

# IPInfo App for Splunk

App Version: 1.1.3 BETA

Author: Neel Shah - Greenace Consultants

Description: Installation and Configuration Document for IPInfo App for Splunk

Latest Update Date: 20<sup>th</sup> June, 2018

## 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

## Supported OS

OS
Winsows 7
Windows 8
Windows 10
Windows Server 2012
RHEL 6
RHEL 7
UBUNTU 14

## Supported Splunk

Splunk
Splunk 6.5.X
Splunk 6.6.X
Splunk 7.0.X
Splunk 7.1.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)

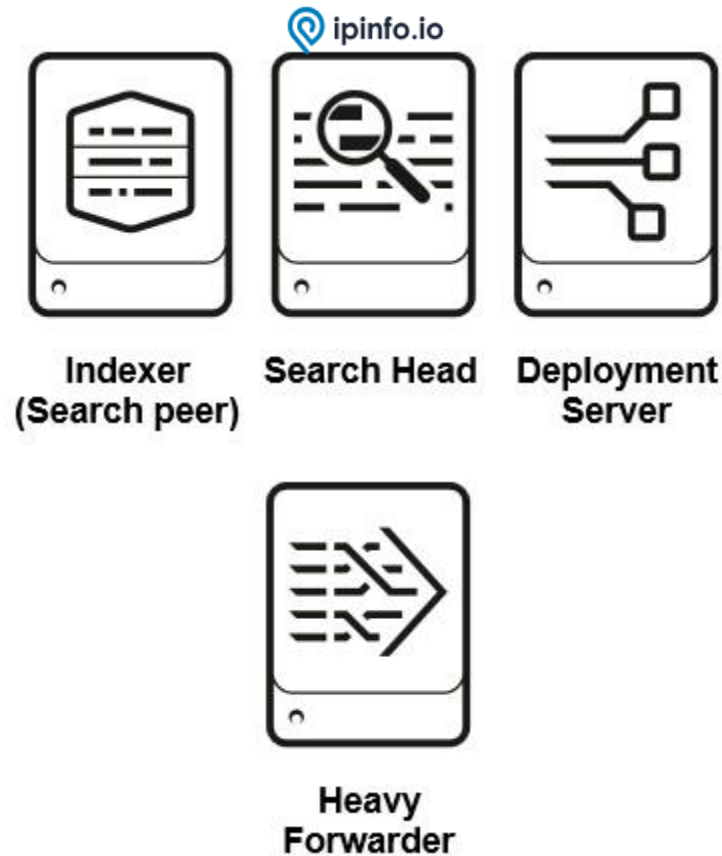
Single standalone Splunk Enterprise Installation on Windows/\*NIX



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**

## CASE2: DISTRIBUTED ARCHITECTURE

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



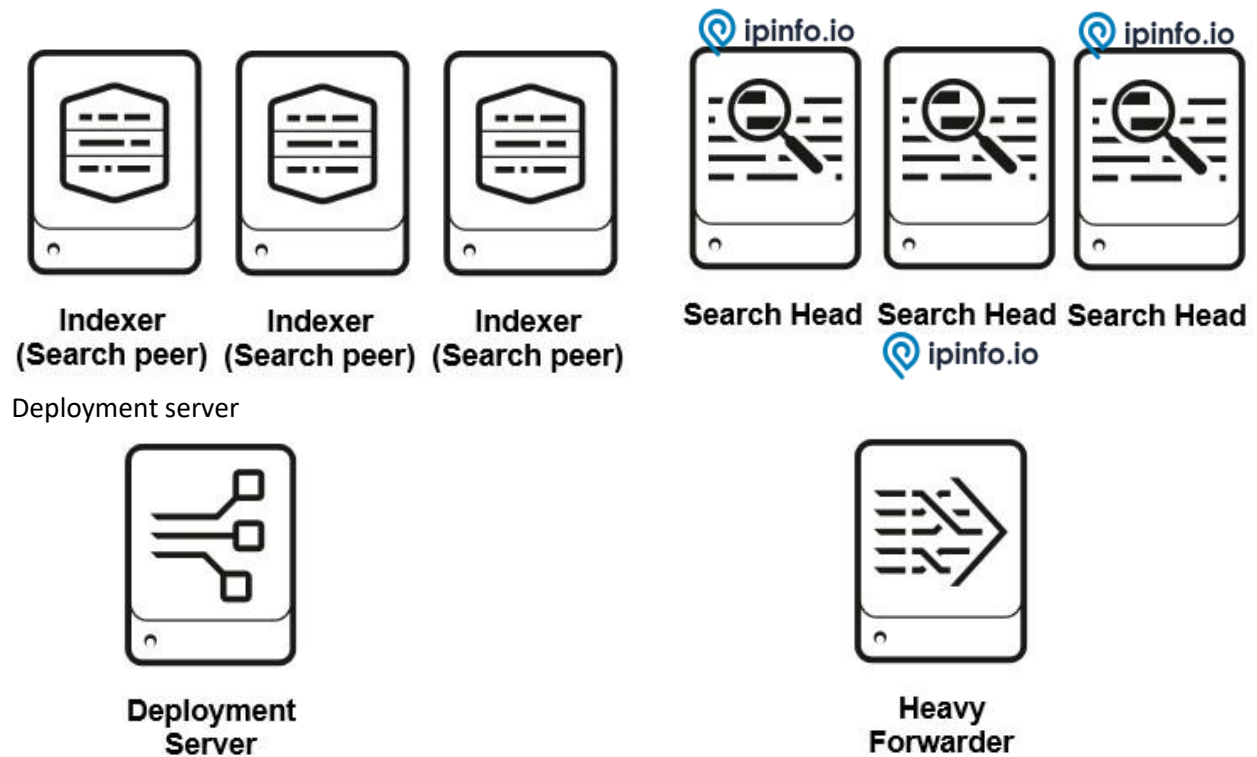
1. **Unzip ipinfo\_app.spl**
2. **Copy** the unzipped directory **ipinfo\_app** to deployment server in the following location **\$SPLUNK\_HOME/etc/deployment-apps/**
3. Add following to **serverclass.conf**

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

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

### CASE3: DISTRIBUTED ARCHITECTURE

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



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).

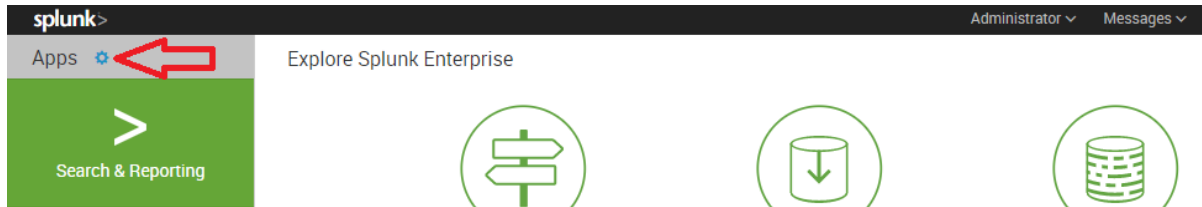


1. **Unzip `ipinfo_app.spl`**
2. **Copy `ipinfo_app`** to Deployer server in the following location `$SPLUNK_HOME/etc/shcluster/apps/`
3. **Open CLI** on Deployer and deploy the app on Search Head Cluster using following command  
`./splunk apply shcluster-bundle -target <URI>:<management_port> -auth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

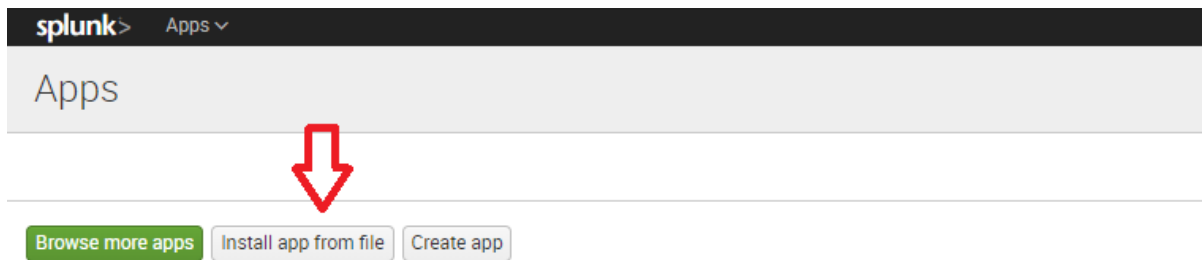


## CASE5: STANDALONE INSTALLATION (WEB)

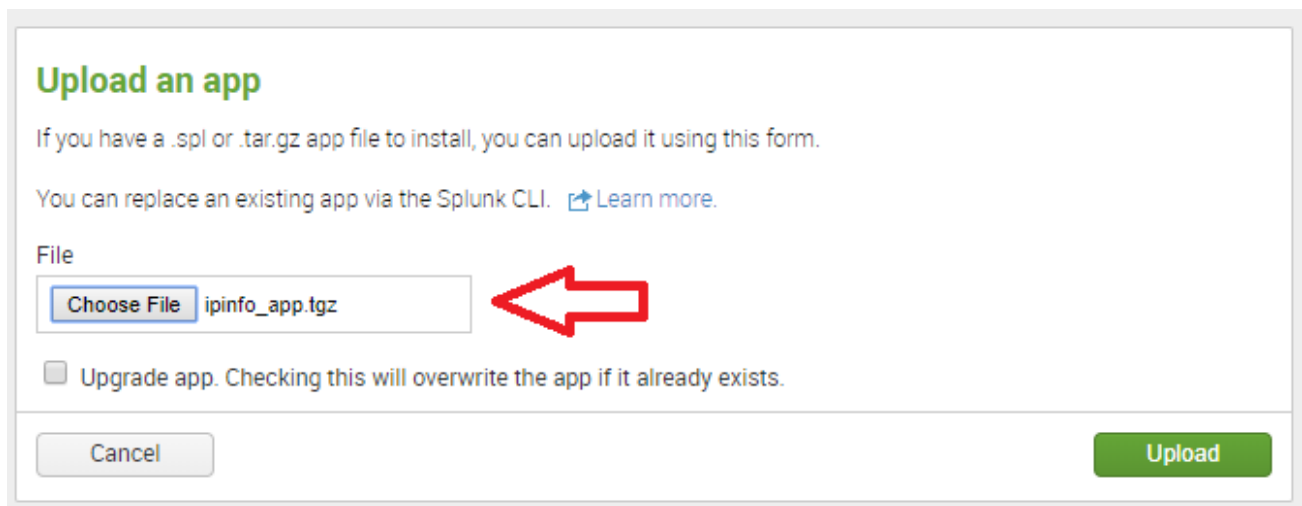
1. On the Splunk Home Page, Click on “Manage Apps”



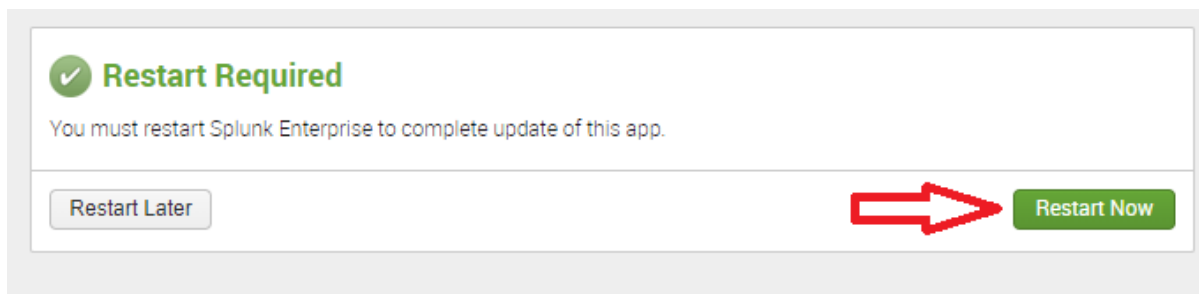
2. On the Manage Apps page, Click on “Install app from file”



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.

Apps

ipinfo

Browse more apps

Install app from file

Create app

Showing 1-2 of 2 items

Results per page 25

Name	Folder name	Version	Update checking	Visible	Sharing	Status	Actions
IPINFO	ipinfo_app	1.0.1Beta	Yes	No	Global   Permissions	Enabled   Disable	<a href="#">Set up</a>   <a href="#">Edit properties</a>   <a href="#">View objects</a>   <a href="#">View details on SplunkApps</a>

## API Configuration

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

### IPInfo API Configuration

Provide the API subscription details for IP Info

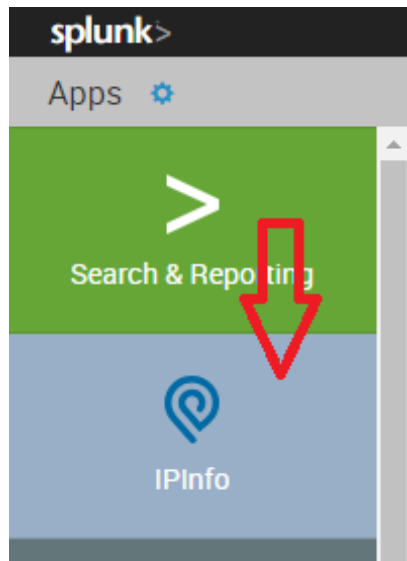
API URL

Authorization Token

Don't have token? Get it from [here](#).

CancelSave

## ACCESSING THE APP



## TEST COMMAND

```
| 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 BASIC

splunk> App: IPInfo Messages Settings Activity Help Find

IPInfo Search ipinfo.io Edit Export ...

139.130.188.239 Hide Filters

<b>139.130.188.239</b> IP Address		<b>zet1364080.lnk.telstra.net</b> Hostname	
<b>Clarkson</b> City	<b>Western Australia</b> Region	<b>AU</b> Country	<b>6030</b> Postal



**ASN**

Full company details are displayed here when you're subscribed to the pro plan.

UPGRADE

**COMPANY**

Full company details are displayed here when you're subscribed to the pro plan.

UPGRADE

**CARRIER**

Full company details are displayed here when you're subscribed to the pro plan.


UPGRADE

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UPGRADE

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**splunk** > App: IPInfo > Messages > Settings > Activity > Help > Find

IPInfo Search

139.130.188.239 Hide Filters

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<b>139.130.188.239</b>		<b>zet1364080.Ink.telstra.net</b>	
IP Address		Hostname	

<b>Clarkson</b>	<b>Western Australia</b>	<b>AU</b>	<b>6030</b>
City	Region	Country	Postal

A world map with a blue dot indicating the location in Western Australia.

ASN		COMPANY		CARRIER	
Key	Value	Key	Value	Key	Value
ASN	AS1221	NAME	Telstra Internet	NAME	N/A
NAME	Telstra Pty Ltd	DOMAIN	telstra.com.au	MCC	N/A
DOMAIN	telstra.net	TYPE	isp	MNC	N/A
ROUTE	139.130.0.0/16				
TYPE	isp				

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splunk

App: IPInfo

Messages

Settings

Activity

Help

Find

IPInfo

Search

IPInfo

139.130.188.239

Hide Filters

139.130.188.239

IP Address

zet1364080.lnk.telstra.net

Hostname

Clarkson

City

Western Australia

Region

AU

Country

6030

Postal

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ASN	COMPANY	CARRIER																												
<table> <tr> <th>Key</th> <th>Value</th> </tr> <tr> <td>ASN</td> <td>AS1221</td> </tr> <tr> <td>NAME</td> <td>Telstra Pty Ltd</td> </tr> <tr> <td>DOMAIN</td> <td>telstra.net</td> </tr> <tr> <td>ROUTE</td> <td>139.130.0.0/16</td> </tr> <tr> <td>TYPE</td> <td>isp</td> </tr> </table>	Key	Value	ASN	AS1221	NAME	Telstra Pty Ltd	DOMAIN	telstra.net	ROUTE	139.130.0.0/16	TYPE	isp	<table> <tr> <th>Key</th> <th>Value</th> </tr> <tr> <td>NAME</td> <td>Telstra Internet</td> </tr> <tr> <td>DOMAIN</td> <td>telstra.com.au</td> </tr> <tr> <td>TYPE</td> <td>isp</td> </tr> </table>	Key	Value	NAME	Telstra Internet	DOMAIN	telstra.com.au	TYPE	isp	<table> <tr> <th>Key</th> <th>Value</th> </tr> <tr> <td>NAME</td> <td>N/A</td> </tr> <tr> <td>MCC</td> <td>N/A</td> </tr> <tr> <td>MNC</td> <td>N/A</td> </tr> </table>	Key	Value	NAME	N/A	MCC	N/A	MNC	N/A
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## IPINFO PRO (WITH CARRIER)

**105.4.5.193**  
IP Address


**N/A**  
Hostname

**Germiston**  
City

**Gauteng**  
Region

**ZA**  
Country

**1401**  
Postal



ASN		COMPANY		CARRIER	
Key	Value	Key	Value	Key	Value
ASN	AS37168	NAME	NEOTEL GGSNZ	NAME	Cell C
NAME	Cell C (Pty) Ltd	DOMAIN	neotel.co.za	MCC	655
DOMAIN	cellc.co.za	TYPE	isp	MNC	7
ROUTE	105.4.0.0/14				
TYPE	isp				

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**105.4.5.193**  
IP Address


**N/A**  
Hostname

**Germiston**  
City

**Gauteng**  
Region

**ZA**  
Country

**1401**  
Postal



ASN		COMPANY		CARRIER	
Key	Value	Key	Value	Key	Value
ASN	AS37168	NAME	NEOTEL GGSNZ	NAME	Cell C
NAME	Cell C (Pty) Ltd	DOMAIN	neotel.co.za	MCC	655
DOMAIN	cellc.co.za	TYPE	isp	MNC	7
ROUTE	105.4.0.0/14				
TYPE	isp				

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