



Enterprise-Class Data Management,
Security, Performance and Availability

NetSuite Data Centre



Oracle NetSuite currently operates geographically distinct data centres across North America, Europe, and Asia-Pacific. Each data centre has a counterpart that provides data mirroring, disaster recovery and failover capabilities in its region in case any data centre becomes non-operational. The NetSuite service is natively multi-tenant and leverages cloud infrastructure designed around multiple layers of redundancy.

Data Centre Locations

North America

- Ashburn
- Boston
- Chicago
- Phoenix
- San Jose
- Santa Clara
- Seattle

Asia-Pacific

- Melbourne
- Osaka
- Sydney
- Tokyo

Europe

- Amsterdam
- Dublin
- Frankfurt
- London
- Newport



NetSuite Data Centre Infrastructure

Data Management

- **Redundancy:** Many layers in the NetSuite system contain multiple levels of redundancy. This design allows uninterrupted service because redundant systems automatically assume processing in the event that one or more elements fail.
- **Disaster Recovery (DR):** Within each region, data is replicated and synchronised between data centres. Semi-annual DR exercises ensure that systems and processes are in place, as well as to assess and enhance the competency of all personnel key to the successful implementation of DR activities. Data centres use archival backups to support customer-initiated data restores for 60 days.
- **Scalability:** NetSuite supports over 33,000 customers with over 1.5 billion application requests per day and more than six petabytes of data under management. The system has been designed to accommodate routine surges and spikes in usage, and to scale upward smoothly to address increased transaction volume.

Product Security

- **Encryption:** Transmission of user credentials, as well as all data in the resultant connection, are encrypted with industry standard protocol and cipher suite. NetSuite supports Custom Attribute encryption and provides encryption APIs. NetSuite uses token-based application authentication and multi-factor end-user authentication.
- **Role-Level Access and Idle Disconnect:** Each end user can be assigned a specific role with permissions that are specific only to his or her own job. There is a complete audit trail that tracks changes to each transaction by the user login details and a timestamp.
- **Multi-factor authentication (MFA):** Multi-factor authentication (MFA) is another layer of securing user access to your NetSuite account. In addition to a username and password, a role can be configured with an additional layer of protection where users provide a verification code. The verification code can be obtained from an authenticator app, or for example, by a message sent to a mobile phone.

- **Robust Password Policies:** Customers have granular password configuration options, ranging from the length of the passwords to the password expiration policy. They can set up strict policies to ensure that new passwords vary from prior passwords and that passwords are complex enough to include a combination of numbers, letters and special characters.

Operational Security

- **Continuous Monitoring:** NetSuite employs both network and server-based Intrusion Detection Systems (IDS) to identify malicious traffic attempting to access its servers and networks. Security alerts and logs are sent to a Security Information and Event Management (SIEM) system for monitoring and response actions by a dedicated security team.
- **Separation of Duties:** In addition to mandatory employee background checks at all levels of the operations organisation, job responsibilities are separated. The Principle of Least Authority (POLA) is followed and employees are given only those privileges that are necessary to do their duties.
- **Physical Access:** All data centres maintain stringent physical security policies and controls including photo IDs, proximity access cards, biometrics, single person entry portals and alarmed perimeters.
- **Dedicated Security Team:** Oracle NetSuite employs a global security team dedicated to enforcing security policies, monitoring alerts and investigating any anomalous system behaviour including unauthorised connection attempts and malicious software. Near real-time monitoring is in place with a 24x7 worldwide incident response capability. All access to production is approved and regularly reviewed by the security team.
- **Data Centre Performance Audits:** There are auditing controls appropriate for SOC 1 Type II, SOC 2 Type II, ISO 27001 and PCI compliance. NetSuite has implemented a comprehensive risk management process modeled after the National Institute of Standards and Technology's (NIST) special publication 800-30 and the ISO 27000 series of standards. Periodic audits are carried out to help ensure that personnel performance, procedural compliance, equipment serviceability, updated authorisation records and key inventory rounds meet or exceed industry standards.

- **Security Certifications:** Oracle NetSuite issues reports upon the completion of periodic SOC 1 Type II and SOC 2 Type II audits and is certified for PCI DSS and ISO 27001:2013.
 - Oracle NetSuite has defined its Information Security Management System in accordance with NIST 800-53 and ISO 27000 series standards.
 - Independent third-party auditors prepare and conduct SOC 1 Type II and SOC 2 Type II audits. A SOC 1 Type II audit report is essential to meeting the reporting requirements on the effectiveness of internal controls over financial reporting of Section 404 of the Sarbanes-Oxley Act. SOC 2 Type II reports on controls that directly relate to the security, availability and confidentiality trust services criteria at a service organisation.
 - PCI DSS is a security standard designed to ensure that companies are processing, storing and transmitting payment card information in a secure environment. A PCI Qualified Security Assessor (QSA) issues an Attestation of Compliance (AOC) to NetSuite.
- **Privacy Certifications:** Oracle NetSuite performs reviews and annual audits, conducts privacy risk management and oversees remediations, oversees privacy by design in technology and processes has a third-party vendor management programme to ensure that the suppliers adhere to the privacy regulations, and is committed to maintaining and improving its privacy information management and data protection programmes. Oracle NetSuite also provides Product Feature Guidance documents that describe how the service functionality is designed to assist customers with their privacy requirements.
 - Oracle NetSuite has extended the ISO 27001 Information Security Management System to include the ISO 27018 control set, demonstrating protection and adequacy for processing Personal Information as a Public Cloud Hosting Provider.
 - Oracle NetSuite's adherence to the EU Cloud Code of Conduct (CoC) has been verified and published on the monitoring body's [public registry](#). The CoC has been designed to define general requirements for cloud service providers as processor, demonstrating sufficient guarantees under Art. 28.1-4 of EU General Data Protection Regulation (GDPR).

- o Oracle Corporate (Oracle EMEA Ltd) has obtained EU/EEA-wide authorisation from the European data protection authorities for its Binding Corporate Rules for Processors (“BCR-p”). This helps our customers address their privacy and security requirements under GDPR and other European data protection laws and regulations in the EU/EEA, the UK and Switzerland (“European Data Protection Law”) See the [Privacy Code for Processing Personal Information of Customer Individuals \(Oracle Processor Code\)](#).

Performance

- **Scalable Application Architecture:** The NetSuite application runs on a three-tiered architecture supported by additional specialised services. All tiers are highly scalable and support multi-data centre deployment.
- **Performance Team:** NetSuite invests heavily in performance at every layer. This includes a dedicated performance team of developers and database engineers whose sole purpose is to proactively verify application performance benchmarks and tune the application for maximum performance.
- **High-Performance Databases:** The NetSuite application runs on high-performance database server hardware with multiple cores and maximum RAM configuration. NetSuite production database servers run exclusively on solid state storage ensuring the fastest possible database I/O performance available in the industry.
- **Performance Monitoring Tool:** The NetSuite Application Performance Management (APM) tool provides a comprehensive performance dashboard that allows users to easily and quickly drill down and investigate the root cause of a site’s performance issues. By capturing critical performance data and quickly identifying, analysing and fixing the problem areas, customers can optimise performance, improve user experience and maintain critical transactions.

Availability

- **Service Level Commitment (SLC):** An SLC guarantees a 99.7% uptime (outside scheduled service windows) for the NetSuite production application for all customers. A credit is available if NetSuite does not deliver its application services with 99.7% uptime. A publicly available [status page](#) is provided to display system status at all times that includes quantitative current and historic uptime metrics as well as up-to-the-minute announcements during disruptions.
- **World-Class Hosting Operations Team:** A global team of dedicated operations personnel proactively monitors the health of the entire system with industry leading alert and trend-based tools designed to identify and resolve events before they impact the live site. This team provides 24x7 coverage to respond to any incident with automated recovery procedures.
- **Dedicated Event Response Team:** A global cloud event response team is dedicated to expediting responses and resolutions while establishing communications and regular updates during service-impacting events. This team is active 24x7 from multiple worldwide locations.
- **Network Design:** The network was built to meet or exceed commercial telecommunications standards worldwide for availability, integrity and confidentiality. The network design ensures reliable connectivity and maximum uptime with no single-point data transmission bottlenecks to or from the data centre. Finally, NetSuite uses a content delivery network (CDN) to enhance network reliability and help protect against denial-of-service attacks.

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