nameserver, additional, and query record counts - Evaluate DNSSEC indicators and packet error codes
Resource record details	- Access resource record classes, types, TTL values, and associated data - Analyze record-level information for troubleshooting and operational review
Geographic and network intelligence	- Review Autonomous System Number data and resolver IP addresses - Understand query distribution across networks and geographic locations

Put DNS intelligence to work

UltraDNS Private Data Lake enables organizations to analyze DNS performance, security, and compliance data at scale. Teams can track query volumes, uncover traffic patterns, investigate anomalies, assess infrastructure performance, and identify potential threats or misconfigurations.

Geographic and network data also helps organizations understand how DNS traffic is distributed, identify unexpected activity, and make better-informed decisions across security and operations.

About DigiCert

DigiCert is a global leader in intelligent trust. We protect the digital world by ensuring the security, privacy, and authenticity of every interaction. Our AI-powered DigiCert ONE platform unifies PKI, DNS, and certificate lifecycle management, to secure infrastructure, software, devices, messages, AI content and agents. Learn why more than 100,000 organizations, including 90% of the Fortune 500, choose DigiCert to stop today's threats and prepare for a quantum-safe future at www.digicert.com.

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