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# SD-WAN Configuration Reports Playbook Documentation

## Overview

The **report.yml** playbook is an Ansible automation script designed to generate comprehensive configuration reports from Cisco SD-WAN environments. This playbook leverages the Sastre tool to extract detailed configuration information from the vManage controller and produces organized reports for analysis, documentation, and auditing purposes.

## Use Case

**Use Case: sastre report create - Generate comprehensive SD-WAN configuration reports**

This playbook addresses the need to: - Generate complete configuration reports from the SD-WAN environment - Document all SD-WAN components including templates, policies, and configurations - Create baseline reports for change management and compliance - Export configuration data for offline analysis and review - Provide automated reporting for regular audits and documentation updates

## Prerequisites

### Environment Variables

The following environment variables must be set before running the playbook:

| Variable | Description | Default Value |
| --- | --- | --- |
| **VMANAGE\_HOST** | vManage controller hostname/IP |  |
| **VMANAGE\_USERNAME** | Username for vManage authentication |  |
| **VMANAGE\_PASSWORD** | Password for vManage authentication |  |

## Playbook Structure

### Variables Configuration

vars:  
 vmanage\_host: "{{ lookup('env', 'VMANAGE\_HOST') | default('vmanage-amfament-prod.sdwan.cisco.com') }}"  
 vmanage\_username: "{{ lookup('env', 'VMANAGE\_USERNAME') | default('automation') }}"  
 vmanage\_password: "{{ lookup('env', 'VMANAGE\_PASSWORD') | default('') }}"  
 vmanage\_port: "443"  
 generated\_dir: "{{ playbook\_dir }}/../generated"

### Directory Structure

The playbook creates the following directory structure:

playbook\_directory/  
├── report.yml  
└── generated/  
 └── all\_items\_report.txt

## Task Analysis

#### Task 1: Environment Variable Validation

**Purpose:** Ensures all required credentials are available before proceeding

**What it does:** - Validates that **VMANAGE\_HOST**, **VMANAGE\_USERNAME**, and **VMANAGE\_PASSWORD** are set - Fails immediately if any required environment variable is missing - Prevents execution failures due to missing credentials - Provides clear error messages for troubleshooting

#### Task 2: Directory Creation

**Purpose:** Creates the output directory for generated reports

**What it does:** - Creates the **generated** directory relative to the playbook location - Sets appropriate permissions (755) for file access - Ensures the output location exists before report generation - Creates parent directories if they don’t exist

#### Task 3: vManage Connectivity Test

**Purpose:** Verifies the vManage controller is accessible before attempting report generation

**What it does:** - Makes a REST API call to **/dataservice/system/device/controllers** - Uses basic authentication with provided credentials - Sets **60-second timeout** to handle slow connections - Ignores SSL certificate validation for internal/self-signed certificates - Stores connectivity results for validation

#### Task 4: Connectivity Validation

**Purpose:** Stops execution if connectivity test fails

**What it does:** - Checks if the connectivity test returned **HTTP 200** status - Fails the playbook with descriptive error if vManage is unreachable - Prevents unnecessary Sastre operations when connectivity issues exist - Provides clear failure messaging for troubleshooting

#### Task 5: Generate Configuration Report

**Purpose:** Creates comprehensive SD-WAN configuration report

**Sastre command executed:**

sastre --address [host] --port [port] --user [username] --password [password] report create

**What it does:** - Connects to vManage using provided credentials - Generates a complete configuration report including: - Device templates and feature templates - Security policies and configurations - Routing policies and topologies - Site lists and VPN configurations - Creates timestamped report file (report\_YYYYMMDD\_HHMMSS.txt) - Handles SSL verification through environment variables

#### Task 6: Locate Generated Report

**Purpose:** Finds the Sastre-generated report file

**What it does:** - Searches the current working directory for \*\*report\_\*.txt **files - Filters for files created within the last** 5 minutes\*\* - Ensures the correct report file is identified - Handles multiple report files if present

#### Task 7: Identify Latest Report

**Purpose:** Selects the most recent report file

**What it does:** - Sorts found report files by modification time - Selects the most recently created report - Stores file path for subsequent operations - Handles cases where no report files are found

#### Task 8: Copy Report to Destination

**Purpose:** Moves report to standardized location

**Generated file:** **all\_items\_report.txt**

**What it does:** - Copies the Sastre-generated report to the **generated** directory - Renames file to **all\_items\_report.txt** for consistent naming - Uses remote\_src for local file operations - Preserves original report content

#### Task 9: Completion Notification

**Purpose:** Provides execution status and file location

**What it displays:** - Full path to the generated report file - Success confirmation message - Location for user reference

## Report Contents

The generated report typically includes: - **Device Templates:** Complete device template configurations - **Feature Templates:** All feature template details - **Policy Configurations:** Security, routing, and control policies - **Site Lists:** Site definitions and groupings - **VPN Configurations:** VPN settings and topologies - **System Settings:** vManage system configurations - **User Configurations:** User accounts and permissions

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