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## Dr. DNAC v1.0

Link to Git repo: <https://github.com/sahanajoshi/dnacataglance>

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:** [https://github.com/sahanajoshi/dnacataglance/blob/master/upload\\_rca.sh](https://github.com/sahanajoshi/dnacataglance/blob/master/upload_rca.sh)

**Figure 1: Sample input for RCA upload**

```

[Tue Dec 03 06:07:44 UTC] maglev@172.16.1.3 (maglev-master-1) dnacataglace
$ ./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_09-54-57.UTC
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) dnacataglace
$ nohup: appending output to 'nohup.out'

[Tue Dec 03 06:09:58 UTC] maglev@172.16.1.3 (maglev-master-1) dnacataglace
$ █

```

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

Summary

Notes

Attachments

View case in CSOne

Save as PDF

Hide Junk Files (1)

	Uploaded	Size	Description	File Name	Download Status
	11/21/2019, 2:33 PM	337.6 MB	Junk Uploaded via CXD	20191121_937_maglev-172.16.1.2-rca-2019-11-20_06-46-15_UTC.tar.gz	
	11/20/2019, 1:19 PM	337.6 MB	Uploaded via CXD	maglev-172.16.1.2-rca-2019-11-20_06-46-15_UTC.tar.gz	
	11/11/2019, 11:31 AM	434.4 MB	Uploaded via CXD	maglev-172.16.1.2-rca-2019-10-03_04-34-14_UTC.tar.gz	

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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: <https://cxd.cisco.com/home/>

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

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 <https://mycase.cloudapps.cisco.com/> > Case > Attachments > Generate Token

The screenshot shows the Cisco Support Case Manager interface. At the top, there's a navigation bar with links like 'Products & Services', 'Support', 'How to Buy', 'Training & Events', and 'Partners'. The user 'Sahana P Joshi' is logged in. The main header is 'Support Case Manager' with a sub-header 'Details for Sahana P Joshi (sahjoshi)'. Below this, there's a section for 'SCM Home' with a star icon and a blue bar. A message says 'Need help with your case? Chat Now'. There's a '1 of 10' indicator. Below the message, there are tabs for 'Summary', 'Notes', 'Attachments', and 'View case in CSOne'. The 'Attachments' tab is active. There are buttons for 'Add Notes', 'Add Files', and 'Save as PDF'. A message box says 'Click the "Generate Token" button to create a Customer eXperience Drive (CXD) upload token.' Below this, there's a 'Generate Token' button and the text 'Generated Token: Po0Qla2S6lwP5IRv'. At the bottom, there's a table with columns: 'Uploaded', 'Size', 'Description', 'File Name', and 'Download Status'.

- 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:** [https://github.com/sahanajoshi/dnacataglance/blob/master/dnac\\_stats.sh](https://github.com/sahanajoshi/dnacataglance/blob/master/dnac_stats.sh)

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

**Installation:**

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

Clone the repository: `git clone https://github.com/sahanajoshi/dnacataglance.git`

Verify installation by running: `ls` ( dnacataglance directory is created)

**Figure 3: Successful Cloning of repository**

```
[Mon Dec 02 16:45:11 UTC] maglev@172.16.4.1 (maglev-master-1) ~  
$ git clone https://github.com/sahanajoshi/dnacataglance.git  
Cloning into 'dnacataglance'...  
remote: Enumerating objects: 10, done.  
remote: Counting objects: 100% (10/10), done.  
remote: Compressing objects: 100% (10/10), done.  
remote: Total 10 (delta 1), reused 8 (delta 0), pack-reused 0  
Unpacking objects: 100% (10/10), done.  
Checking connectivity... done.
```

```
[Mon Dec 02 16:45:17 UTC] maglev@172.16.4.1 (maglev-master-1) ~  
$ █
```

#### Running:

cd dnacataglance

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

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

#### Removal / Cleanup:

Run: rm -rf dnacataglance