# Contents

)	r. DNAC v1.0	. 1
	Feature Name: Upload RCA	
	Script name: upload_rca.sh	
	Script name: uploadRca.py	
	Obtain CXD Token:	. 3
	Feature Name: Basic Health Check	4
	Script name: dnac_stats.sh	4
	Installation:	4
	Running:	5
	Removal / Cleanup:	5

# Dr. DNAC v1.0

Link to Git repo: <a href="https://github.com/sahanajoshi/dnacataglance">https://github.com/sahanajoshi/dnacataglance</a>

Repo version:

https://github.com/sahanajoshi/dnacataglance/tree/f818ceeeb148c4c9b169fc086b2aeb346022a686

Feature Name: Upload RCA Script name: upload\_rca.sh

Input required: Proxy settings( URL or IP, port, username, password)

Link to script: <a href="https://github.com/sahanajoshi/dnacataglance/blob/master/upload\_rca.sh">https://github.com/sahanajoshi/dnacataglance/blob/master/upload\_rca.sh</a>

Figure 1: Sample input for RCA upload

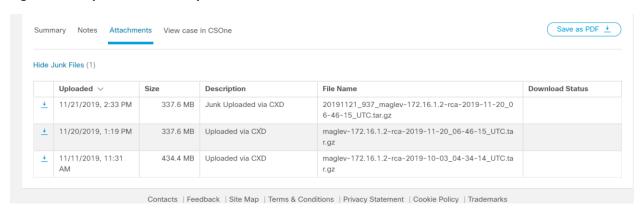
```
[Tue Dec 03 06:07:44 UTC] maglev@172.16.1.3 (maglev-master-1) dnacataglance
$ ./upload_rca.sh
Enter Proxy settings. Hit Enter to proceed if field is Not Applicable
Enter HTTPS Proxy URL/ IP: 72.163.217.40
Enter Proxy port number: 8080
Enter Proxy username( if any):
Enter Proxy password( if any):
Setting proxy. No proxy credentials. Proceeding
These are the rca files available:
total 312512
-rw-r--r-- 1 root root 319980869 May 10 2019 maglev-172.16.1.3-rca-2019-05-10 08-41-19 UTC.tar.gz
drwxr-xr-x 2 root root 4096 Jul 19 04:47 maglev-172.16.1.3-rca-2019-07-19_04-46-50_UTC

      drwxr-xr-x 2 root
      root
      4096 Sep 20 09:55 maglev-172.16.1.3-rca-2019-09-20_09-54-5/_UIC

      drwxr-xr-x 2 root
      root
      12288 Nov 6 04:34 maglev-172.16.1.3-rca-2019-11-06_04-31-41_UTC

-rw-rw-r-- 1 maglev maglev 9 Sep 22 05:15 testFile.txt
Checking internet connectivity.
Internet check successful. Proceeding
Enter the SR number of the case: 687869544
Enter the CXD token of the case: bq9Q2CFk4SzoqKpy
Enter the rca file to be uploaded: maglev-172.16.1.3-rca-2019-05-10_08-41-19_UTC.tar.gz
[Tue Dec 03 06:09:52 UTC] maglev@172.16.1.3 (maglev-master-1) dnacataglance
$ nohup: appending output to 'nohup.out'
[Tue Dec 03 06:09:58 UTC] maglev@172.16.1.3 (maglev-master-1) dnacataglance
```

Figure 2: Sample case of RCA upload as visible to the customer



Once the internet check is successful, **upload\_rca.sh** will trigger **uploadRca.py** which runs in the background.

Script name: uploadRca.py

**Input required**: SR number, CXD token, RCA file name (.tar.gz file)

Link to script: https://github.com/sahanajoshi/dnacataglance/blob/master/uploadRca.py

**Python installation used**: /opt/maglev/bin/python (Python 2.7). It comes as part of DNAC installation.

Port / Protocols to be enabled: HTTPS (TCP Port 443) enabled for URL: <a href="https://cxd.cisco.com/home/">https://cxd.cisco.com/home/</a>

Test to check if ports are open: curl <a href="https://cxd.cisco.com/home/">https://cxd.cisco.com/home/</a>

If you receive a JSON response like: {"errors": [{"message": "You are not authenticated. Please try again using valid credentials or contact the system administrator for more details.", "title": "Unauthorized"}]}

The ports are open.

Upload Requirements: Bandwidth to upload 300~400 MB file.

#### Error codes:

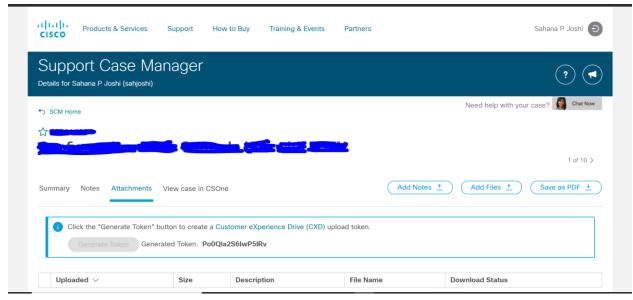
Code	Reason	Resolution
401	Unauthorized request	Check SR number or CXD token
201	Successful upload	-

Since this process of upload is running in the background, the SSH session to the DNAC can be closed after initiating upload. To confirm upload success, run **cat nohup.out.** 

### Obtain CXD Token:

CXD token is generated by CSOne for every case opened. It can be found in the following ways:

It is available to the customer on <a href="https://mycase.cloudapps.cisco.com/">https://mycase.cloudapps.cisco.com/</a> > Case > Attachments > Generate Token



- It is also available to the customer as part of the initial automatic mail sent out.
- It is available to the TAC engineer as part of case notes.

Feature Name: Basic Health Check

Script name: dnac stats.sh

**Input required**: Admin and maglev passwords whenever prompted

Link to script: <a href="https://github.com/sahanajoshi/dnacataglance/blob/master/dnac">https://github.com/sahanajoshi/dnacataglance/blob/master/dnac</a> stats.sh

Commands	Purpose	Time required to complete running
sudo dmidecode -s system-serial-number	Serial number	Negligible
<pre>more /sys/devices/virtual/dmi/id/product_name</pre>	Appliance name	Negligible
magctl appstack status   grep 0/	Fetch processes which have pods not in running state	~ 5 sec
etcdctl member list	List all nodes in DNAC deployment, along with cluster IP and leader	Negligible
uname -a	Kernel and OS	Negligible
etcdctl cluster-health	Cluster health	Negligible
maglev package status	Display package versions	~ 5 sec
ip a   grep enp	Interface IP configurations	Negligible
magctl service logs -r identity-manager- pxgrid-service   egrep	Parse logs of Identity	~ 10 sec
Disconnect ERROR   grep \$date	Manager Service and grep for Disconnect or Error messages on that day	Depends on the log file size
magctl service logs -r network-design- service   egrep 'UNTRUSTED ERROR'	Parse logs of Network Design Service and grep for	~ 10 sec Depends on the log file
grep \$date	Disconnect or Error messages on that day	size

## Installation:

Port / Protocols to be enabled: HTTPS (TCP Port 443) enabled for URL: <a href="https://github.com/">https://github.com/</a>

Clone the repository: git clone <a href="https://github.com/sahanajoshi/dnacataglance.git">https://github.com/sahanajoshi/dnacataglance.git</a>

Verify installation by running: Is ( dnacataglance directory is created)

Figure 3: Successful Cloning of repository

### Running:

cd dnacataglance

To run RCA upload: ./upload\_rca.sh

To run DNAC stats: ./dnac\_stats.sh

Removal / Cleanup:

Run: rm -rf dnacataglance