



IPInfo App for Splunk

App Version: 5.1.1

Author: Neel Shah - Greenace Consultants

Description: Installation and Configuration Document for IPInfo App for Splunk

Latest Update Date: 15th Dec, 2020





Version Summary

Version	Change History	
1.0.0	Initial Version	
1.0.2	Added Screenshots and Web Installation Steps	
1.0.3	Replace old dashboard screen with new	
1.0.7	Bug Fixes, Color Issues	
3.0.0	Support to Splunk 8.x and Python 3.x	
	Internal Updates	
3.4.9	New scripted lookup New ipinfobatch command	
3.4.11	Bug Fixes and Compliance to Splunk App Inspect	
3.5.3	Added Support for New Lookup Commands privacyinfolookup - domaininfolookup - rangesinfolookup	
3.5.4	Bugfixes : Issues with ipinfolookup command	
4.0.0	IPInfo not supported on Splunk 6.x and 7.x	
4.0.9	Support for Proxy Settings	
5.0.2	Support for Splunk Search Head Cluster	
5.1.1	Merging ipinfolookup capability with original ipinfo command privacyinfolookup to now be privacyinfo domaininfolookup to now be domaininfo rangesinfolookup to now be rangesinfo	



Supported OS

os		
Windows 10		
Windows Server 2012		
Windows Server 2016		
RHEL 7		
RHEL 8		
UBUNTU 14		
UBUNTU 16		
UBUNTU 18		
UBUNTU 20		

Supported Splunk

Splunk	
Splunk 8.X	









IPInfo App for Splunk provides an Integration between IPInfo API and Splunk. This app adds *ipinfo* command to Splunk, which uses IPINFO API engine to lookup information for a given IP





Install the App

NOTE: There are multiple ways of deploying apps to Splunk environment, in this document we'll be referring installation via CLI (Command Line Interface)

CASE1: SINGLE STAND ALONE MACHINE (CLI)

Single standalone Splunk Enterprise Installation on Windows/*NIX



- 1. Unzip ipinfo_app.spl
- 2. Copy the unzipped directory ipinfo_app to \$SPLUNK_HOME/etc/apps/
- 3. Open CLI and restart Splunk using ./splunk restart







Single Indexer Single Search head and Single forwarder (Heavy or Universal) and Deployment server



Heavy Forwarder

- 1. Unzip ipinfo_app.spl
- Copy the unzipped directory ipinfo_app to deployment server in the following location \$SPLUNK_HOME/etc/deployment-apps/
- 3. Add following to serverclass.conf

[serverClass:<SEARCHHEAD_SERVERCLASS>:app:< ipinfo_app >] stateOnClient=enabled restartSplunkd=true

4. Open CLI deploy the apps using following command ./splunk reload deploy-server





CASE3: DISTRIBUTED ARCHITECTURE

Multiple non-clustered Indexers, Multiple non-clustered SearchHeads, Forwarder(Heavy or Universal) and













Indexer (Search peer) (Search peer) (Search peer)

Indexer

Indexer

Search Head Search Head Search Head (0) ipinfo.io

Deployment server



Deployment Server



Heavy Forwarder

- 1. Unzip ipinfo_app.spl
- 2. **Copy** the unzipped directory **ipinfo_app** to deployment server in the following location \$SPLUNK_HOME/etc/deployment-apps/
- 3. Add following to serverclass.conf

[serverClass:<SEARCHHEAD_SERVERCLASS>:app:<ipinfo_app>] stateOnClient=enabled restartSplunkd=true

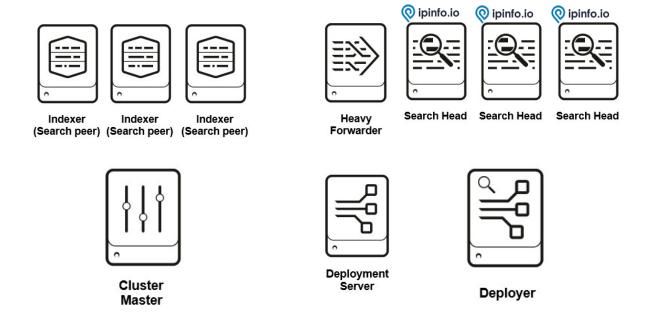
4. Open CLI deploy the apps using following command ./splunk reload deploy-server





CASE4: DISTRIBUTED ARCHITECTURE

Single Site clustered Indexer, Clustered Search heads and Forwarder (Heavy or Universal).



- 1. Unzip ipinfo_app.spl
- 2. Copy ipinfo_app to Deployer server in the following location \$SPLUNK_HOME/etc/shcluster/apps/
- 3. Open CLI on Deployer and deploy the app on Search Head Cluster using following command ./splunk apply shcluster-bundle -target <URI>:<management_port> -auth <username>:<password>



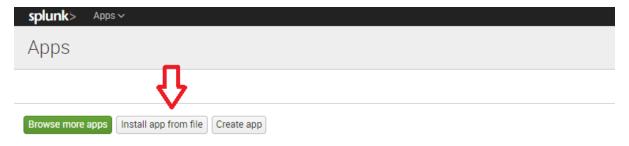


CASE5: STANDALONE INSTALLATION (WEB)

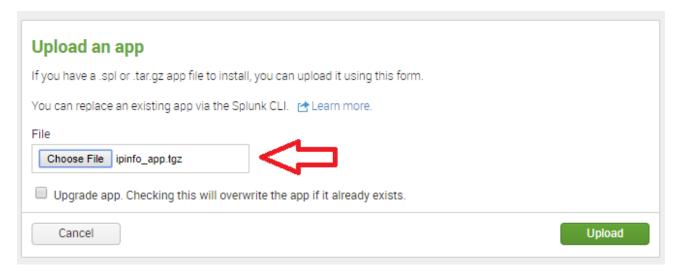
1. On the Splunk Home Page, Click on "Manage Apps"



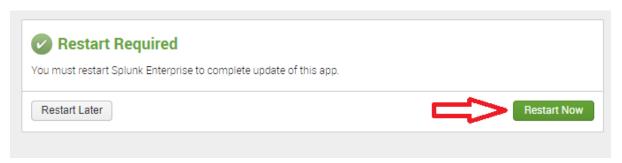
2. On the Manage Apps page, Click on "Install app from file"



3. Select path for IPINFO Splunk app and Click "Upload"



4. Splunk will prompt you to restart the machine, please restart







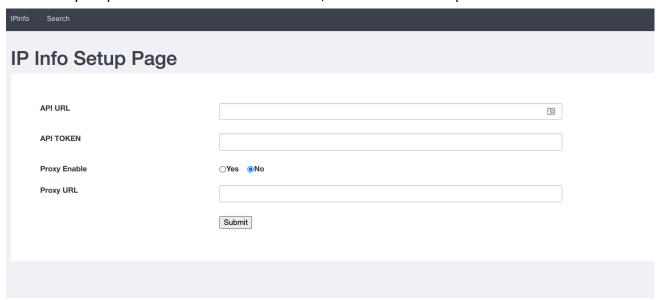
Configuration

- 1. After Installation and restart, login to the Splunk web and go to 'Manage Apps'
- 2. It will list out all the installed application and their configuration option.
- 3. Look for 'IPINFO and click on the 'Set-Up' link to configure the add on.
- 4.



API Configuration

Just Enter your personalized authorization token, there is also link to purchase the token



CLI Configuration

Just update ip info setup.conf in \$SPLUNK HOME/etc/apps/ip info/local/

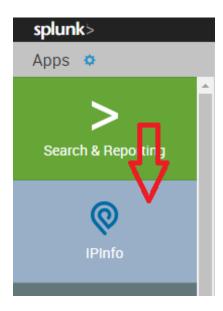




[api_configuration]
api_url = https://ipinfo.io/
token = <your token here>

and restart Splunk

ACCESSING THE APP



TEST COMMAND

-----IPInfo -----

| makeresults 1 | eval ip_add="1.186.41.179" | ipinfo ip_add | table ip, city, region, country, loc, postal, hostname

Availability of Fields

- Basic Subscription ip, city, region, country, loc, org, postal, hostname
- **Standard Subscription** ip, city, region, country, loc, postal, hostname asn_asn, asn_name, asn_domain, asn_route, asn_type
- **Pro Subscription** ip, city, region, country, loc, postal, hostname asn_asn, asn_name, asn_domain, asn_route, asn_type, company_name, company_domain, company_type, carrier_name, carrier_mcc, carrier_mnc

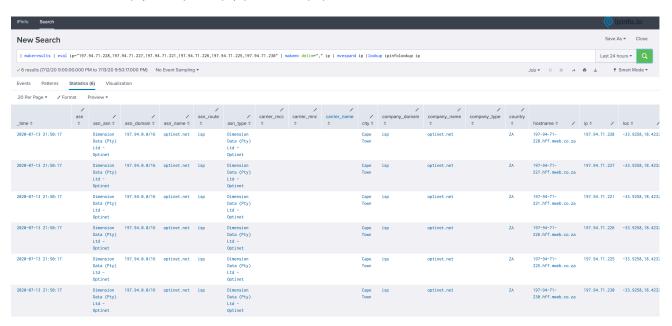




----- IPInfo Lookup ------

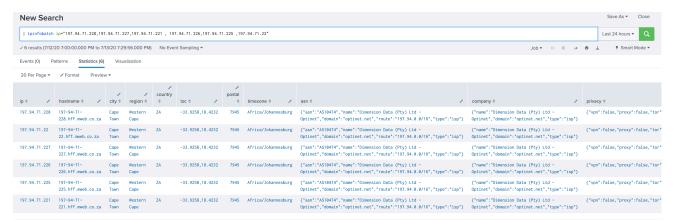
| makeresults | eval

ip="197.94.71.228,197.94.71.227,197.94.71.221,197.94.71.226,197.94.71.225,197.94.71.230" | makemv delim="," ip | mvexpand ip | ipinfolookup ip



----- IPInfo Batch -----

 $\label{eq:problem} \begin{tabular}{ll} | ipinfobatch ip="197.94.71.228,197.94.71.227,197.94.71.221 \ , \ 197.94.71.226,197.94.71.225 \ , 197.94.71.22" \end{tabular}$

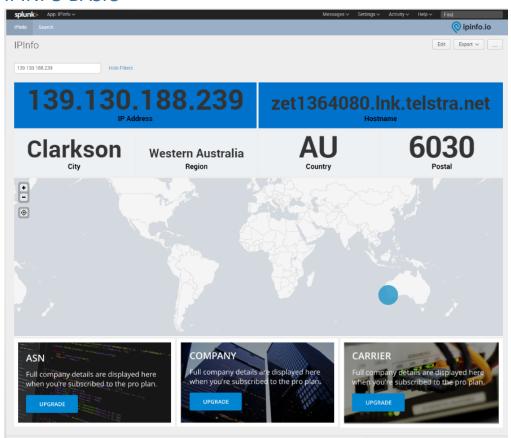






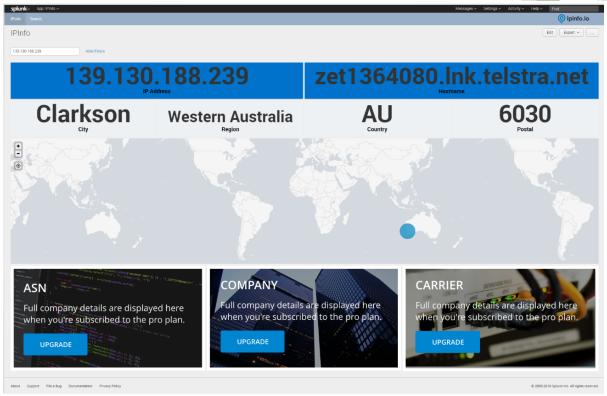


IPINFO BASIC

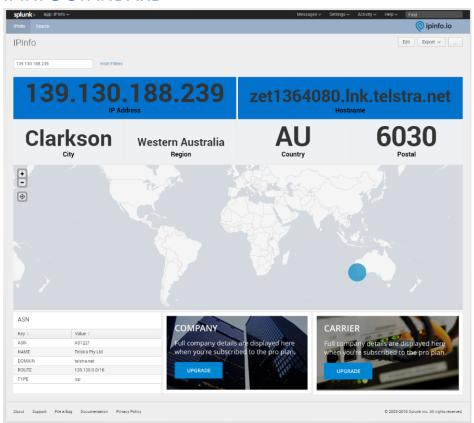






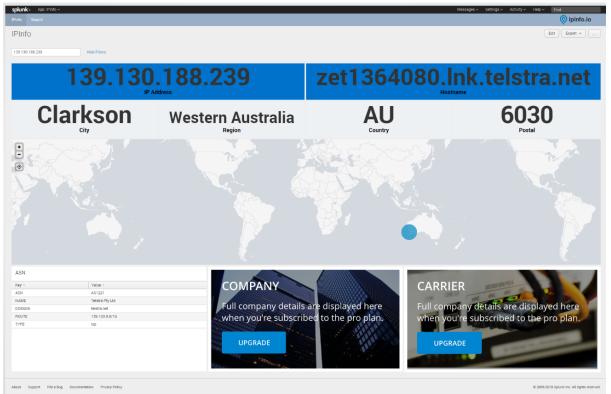


IPINFO STANDARD

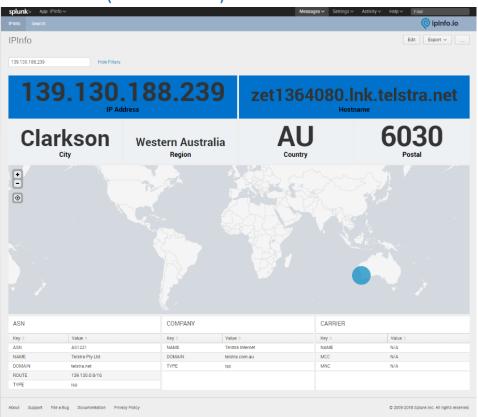






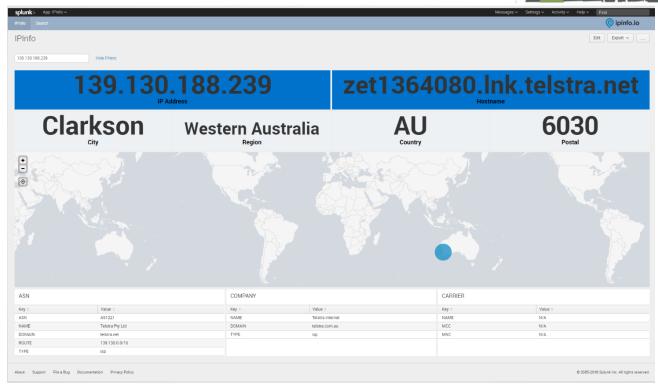


IPINFO PRO (NO CARRIER)









IPINFO PRO (WITH CARRIER)

