NetSuite Certified
Web Services Developer Exam

Study Guide (April 2023)
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About the Web Services Developer Exam
Passing this Web Services Developer exam certifies that you have the knowledge and skills necessary to be a NetSuite Certified Web Services Developer. See Description of a Qualified Candidate.

To achieve the complete NetSuite Certified SuiteCloud Developer certification, you must also complete the following certification exams:

- Application Developer
- SuiteFoundation

Exam Fee
- $250
- $150 (retake)

Taking the Exam
- This will be a live proctored examination.
- No written or online reference materials may be used during the exam.
- 90 minutes are allotted to complete 45 multiple-choice questions.

Description of a Qualified Candidate
The candidate:

- Ideally has 1-2 years of experience focusing on SuiteTalk Web Services technology. Has 2-3 years of relevant software development experience.
- Has the knowledge and skills necessary to design, develop and test secure, scalable, reliable, performant solutions to interact with NetSuite.
- Can explain the implications and benefits of NetSuite web services options.
- Knowledge of REST, SOAP, SQL, XML and JSON technologies will also be helpful.

Maintaining Your Certification
There will be 2 ongoing requirements for maintaining your NetSuite Certified Web Services Developer title:

Annual Release Maintenance
NetSuite publishes a once-per-year unproctored New Release Quiz to validate awareness of new NetSuite features released in the previous year. Information on availability of the New Release Quiz will be communicated in the following ways:

- Posted to the Announcements on the Certification webpage.
- Posted to the closed LinkedIn NetSuite Certified group.
- Emailed to the email of record in the Certification Status Search Tool available on the Certification webpage.
Refresh Web Services Developer Exam
NetSuite will rewrite the Web Services Developer exam as needed. Oracle NetSuite Certified Web Services Developer certificate holders will be required to retake and pass this exam to maintain their certification.

Recommended Training and Background
These courses and skills are recommended for candidates planning to take this exam. The courses are available via the Certification Preparation–Web Services Developer Exam learning path in NetSuite MyLearn.

Recommended Training Courses:
- SuiteAnalytics: Reports and Searches
- SuiteAnalytics: Advanced Searches
- SuiteAnalytics Workbook: Datasets and Visualizations
- SuiteTalk: Integrate with SOAP Web Services CD.2
- SuiteTalk: Integrate with REST Web Services
- Data Integration Series

Recommended Skill Level
- 1-2 years of experience working with SuiteTalk SOAP and REST Web Services technologies
- 2-3 years of relevant software development experience
- Knowledge of REST, SOAP, SQL, XML and JSON technologies will also be helpful.

Subject Areas Covered by the Exam
These are the broad subject areas covered on the exam:
- SuiteTalk SOAP Web Services
- SuiteTalk REST Web Services
- Integration
Review the following table. Each subject area is broken out into more detail further down in this document.

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<td>Use different approaches to interact with records and sublists, including customizations, using SOAP Web Services.</td>
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<td><strong>Integration</strong></td>
<td>Demonstrate how to manage multiple threads across SuiteTalk SOAP Web Services, SuiteTalk REST Web Services, and RESTlets.</td>
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Study Suggestions

SuiteTalk SOAP Web Services

**Explain the SOAP Web Services endpoint policy and identify the process for upgrading endpoints.**

**How to Study:** Research these topics: Deprecation and general availability policy around supported endpoints; updating endpoints; impact of new NetSuite functionality and endpoints.

**Courses addressing this objective:** SuiteTalk: Integrate with SOAP Web Services CD.2

**Use different approaches to interact with records and sublists, including customizations, using SOAP Web Services.**

**How to Study:** Research these topics: Standard and custom records; custom fields; keyed & non-keyed sublists; working with subrecords; getCustomizationId operation; using the SOAP Schema Browser.

**Courses addressing this objective:** SuiteTalk: Integrate with SOAP Web Services CD.2

**Identify the impact of customizations on SOAP Web Services integrations.**

**How to Study:** Research these topics: Impact of form customization like hiding fields; custom record configuration; custom field configuration including sourcing & filtering; company-wide and request-level preferences impacting customizations.

**Courses addressing this objective:** SuiteTalk: Integrate with SOAP Web Services CD.2

**Explain the implications of using basic searches, joined searches, and advanced searches with SOAP Web Services.**

**How to Study:** Research these topics: Help Center topic “Search Issues and Best Practices for SOAP Web Services and SuiteScript;” contrasting basic, joined, and advanced searches including performance considerations; paging in searches; sublists in searches; company-wide and request-level preferences impacting searches.

**Courses addressing this objective:** SuiteTalk: Integrate with SOAP Web Services CD.2

**Determine how to debug and troubleshoot in SOAP Web Services.**

**How to Study:** Research these topics: Errors around concurrency and privileges; warnings vs. errors vs. faults; error handling in SOAP response; Login Audit Trail; logs for synchronous and asynchronous operations; SOAP Web Services saved searches.

**Courses addressing this objective:** SuiteTalk: Integrate with SOAP Web Services CD.2

**Demonstrate proper security techniques and how to configure authentication in SOAP Web Services.**

**How to Study:** Research these topics: Roles in SOAP Web Services including dedicated roles and minimizing privileges; Web Services Only Role; setup and usage of token-based authentication; tokens and usage across environments; integration record configuration.
Courses addressing this objective: SuiteTalk: Integrate with SOAP Web Services

Explain strategies for using SOAP Web Services to enhance performance.
How to Study: Research these topics: Asynchronous operations; list vs. individual record operations; upsert operations vs. add & update; impact of company-wide and request-level preferences; usage of external IDs.

Courses addressing this objective: SuiteTalk: Integrate with SOAP Web Services CD.2

SuiteTalk REST Web Services

Demonstrate proper security techniques and how to configure authentication in REST Web Services.
How to Study: Research these topics: Roles in REST Web Services including dedicated roles and minimizing privileges; Web Services Only Role; OAuth 2.0 (authorization code grant and client credentials); OAuth 2.0 across different environments; integration record configuration; permissions related to executing SuiteQL.

Courses addressing this objective: SuiteTalk: Integrate with REST Web Services

Explain strategies for using REST Web Services to enhance performance.
How to Study: Research these topics: Parameters like expandSubResources and fields; record service vs. SuiteQL in query service; when to use metadata catalog.

Courses addressing this objective: SuiteTalk: Integrate with REST Web Services

Use record and query services to interact with records and sublists, including customizations, in REST Web Services.
How to Study: Research these topics: Standard and custom records; record transformations; executing record actions; all CRUD operations; record filtering; HATEOAS links; applicable standard and custom HTTP headers in request and response; standard and custom fields; sublists; subrecords; parameters like replace and replaceSelectedFields; accessing data via SuiteQL and SuiteAnalytics Datasets, including impact of SuiteAnalytics Connect; REST API Browser.

Courses addressing this objective: SuiteTalk: Integrate with REST Web Services

Determine how to debug and troubleshoot in REST Web Services.
How to Study: Research these topics: Errors around concurrency and privileges; HTTP statuses common to REST Web Services; errorDetails in response; REST Web Services execution log; Login Audit Trail.

Courses addressing this objective: SuiteTalk: Integrate with REST Web Services
Integration

Demonstrate how to manage multiple threads across SuiteTalk SOAP Web Services, SuiteTalk REST Web Services, and RESTlets.

How to Study: Research these topics: Managing concurrency; configuring concurrency on the Integration record; account level concurrency vs. integration concurrency; distributing concurrency across applications; APM SuiteApp to monitor concurrency.