# ServiceNow A2A Testing ServiceNow\_A2A\_Testing\_Guide

## ServiceNow A2A Testing Tools

## September 2025

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# 1 ServiceNow Agent-to-Agent (A2A) Testing Guide

Version: 1.0

Date: September 2025

Audience: ServiceNow Customers, Developers, and System Administrators

# 1.1 Table of Contents

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- 2. Prerequisites
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# 1.2 Overview

This guide provides comprehensive tools and instructions for testing ServiceNow Agent-to-Agent (A2A) implementations. It includes both Python-based clients and curl-based testing scripts that work with any ServiceNow instance and agent.

#### 1.2.1 What's Included

Generic Python A2A Client - Production-ready client for any ServiceNow instance

- Automated Testing Scripts Bash scripts for quick testing with curl
- Configuration Templates Easy setup for different environments
- Troubleshooting Guide Common issues and solutions

## 1.2.2 Key Features

- ☑ Universal Compatibility Works with any ServiceNow instance and agent
- Multiple Testing Methods Python SDK, direct HTTP, and curl
- Comprehensive Error Handling Detailed error messages and debugging
- Production Ready Suitable for development, testing, and production use

# 1.3 Prerequisites

## 1.3.1 System Requirements

- Operating System: macOS, Linux, or Windows with WSL
- **Python:** 3.8 or higher (for Python clients)
- curl: Available on most systems
- jq: Optional, for pretty JSON formatting

## 1.3.2 ServiceNow Requirements

- ServiceNow Instance with A2A capabilities
- Agent ID of the agent you want to test
- API Key with appropriate permissions for A2A operations

## 1.3.3 Python Dependencies

pip install httpx a2a-sdk

# 1.4 Quick Start

## 1.4.1 1. Download and Setup

# Create project directory
mkdir servicenow-a2a-testing

```
cd servicenow-a2a-testing

# Copy all provided files to this directory

# (generic_a2a_client.py, test_servicenow_agent.sh, etc.)
```

## 1.4.2 2. Configure Your Environment

```
# Copy the template
cp .env.template .env

# Edit .env with your ServiceNow details
SERVICENOW_INSTANCE=your-instance.service-now.com
SERVICENOW_AGENT_ID=your-agent-id
SERVICENOW_TOKEN=your-api-key
```

#### 1.4.3 3. Run Your First Test

```
# Test with the automated script
./test_servicenow_agent.sh

# Or test with Python
python generic_a2a_client.py
```

# 1.5 Testing Tools

This guide provides three main testing approaches:

# 1.5.1 1. Automated Testing Script (test\_servicenow\_agent.sh)

- Best for: Quick validation and debugging
- Features: Full workflow testing, error handling, response parsing
- **Usage:** ./test\_servicenow\_agent.sh [options]

# 1.5.2 2. Python Generic Client (generic\_a2a\_client.py)

- Best for: Integration into applications
- Features: Production-ready, configurable, conversation context
- Usage: Import as module or run directly

## 1.5.3 3. Curl Command Generator (generate\_curl\_commands.sh)

- · Best for: Manual testing and debugging
- Features: Generates ready-to-use curl commands
- **Usage:** ./generate\_curl\_commands.sh [options]

# 1.6 Configuration Guide

### 1.6.1 Environment Variables

Create a . env file in your project directory:

```
# ServiceNow Instance (without https://)
SERVICENOW_INSTANCE=your-company.service-now.com

# Agent ID (found in ServiceNow agent configuration)
SERVICENOW_AGENT_ID=your-agent-id-here

# API Key (generated in ServiceNow)
SERVICENOW_TOKEN=your-api-key-here
```

## 1.6.2 Finding Your Agent ID

- 1. Log into your ServiceNow instance
- 2. Navigate to Agent Intelligence > Agents
- 3. Select your agent
- 4. Copy the ID from the URL or agent details page

## 1.6.3 Generating an API Key

- 1. In ServiceNow, go to System Web Services > REST API Explorer
- 2. Or use the ServiceNow Developer Portal
- 3. Generate a new API key
- 4. Ensure it has permissions for A2A operations

# 1.7 Testing Methods

## 1.7.1 Method 1: Automated Testing Script

The automated script provides the most comprehensive testing:

```
# Basic test (uses .env configuration)
./test_servicenow_agent.sh

# Test with custom message
./test_servicenow_agent.sh -m "What services do you provide?"

# Verbose output for debugging
./test_servicenow_agent.sh -v

# Test only agent discovery
./test_servicenow_agent.sh --discovery-only

# Custom configuration
./test_servicenow_agent.sh -i company.service-now.com -a agent-id -t api-key
```

#### Sample Output:

## 1.7.2 Method 2: Python Client

Use the Python client for programmatic access:

```
import asyncio
from generic_a2a_client import ServiceNowA2AClient
```

```
async def test_agent():
    # Option 1: Use environment variables
    client = ServiceNowA2AClient()

# Option 2: Direct configuration
# client = ServiceNowA2AClient(
# instance="your-instance.service-now.com",
# agent_id="your-agent-id",
# api_key="your-api-key"
# )

# Send a simple message
response = await client.connect_and_send("What can you help me with?")
print(response)

# Run the test
asyncio.run(test_agent())
```

## **Advanced Usage with Context:**

#### 1.7.3 Method 3: Manual Curl Commands

Generate and use curl commands for manual testing:

```
# Generate commands
./generate_curl_commands.sh -m "Your test message"

# Use generated files
./discovery_command.sh | jq
```

```
./send_message_command.sh | jq
# Or copy-paste the one-liner commands provided
```

# 1.8 Python Client Implementation

# 1.8.1 Complete Generic Client Code

```
#!/usr/bin/env python3
Generic ServiceNow A2A Client
A configurable client for connecting to any ServiceNow Agent-to-Agent (A2A) endpoint.
import asyncio
from uuid import uuid4
import httpx
import os
from pathlib import Path
from typing import Optional, Dict, Any
from dataclasses import dataclass
# Load environment variables from .env file if it exists
env_file = Path(__file__).parent / '.env'
if env_file.exists():
   with open(env_file) as f:
       for line in f:
            if line.strip() and not line.startswith('#'):
                key, value = line.strip().split('=', 1)
                os.environ[key] = value
from a2a.client import A2AClient
from a2a.types import (
   AgentCard,
   SendMessageRequest,
   MessageSendParams,
)
@dataclass
class ServiceNowConfig:
    """Configuration for ServiceNow A2A client"""
    instance: str # e.g., "your-instance.service-now.com"
    agent_id: str # ServiceNow agent ID
    api_key: str
                  # ServiceNow API key
```

```
@property
    def base_url(self) -> str:
        """Base URL for A2A API"""
       return f"https://{self.instance}/api/sn_aia/a2a/id"
   @property
    def discovery_url(self) -> str:
        """Agent discovery URL"""
       return f"{self.base_url}/{self.agent_id}/well_known/agent_json"
   @classmethod
    def from_env(cls) -> 'ServiceNowConfig':
        """Create configuration from environment variables"""
       instance = os.getenv("SERVICENOW_INSTANCE")
       agent_id = os.getenv("SERVICENOW_AGENT_ID")
       api_key = os.getenv("SERVICENOW_TOKEN")
       if not instance:
            raise ValueError("SERVICENOW_INSTANCE environment variable is required")
       if not agent_id:
            raise ValueError("SERVICENOW_AGENT_ID environment variable is required")
       if not api kev:
            raise ValueError("SERVICENOW_TOKEN environment variable is required")
       return cls(instance=instance, agent_id=agent_id, api_key=api_key)
class ServiceNowA2AClient:
    """Generic ServiceNow A2A Client"""
    def __init__(self, instance: str = None, agent_id: str = None, api_key: str = None):
        """Initialize the ServiceNow A2A client"""
       if instance and agent_id and api_key:
            self.config = ServiceNowConfig(instance=instance, agent_id=agent_id,
        api_key=api_key)
       else:
            self.config = ServiceNowConfig.from_env()
       self.agent_card: Optional[AgentCard] = None
       self.a2a_client: Optional[A2AClient] = None
    async def fetch_agent_card(self, httpx_client: httpx.AsyncClient) -> AgentCard:
        """Fetch agent card from ServiceNow discovery endpoint"""
            print(f" Discovering agent at: {self.config.instance}")
            headers = {
                'content-type': 'application/json',
                'x-sn-apikey': self.config.api_key,
```

```
'user-agent': 'ServiceNow-A2A-Client/1.0'
       }
       response = await httpx_client.get(self.config.discovery_url, headers=headers)
        response.raise_for_status()
       agent_card_data = response.json()
       agent_card = AgentCard(**agent_card_data)
       print("▼ Agent discovered successfully!")
       print(f" Name: {agent_card.name}")
       self.agent_card = agent_card
       return agent_card
    except Exception as e:
       print(f"X Error fetching agent card: {e}")
       raise RuntimeError(f"Failed to fetch agent card: {e}")
def initialize_client(self, httpx_client: httpx.AsyncClient) -> A2AClient:
    """Initialize A2A client with the discovered agent card"""
   if not self.agent_card:
        raise RuntimeError("Agent card not fetched. Call fetch_agent_card() first.")
   client = A2AClient(httpx_client=httpx_client, agent_card=self.agent_card)
   print(" A2A Client initialized")
   self.a2a_client = client
   return client
async def send_message(self, message_text: str, context_id: str = None, task_id: str =
    None) -> Dict[str, Any]:
    """Send a message to the ServiceNow agent"""
   if not self.a2a_client:
       raise RuntimeError("A2A client not initialized. Call initialize_client()
    first.")
   print(f" Sending message: {message_text}")
   request_id = uuid4().hex
   message\_body = {
        'message': {
            'role': 'user',
            'parts': [{'kind': 'text', 'text': message_text}],
            'messageId': uuid4().hex,
            'kind': 'message' # SDK expects 'message'
       },
        'context': {'contextId': context_id, 'taskId': task_id},
        'metadata': {},
        'pushNotificationUrl':
    f"http://localhost:8080/a2a/callback/{self.config.agent_id}/{request_id}",
```

```
'id': request_id
       }
        request = SendMessageRequest(id=str(uuid4()),
        params=MessageSendParams(**message_body))
       try:
            response = await self.a2a_client.send_message(request)
            print("☑ Message sent successfully!")
            return response.model_dump(mode='json', exclude_none=True)
        except Exception as e:
            print(f"X Error sending message: {e}")
            raise
    async def connect_and_send(self, message_text: str, context_id: str = None, task_id: str
        = None) -> Dict[str, Any]:
        """Convenience method to connect to agent and send a message in one call"""
        timeout = httpx.Timeout(30.0, connect=10.0)
       async with httpx.AsyncClient(timeout=timeout) as httpx_client:
            await self.fetch_agent_card(httpx_client)
            self.initialize_client(httpx_client)
            return await self.send_message(message_text, context_id, task_id)
async def main():
    """Example usage of the generic ServiceNow A2A client"""
    print("=== Generic ServiceNow A2A Client ===")
    try:
        client = ServiceNowA2AClient()
        print(f" Instance: {client.config.instance}")
        print(f" Agent ID: {client.config.agent_id}")
        # Send a message to the agent
       message = "What can you help me with?"
        response = await client.connect_and_send(message)
       print("\n✓ A2A Client completed successfully!")
    except ValueError as e:
        print(f"X Configuration Error: {e}")
        print("\nRequired environment variables:")
        print(" SERVICENOW_INSTANCE=your-instance.service-now.com")
        print(" SERVICENOW_AGENT_ID=your-agent-id")
        print(" SERVICENOW_TOKEN=your-api-key")
    except Exception as e:
        print(f"X A2A Client failed: {e}")
```

```
if __name__ == "__main__":
    asyncio.run(main())
```

# 1.9 Curl Testing Scripts

## 1.9.1 Automated Testing Script

```
#!/bin/bash
# ServiceNow A2A Agent Test Script
# This script generates and executes curl commands to test any ServiceNow agent
set -e
# Color codes for output
RED='\033[0;31m'
GREEN='\033[0;32m'
YELLOW='\033[1;33m'
BLUE='\033[0;34m'
NC='\033[0m'
print_status() { echo -e "${BLUE}[INFO]${NC} $1"; }
print_success() { echo -e "${GREEN}[SUCCESS]${NC} $1"; }
print_error() { echo -e "${RED}[ERROR]${NC} $1"; }
# Load configuration from .env file if it exists
if [ -f .env ]; then
   print_status "Loading configuration from .env file..."
    export $(grep -v '^#' .env | xargs)
fi
# Configuration variables
SERVICENOW_INSTANCE=${SERVICENOW_INSTANCE:-""}
SERVICENOW_AGENT_ID=${SERVICENOW_AGENT_ID:-""}
SERVICENOW_TOKEN=${SERVICENOW_TOKEN:-""}
# Parse command line arguments
CUSTOM_MESSAGE=""
DISCOVERY ONLY=false
VERBOSE=false
while [[ $# -gt 0 ]]; do
    case $1 in
        -il--instance) SERVICENOW_INSTANCE="$2"; shift 2 ;;
       -a|--agent-id) SERVICENOW_AGENT_ID="$2"; shift 2 ;;
       -tl--token) SERVICENOW_TOKEN="$2"; shift 2 ;;
```

```
-ml--message) CUSTOM_MESSAGE="$2"; shift 2 ;;
       -dl--discovery-only) DISCOVERY_ONLY=true; shift ;;
       -vI--verbose) VERBOSE=true; shift ;;
       -hI--help)
           echo "Usage: $0 [OPTIONS]"
           echo "Test a ServiceNow A2A agent using curl commands"
           echo ""
           echo "Options:"
           echo " -i, --instance INSTANCE
                                             ServiceNow instance"
           echo " -a, --agent-id AGENT_ID
                                             Agent ID"
           echo " -t, --token TOKEN
                                             API token"
           echo " -m, --message MESSAGE
                                             Custom message"
           echo " -d, --discovery-only
                                             Only test discovery"
           echo " -v, --verbose
                                             Verbose output"
           echo " -h, --help
                                             Show this help"
           exit 0;;
       *) print_error "Unknown option: $1"; exit 1 ;;
   esac
done
# Validate required configuration
if [ -z "$SERVICENOW_INSTANCE" ] || [ -z "$SERVICENOW_AGENT_ID" ] || [ -z
        "$SERVICENOW_TOKEN" ]; then
   print_error "Missing required configuration"
    echo "Required: SERVICENOW_INSTANCE, SERVICENOW_AGENT_ID, SERVICENOW_TOKEN"
fi
# Set default message
if [ -z "$CUSTOM_MESSAGE" ]; then
   CUSTOM_MESSAGE="Hello! This is a test message. What can you help me with?"
fi
# Build URLs
BASE_URL="https://${SERVICENOW_INSTANCE}/api/sn_aia/a2a/id"
DISCOVERY_URL="${BASE_URL}/${SERVICENOW_AGENT_ID}/well_known/agent_json"
INVOCATION_URL="https://${SERVICENOW_INSTANCE}/api/sn_aia/a2a/v1/agent/id/${SERVICENOW_AGENT_ID}"
print_status "ServiceNow A2A Agent Test"
echo "========"
echo "Instance: $SERVICENOW_INSTANCE"
echo "Agent ID: $SERVICENOW_AGENT_ID"
echo "Message: $CUSTOM_MESSAGE"
echo "========""
# Test 1: Agent Discovery
print_status "Step 1: Testing agent discovery..."
DISCOVERY_RESPONSE=$(curl -s -w "\n%{http_code}" \
    -H "Content-Type: application/json" \
```

```
-H "x-sn-apikey: $SERVICENOW_TOKEN" \
    -H "User-Agent: ServiceNow-A2A-Test/1.0" \
    "$DISCOVERY_URL")
HTTP_STATUS=$(echo "$DISCOVERY_RESPONSE" | tail -n 1)
DISCOVERY_BODY=$(echo "$DISCOVERY_RESPONSE" | sed '$d')
if [ "$HTTP_STATUS" = "200" ]; then
    print_success "Agent discovery successful!"
   AGENT_NAME=$(echo "$DISCOVERY_BODY" | python3 -c "import sys, json;
        data=json.load(sys.stdin); print(data.get('name', 'Unknown'))" 2>/dev/null | | echo
        "Unknown")
    echo " Agent Name: $AGENT_NAME"
    if [ "$VERBOSE" = true ]; then
        echo ""
        print_status "Full agent card response:"
        echo "$DISCOVERY_BODY" | python3 -m json.tool 2>/dev/null || echo "$DISCOVERY_BODY"
    fi
else
    print_error "Agent discovery failed! HTTP Status: $HTTP_STATUS"
    echo "Response: $DISCOVERY_BODY"
    exit 1
fi
# Exit if discovery-only mode
if [ "$DISCOVERY_ONLY" = true ]; then
    print_success "Discovery-only mode completed successfully!"
    exit 0
fi
# Test 2: Send Message
print_status "Step 2: Sending test message to agent..."
REQUEST_ID=$(uuidgen | tr '[:upper:]' '[:lower:]' | tr -d '-')
MESSAGE_ID=$(uuidgen | tr '[:upper:]' '[:lower:]' | tr -d '-')
JSON_PAYLOAD=$(cat <<EOF
{
  "jsonrpc": "2.0",
  "method": "message/send",
  "params": {
    "message": {
      "role": "user",
      "parts": [{"kind": "text", "text": "$CUSTOM_MESSAGE"}],
      "messageId": "$MESSAGE_ID",
      "kind": "user"
   },
    "context": {"contextId": null, "taskId": null},
    "metadata": {},
```

```
"pushNotificationUrl": "http://localhost:8080/a2a/callback/test/$REQUEST_ID",
    "id": "$REQUEST_ID"
 },
 "id": "$REQUEST_ID"
}
EOF
)
MESSAGE_RESPONSE=$(curl -s -w "\n%{http_code}" \
    -X POST \
    -H "Content-Type: application/json" \
   -H "x-sn-apikey: $SERVICENOW_TOKEN" \
   -H "User-Agent: ServiceNow-A2A-Test/1.0" \
    -d "$JSON_PAYLOAD" \
    "$INVOCATION URL")
HTTP_STATUS=$(echo "$MESSAGE_RESPONSE" | tail -n 1)
MESSAGE_BODY=$(echo "$MESSAGE_RESPONSE" | sed '$d')
if [ "$HTTP_STATUS" = "200" ]; then
    print_success "Message sent successfully!"
    # Extract agent response
   AGENT_RESPONSES=$(echo "$MESSAGE_BODY" | python3 -c "
import sys, json
try:
    data = json.load(sys.stdin)
    result = data.get('result', {})
   status = result.get('status', {})
   message = status.get('message', {})
    parts = message.get('parts', [])
    for i, part in enumerate(parts):
       if part.get('kind') == 'text':
            print(f'Response {i+1}: {part.get(\"text\", \"\")}')
    print('Could not parse agent response')
" 2>/dev/null)
    if [ -n "$AGENT_RESPONSES" ]; then
       print_status "Agent Response:"
       echo "$AGENT_RESPONSES"
    fi
    if [ "$VERBOSE" = true ]; then
       echo ""
       print_status "Full response:"
        echo "$MESSAGE_BODY" | python3 -m json.tool 2>/dev/null || echo "$MESSAGE_BODY"
    fi
else
```

```
print_error "Message sending failed! HTTP Status: $HTTP_STATUS"
  echo "Response: $MESSAGE_BODY"
  exit 1
fi
print_success "All tests completed successfully!"
```

# 1.10 Troubleshooting

## 1.10.1 Common Issues and Solutions

## 1.10.1.1 1. Authentication Errors (401 Unauthorized)

Problem: API key authentication fails

**Solutions:** - Verify your API key is correct and not expired - Ensure the API key has A2A permissions - Check that you're using the correct ServiceNow instance URL - Try regenerating the API key in ServiceNow

## 1.10.1.2 2. Agent Not Found (404 Not Found)

Problem: Agent discovery fails

**Solutions:** - Verify the agent ID is correct - Ensure the agent is published and active - Check the discovery URL format: {instance}/api/sn\_aia/a2a/id/{agent\_id}/well\_known/agent\_json

## 1.10.1.3 3. Connection Timeouts

Problem: Requests timeout or fail to connect

**Solutions:** - Check network connectivity to your ServiceNow instance - Verify the instance URL is accessible - Try increasing timeout values in the scripts - Check for firewall or proxy issues

### 1.10.1.4 4. Invalid JSON Response

Problem: Malformed JSON in responses

**Solutions:** - Check if the agent is properly configured - Verify the agent supports the A2A protocol - Try the discovery endpoint first to validate connectivity

#### 1.10.1.5 5. Python Import Errors

**Problem:** Missing Python dependencies

Solutions:

```
# Install required packages
pip install httpx a2a-sdk

# Or create a virtual environment
python -m venv venv
source venv/bin/activate # On Windows: venv\Scripts\activate
pip install httpx a2a-sdk
```

## 1.10.2 Debugging Tips

1. Use Verbose Mode:

```
./test_servicenow_agent.sh -v
```

2. Test Discovery Only:

```
./test_servicenow_agent.sh --discovery-only
```

3. Check Raw Responses:

```
curl -v -H "x-sn-apikey: your-key" "your-discovery-url"
```

4. Validate JSON:

```
./discovery_command.sh | jq
```

# 1.11 Appendix

#### 1.11.1 A. ServiceNow A2A Protocol Details

## 1.11.1.1 Discovery URL Pattern

```
https://{instance}/api/sn_aia/a2a/id/{agent_id}/well_known/agent_json
```

#### 1.11.1.2 Invocation URL Pattern

```
https://{instance}/api/sn_aia/a2a/v1/agent/id/{agent_id}
```

#### 1.11.1.3 Required Headers

```
Content-Type: application/json
x-sn-apikey: your-api-key
User-Agent: your-client-name
```

#### 1.11.1.4 Message Format

```
{
  "jsonrpc": "2.0",
  "method": "message/send",
  "params": {
    "message": {
        "role": "user",
        "parts": [{"kind": "text", "text": "your message"}],
        "messageId": "unique-message-id",
        "kind": "user"
    },
    "context": {"contextId": null, "taskId": null},
    "metadata": {},
    "pushNotificationUrl": "your-callback-url",
    "id": "unique-request-id"
    },
    "id": "unique-request-id"
}
```

## 1.11.2 B. File Structure

```
servicenow-a2a-testing/
                                # Configuration file
├─ .env
— .env.template
                                # Configuration template
— generic_a2a_client.py
                               # Python A2A client
                               # Automated testing script
test_servicenow_agent.sh
── generate_curl_commands.sh
                               # Curl command generator
── examples.py
                                # Python usage examples
-- README.md
                                # Documentation
# Python dependencies
```

## 1.11.3 C. Environment Template

```
# ServiceNow A2A Client Configuration
# Copy this file to .env and fill in your values

# ServiceNow Instance (without https://)
SERVICENOW_INSTANCE=your-instance.service-now.com

# ServiceNow Agent ID
SERVICENOW_AGENT_ID=your-agent-id-here

# ServiceNow API Key
SERVICENOW_TOKEN=your-api-key-here
```

## 1.11.4 D. Requirements File

```
httpx>=0.24.0
a2a-sdk>=1.0.0
```

# 1.12 Support and Resources

## 1.12.1 ServiceNow Documentation

- ServiceNow A2A Documentation
- Agent Intelligence Platform

## 1.12.2 Community Resources

- ServiceNow Community Forums
- ServiceNow Developer Portal
- A2A SDK Documentation

## 1.12.3 Contact Information

For technical support with these testing tools, please refer to your ServiceNow administrator or the ServiceNow community resources.

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