Splunk Cloud Setup with Universal Forwarder

This documentation outlines how to install and configure Splunk Cloud using the Universal Forwarder on Windows Server 2022 within Oracle VirtualBox.

Tools & Technologies Used

Oracle VirtualBox- Windows Server 2022

Splunk Cloud (Free Trial)

Splunk Universal Forwarder

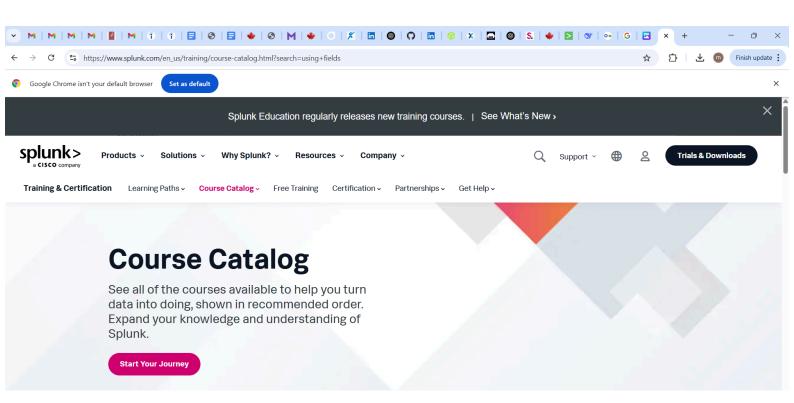
Canva (for documentation and presentation)

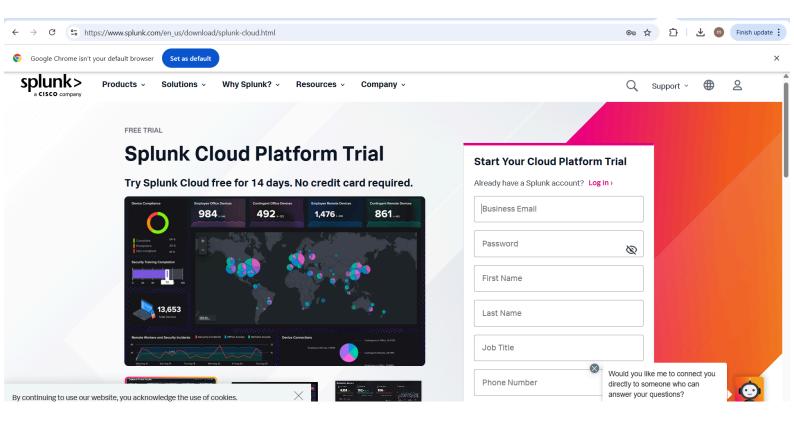
Windows Command Prompt (Admin)

Step-by-Step Setup

Step 1: Get a Splunk Cloud Instance

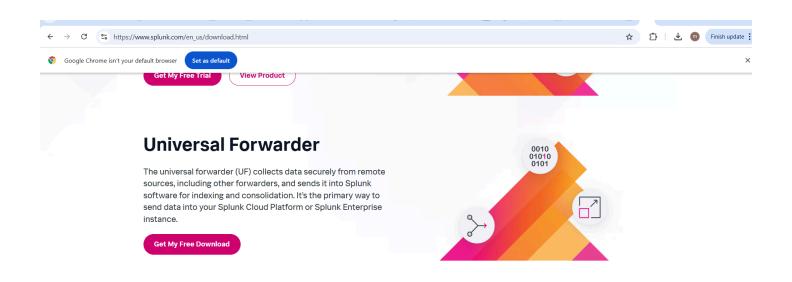
- 1. Go to: https://www.splunk.com/en_us/cloud.html
- 2. Click "Start Free Trial" and fill in the form
- 3. Check your email for login credentials and Splunk Cloud URL
- 4. Accept the terms and set a new password
- 5. Navigate to the "Search & Reporting" app once logged in





Step 2: Download Universal Forwarder Credential Package

- 1. From your Splunk Cloud dashboard, click the gear icon
- 2. Select Universal Forwarder
- 3. Click Download Universal Forwarder Credentials (.spl file)

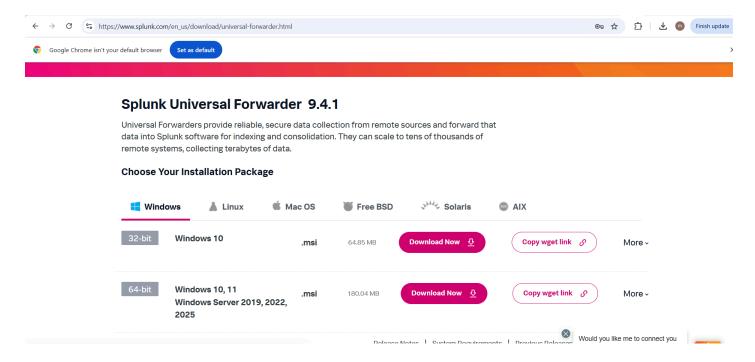


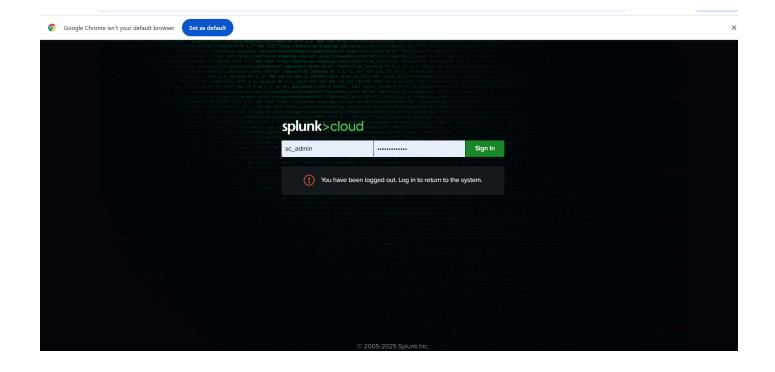
Additional products

 $\label{thm:explore} \textbf{Explore more trials and downloads to see which Splunk products are the right fit for you.}$

Step 3: Install the Splunk Universal Forwarder

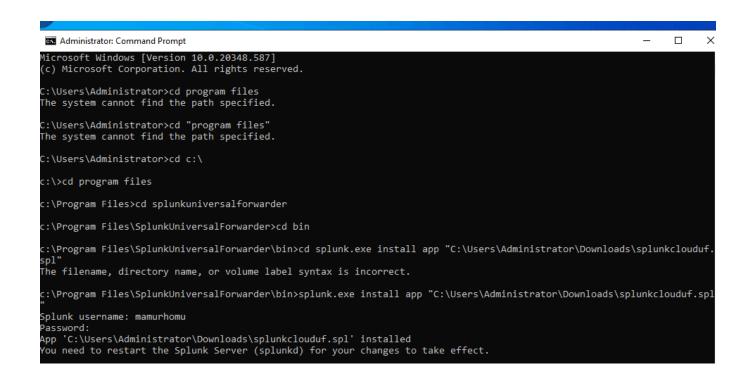
- 1. Visit: https://www.splunk.com/en_us/download/universal-forwarder.html
- 2. Download the Windows 64-bit .msi installer
- 3. Run the installer:
- Accept the license
- Select "Splunk Cloud Instance"
- Customize: run as Local System Account
- Manually enter your admin username & password
- Skip Deployment Server screen → Click Install



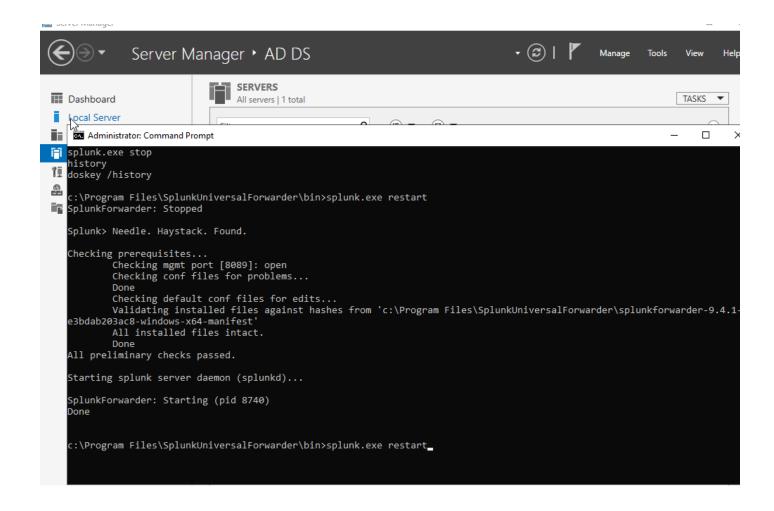


Step 4: Install the UF Credential Package in CMD

- 1. Open Command Prompt as Administrator
- 2. Navigate to Splunk Universal Forwarder bin directory: cd "C:\Program Files\SplunkUniversalForwarder\bin"
- 3. Run the install command: splunk.exe install app "C:\Users\Administrator\Downloads\splunkclouduf.spl"

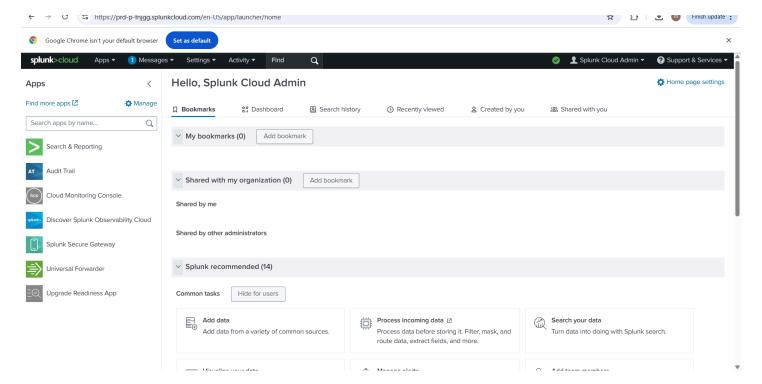


Step 5: Restart the Splunk Forwarder

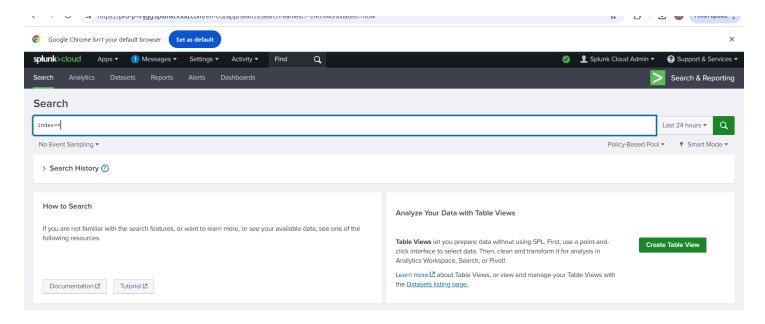


Step 6: Verify Connection

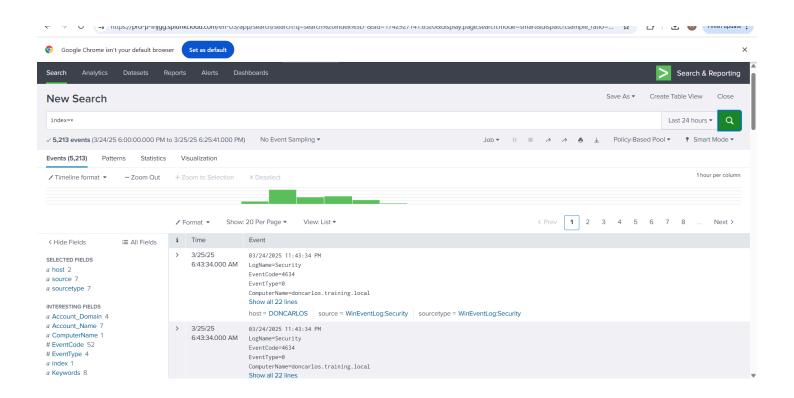
- 1. Return to Splunk Cloud
- 2. Click Search & Reporting

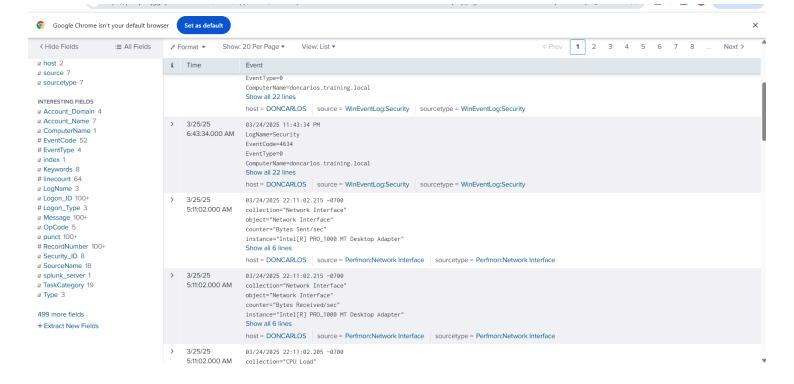


3. Search for: index=*4.



Confirm log data is being received



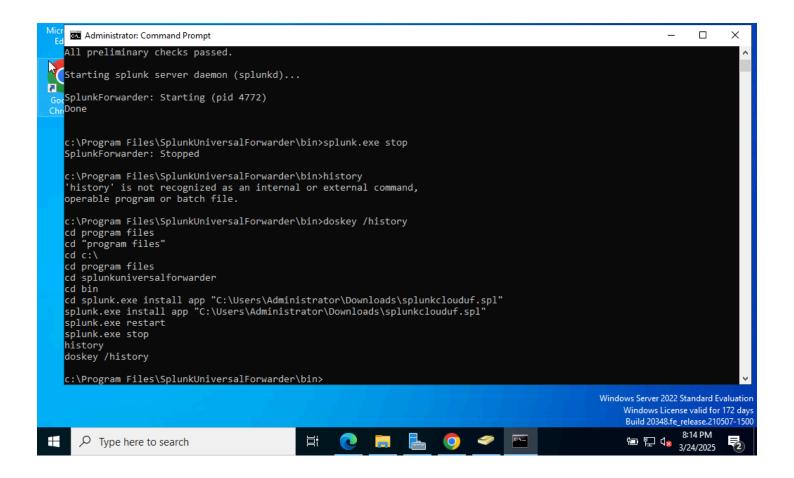


Skills Demonstrated

- Windows Server Command Line- Splunk Cloud and Forwarder Configuration- Real-time Troubleshooting-Credential Handling and Verification- Documentation for Deployment and Training

Screenshots

Screenshots of each step can be added here or uploaded in GitHub repo.



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