

# **CR Audit**

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## Chapter 1: Introduction

Figure 1 shows a picture of the mail received every Monday. The network admin/ engineer/ manager must verify the date of the last backup performed and retrieve the ones that did not back up, which is time-consuming and repetitive. Afterward, investigate why the backups are not being performed and debug.

On the date that Figure 1 there were: -

- Backup des SWITCH = 89
- Backup CKP = 28
- Backup BIGIP = 37

According to research workers that do repetitive jobs or specialized are: -

- No socializing opportunities
- Loses overall sight
- Gets boring
- The company suffers, etc....

The benefit of automating those tasks will be: -

- Reduce errors
- Less time consuming
- 1 script works faster than 1 person
- Reduce Risk of human errors and more reliable
- Motivate the workers to learn new tasks
- Ease the workers' life
- Company evolves

The best way of performing the 1<sup>st</sup> task (The network admin/ engineer/ manager must verify the date of the last backup performed and retrieve the ones that did not back up) is by adding an excel file with all listed backups. Then apply the desired filters.

[AUDIT] Audit Du 09-11-2020



root <root@lbn-ris-wiki-01.linkbynet.lbn.fr>  
To RIS-RSX

Bonjour,

CR Audit

### Backup des SWITCH

ARISTA-SW-AGILE2-TC1-B13\_B14-2-20201108.cfg  
ARISTA-SW-CLIENT-IE2-C6-2-20201108.cfg  
ARISTA-SW-CLIENT-PA6-A05-2-20201108.cfg  
ARISTA-SW-LBN-AGILE3-MTL4-A316-2-20201108.cfg  
ARISTA-SW-LBN-AGILE3-MTL4-A317-2-20201108.cfg  
ARISTA-SW-LBN-CSP-PA2-B7-B8-2-20201108.cfg  
ARISTA-SW-LBN-CSP-TC1-B13-B14-2-20201108.cfg  
ARISTA-SW-LBN-IE2-A6-A7-2-20201108.cfg  
ARISTA-SW-LBN-IE2-B07\_B08-2-20201108.cfg  
ARISTA-SW-LBN-IE2-D2-2-20201108.cfg  
ARISTA-SW-LBN-TC1-B15-2-20201108.cfg  
ARISTA-SW-LBN-VALLEY-CORE-02-20201108.cfg  
ARISTA-SWCORE-LBN-CNX-A316.A317-2-20201108.cfg  
ARISTA-SWCORE-LBN-FR6-B3B4-02-20201108.cfg  
ARISTA-SWCORE-LBN-IE1-A1\_A2-2-20201108.vlan-tg  
ARISTA-SWCORE-LBN-IE1-A1\_A2-1-20201108.vlan-tg  
ARISTA-SWCORE-LBN-IE1-A1\_A2-2-20201108.vlan-tg  
ARISTA-SWCORE-LBN-IE2-C2\_C3-2-20201108.cfg  
ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201108.vlan-tg  
ARISTA-SWCORE-LBN-TC1-A1.A3-1-20201108.vlan-tg

Figure 1: Weekly CR Audit mail

## Chapter 2: Research

### 2.1 Programming languages

Programming languages that can manipulate excel: -

- Java,
- Python,
- VBA,
- esProc SPL,
- vb.net, etc...

Cross-platform programming languages: -

- Python,
- Java,
- C++,
- C#,
- JavaScript, etc....

Best languages for the job: -

- Python (Selected)
- Java

### 2.2 Structure of the existing system

#### 2.2.1 Overview

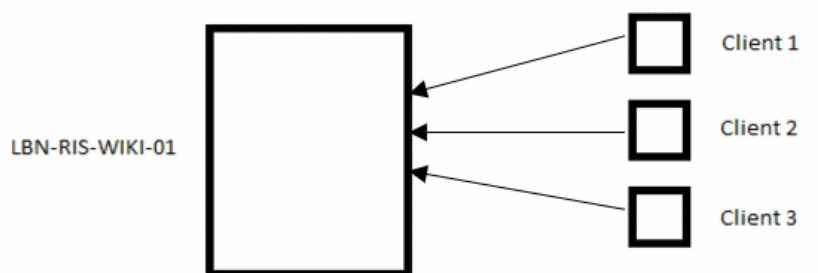


Figure 2: Clients sending backups to LBN-RIS-WIKI-01

Figure 2 above illustrates how clients' backups are made and sent to the machine LBN-RIS-WIKI-01.

## 2.2.2 Flow of the system

### 2.2.2.1 Crontab

Figure 3 below shows the crontab (task scheduler) of LBN-RIS-WIKI-01. Our concern is about the “send mail for AUDIT RSX”.

```
#
#RUN move_bkp.sh to move backup files from /home/backups/scp to bigip_bkp, checkpoint_bkp etc
00 5 * * 6 /home/backups/script/move_bkp.sh > /dev/null 2>&1
*/15 * * * * /home/sites_web/client/www.noc.wiki.lbn.fr/www/maintenance/runJobs.php > /var/log/runJobs.log 2>&1
#Run script to check backup status
15 5 * * * /home/backups/script/backup_status.sh
#send mail for AUDIT RSX
30 5 * * * 1 /usr/local/linkbynet/scripts/Audit_Reseau/audit-reseau.pl > /usr/local/linkbynet/scripts/Audit_Reseau/CR
#Run script for check vlan trunk group at 6:00 am
00 6 * * * /home/scripts/Arista-check-TG/TGcompatibility > /dev/null 2>&1
#Run script for list backup at 7:00 am
00 7 * * * /home/scripts/List-Backup/list-backup.sh > /dev/null 2>&1
```

Figure 3: crontab of LBN-RIS-WIKI-01

The crontab will run the script “audit-reseau.pl” and will send all output from it to the file “CR”. For a better understanding, the script “audit-reseau.pl” must be analyzed.

### 2.2.2.2 audit-reseau.pl

As seen from the Annex 1, the script is outputting a HTML format.

```
print "Bonjour,<br>\n";
print "<h3 align=center>CR Audit </h3>";
print "<br>";
print "<b> Backup des SWITCH </b><br>";
print "<br>\n";
```

Get in the following directories: -

```
$path = "/home/backups/switch_bkp";
$path = "/home/backups/checkpoint_bkp";
$path = "/home/backups/bigip_bkp";
```

And output their respective latest backup: -

```
print "$files_latest_hp[$#files_latest_hp]<br>\n";
print "$files_latest_ckp[$#files_latest_ckp]<br>\n";
print "$files_latest_bigip[$#files_latest_bigip]<br>\n";
```

Followed by the closing: -

```
print "Bonne journee.<br>";
print "<br>";
print "Cordialement,<br>";
print "Linkbynet <br>";
```

Then send the mail with a program available in unix system(mutt)

```
system("/bin/bash /usr/local/linkbynet/scripts/Audit_Reseau/sendmail.sh");
```

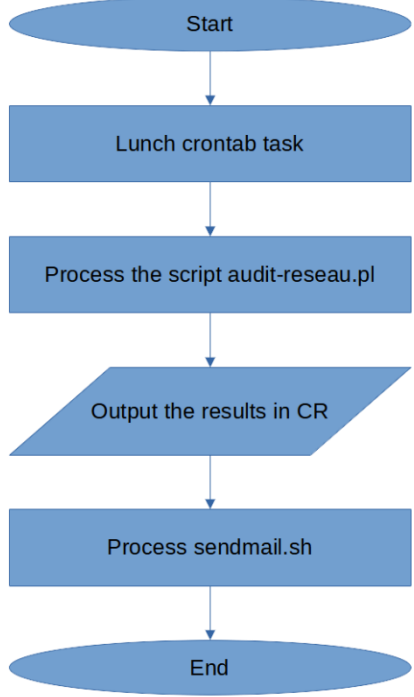
### 2.2.2.3 sendmail.sh

```
/usr/bin/mutt -e "set content_type=text/html" admin-rsx@linkbynet.com -s "[AUDIT] Audit  
Du `/bin/date +%d-%m-%Y`" -i /usr/local/linkbynet/scripts/Audit_Reseau/CR </dev/null
```

The “sendmail.sh” consist of only one line: -

- -e "set content\_type=text/html"
  - o -e <command> specify a command to be executed after initialization
  - o Specifying that the mail’s type is in text and subtype HTML format
- -i /usr/local/linkbynet/scripts/Audit\_Reseau/CR </dev/null
  - o -i <file> specify a file which Mutt should include in the body
  - o CR is the file to be sent as an HTML body (Annex 2 shows an example of a CR file)
- -s "[AUDIT] Audit Du `/bin/date +%d-%m-%Y`"
  - o -s <subj> specify a subject (must be in quotes if it has spaces)
  - o The mail subject will be "[AUDIT] Audit Du dd-mm-YYYY"

## 2.3 Conclusion

Pseudo code	Flowchart
<p>Start</p> <ul style="list-style-type: none"><li>- Lunch crontab task</li><li>- Run the script “audit-reseau.pl” and output all results in the file CR</li><li>- Run the script “sendmail.sh” to send the mail</li></ul> <p>End</p>	 <pre>graph TD; Start([Start]) --&gt; Lunch[Lunch crontab task]; Lunch --&gt; Process[Process the script audit-reseau.pl]; Process --&gt; Output[/Output the results in CR/]; Output --&gt; Send[Process sendmail.sh]; Send --&gt; End([End]);</pre>

The above investigation shows that the best place to extract the backups and put them in an excel file is between “Output the results in CR” and “Process sendmail.sh” as shown in Figure 4 below. In that way, the Highlight.py script will read from “CR” and reduce the impact on the audit-reseau.pl.

As per “CR”, the majority of lines are formatted as “Backup\_<Machine’s name>\_yyyymmdd(.extension if any)”. There were 21 which did not respect the formatting. The best solution will be following the majority.

Some backups are made each 9 days. Therefore, the best solution will be to highlight the ones that did not backup for the duration of 2 weeks.

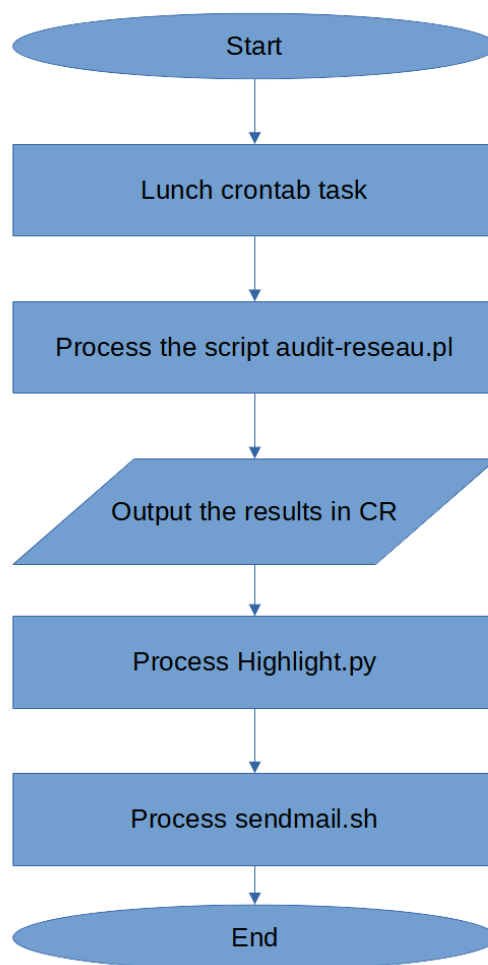


Figure 4: Adding Highlight.py in the existing system



## Chapter 3: Design

### 3.1 Flowchart

A flowchart will be designed to illustrate clearly the steps performed while programming.

#### 3.1.1 Key(legend)

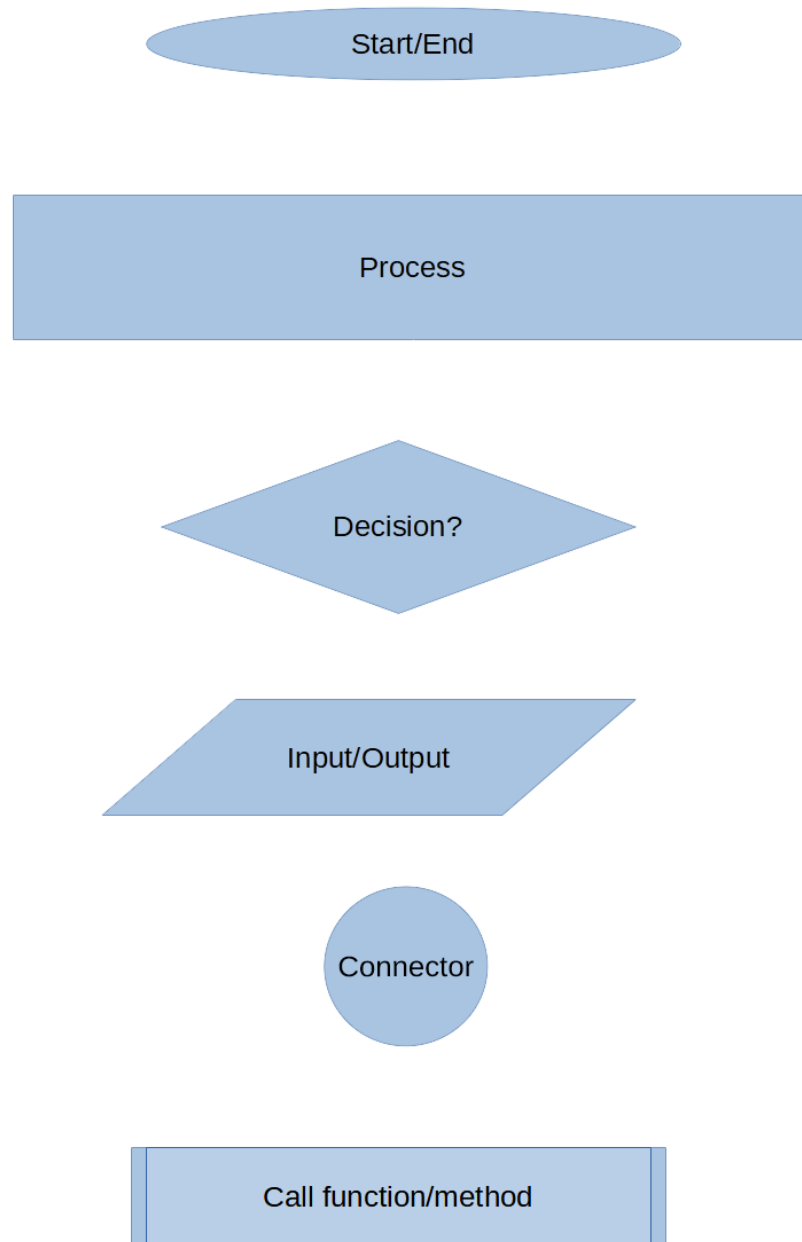


Figure 5: Symbols used in flowchart

### 3.1.2 Flowchart Highlight.py

The flowchart design is the core of this program/script. Someone having that flowchart could easily replicate the program/script in whatever programming language he/she wants.

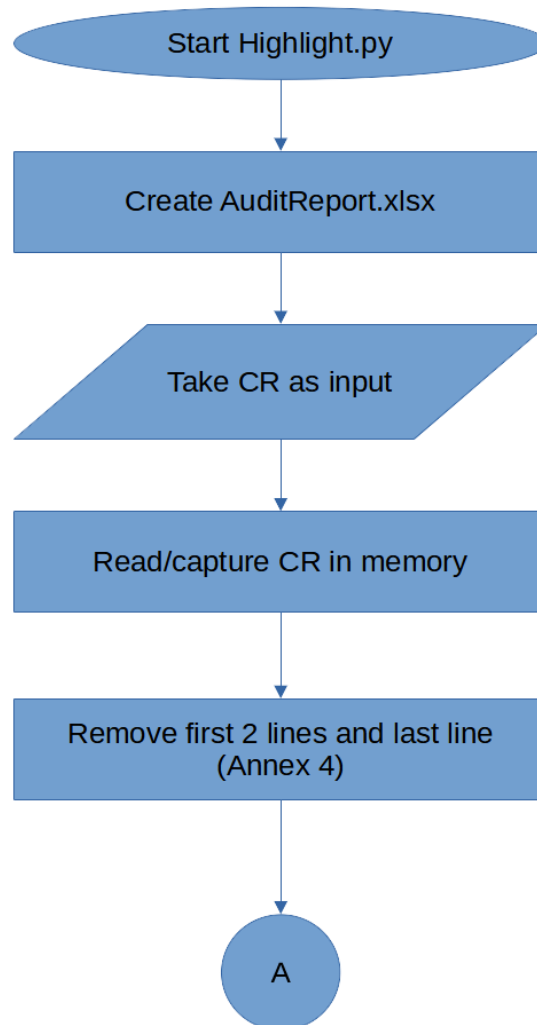


Figure 6: Flowchart Highlight.py (part I)

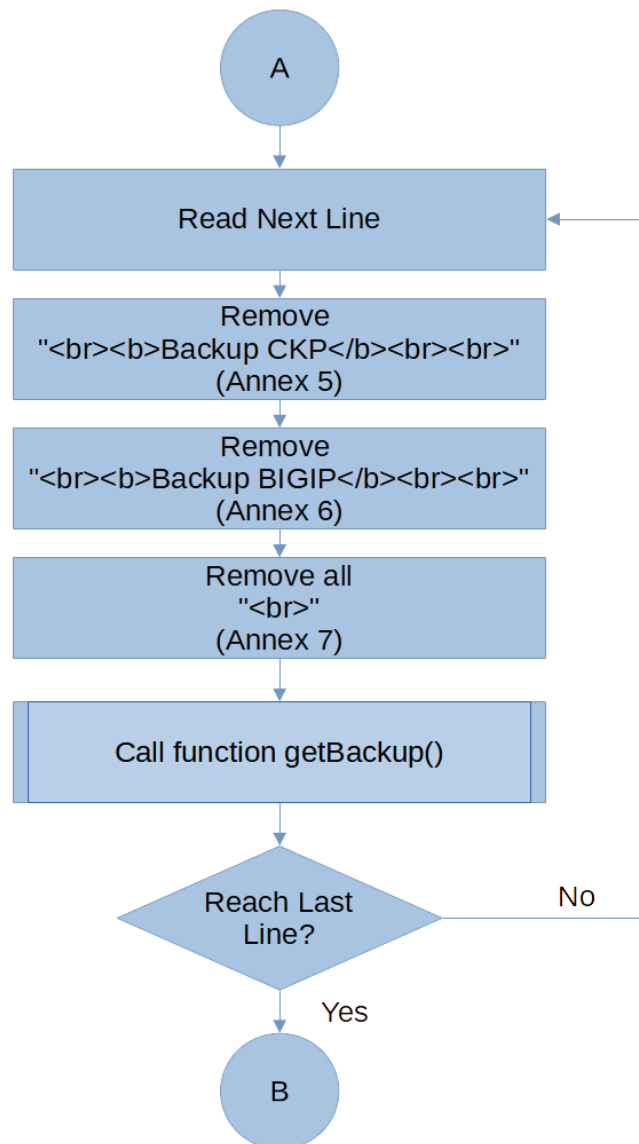


Figure 7: Flowchart Highlight.py (part II)

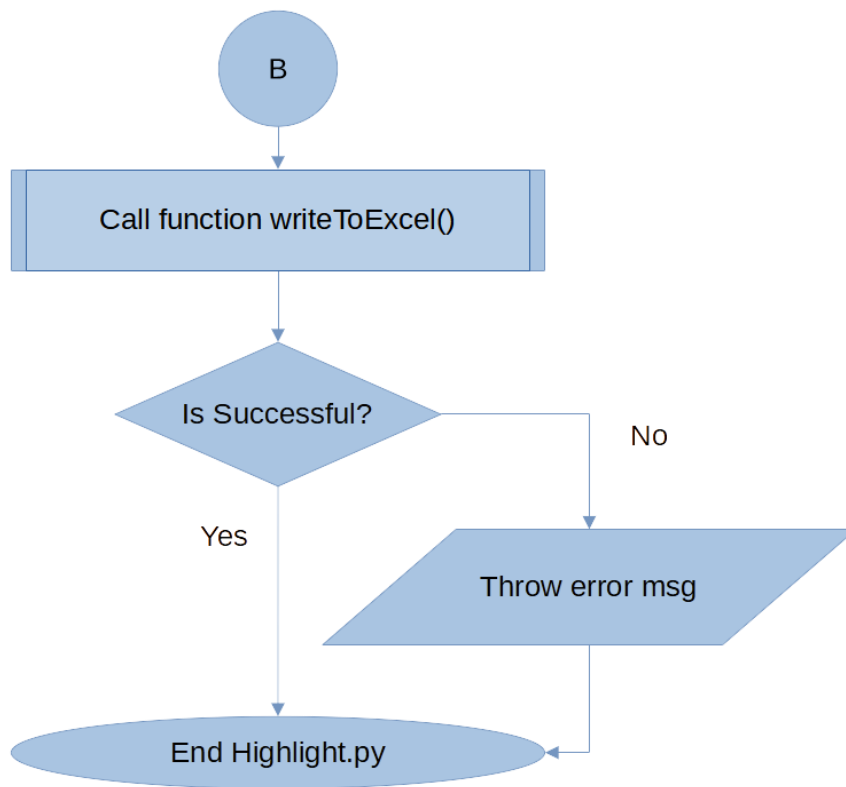


Figure 8: Flowchart Highlight.py (part III)

### 3.1.2.1 Flowchart getBackup() method from Highlight.py

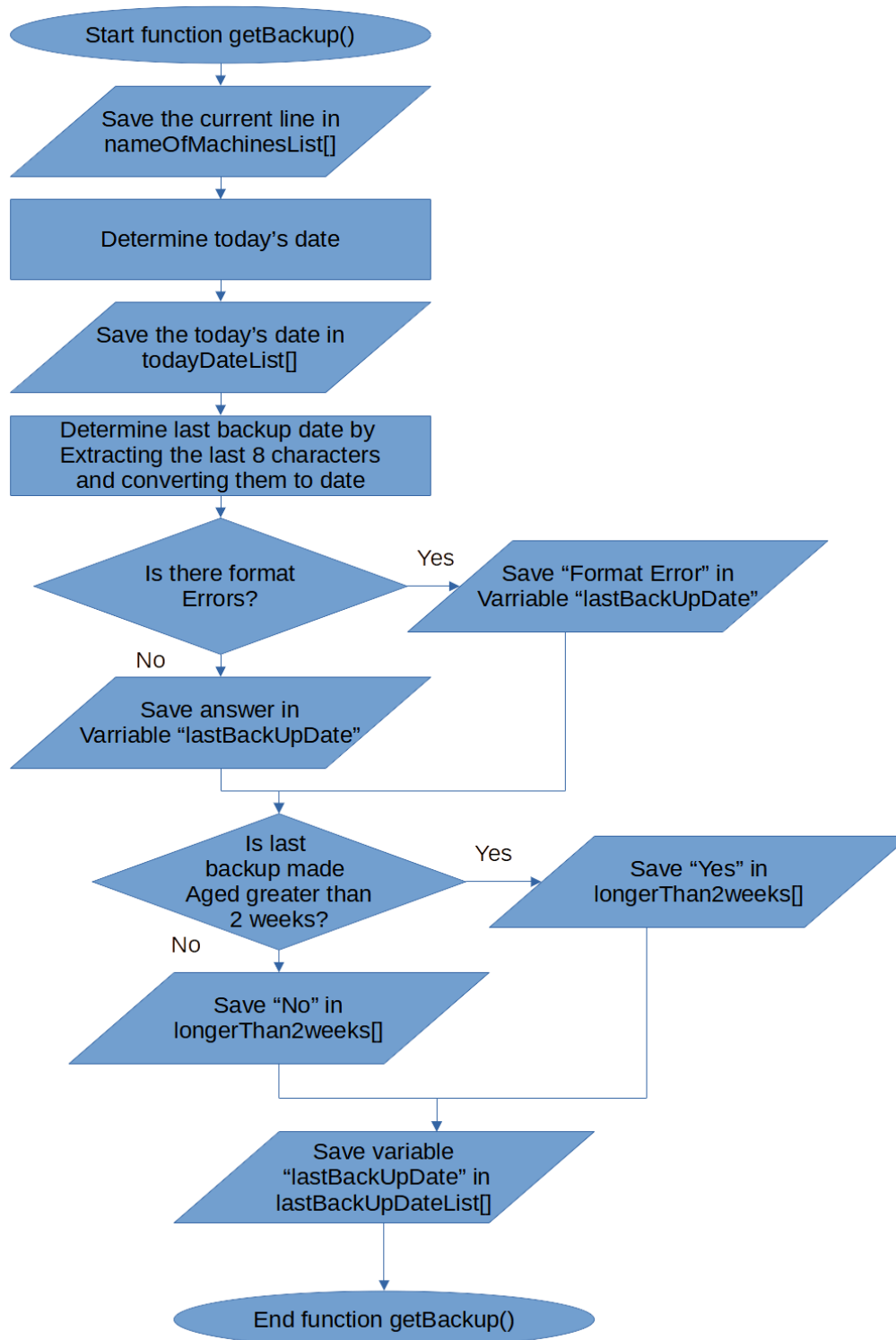


Figure 9: Flowchart for getBackup()

### 3.1.2.2 Flowchart writeToExcel() method from Highlight.py

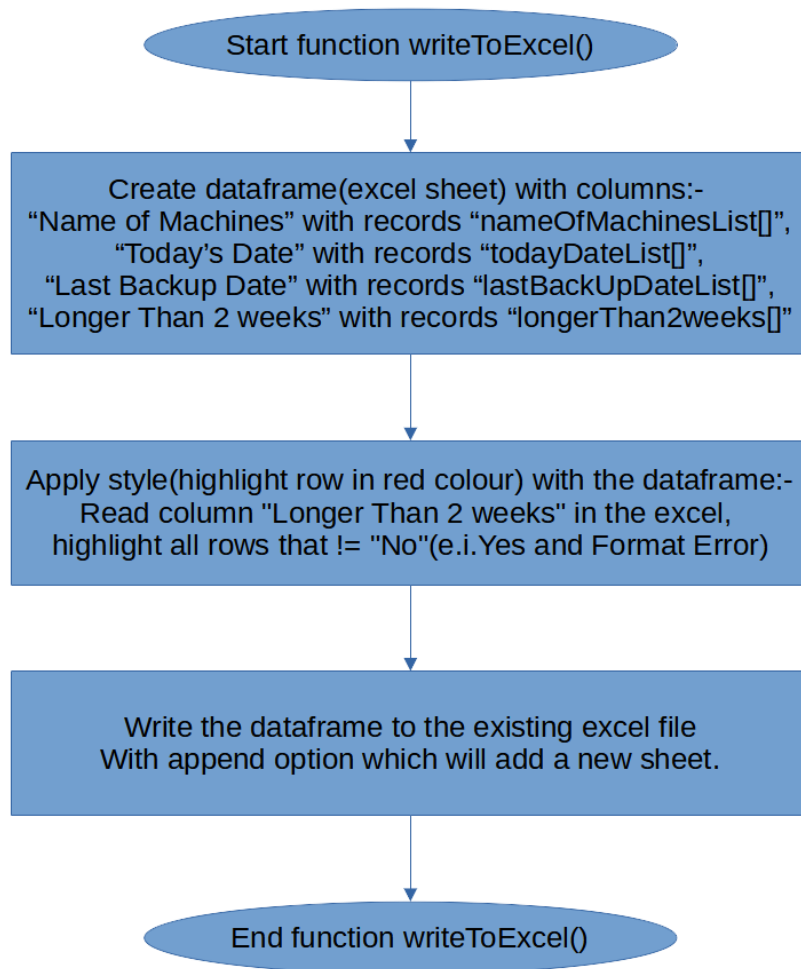


Figure 10: Flowchart for writeToExcel()

## 3.2 Designing the Excel file

### 3.2.1 Instructions Sheet

For any user to use the program correctly and to be able to locate any problem afterward, an instructions sheet was created. As a bonus, some links were added to help with the use of filters.

The screenshot shows an Excel spreadsheet with the following content:

Instructions			
1	Clients' machines	Use the following format for backups:	Backup_XXX_yyyymmdd(.extension if any)
2	LBN-RIS-WIKI-01	Do NOT bring changes to the following directory and the files inside:	/usr/local/linkbynet/scripts/Audit_Reseau/
3	LBN-RIS-WIKI-01	Do NOT bring changes to the following line in the crontab:	#send mail for AUDIT RSX
4			30 5 * * 1 /usr/local/linkbynet/scripts/Audit_Reseau/audit-reseau.pl > /usr/local/linkbynet/scripts/Audit_Reseau/CR
5			
6			
7			
8			
9			
10			
11	Useful links		
12	Languages	Links	
13	Français	<a href="https://support.office.com/fr-fr/article/formation-excel-pour-windows-9bc05390-e94c-46af-a5b3-d7c22f6990bb">https://support.office.com/fr-fr/article/formation-excel-pour-windows-9bc05390-e94c-46af-a5b3-d7c22f6990bb</a>	
14	English	<a href="https://support.office.com/en-gb/article/excel-for-windows-training-9bc05390-e94c-46af-a5b3-d7c22f6990bb?ui=en-US&amp;rs=en-GB&amp;ad=GB">https://support.office.com/en-gb/article/excel-for-windows-training-9bc05390-e94c-46af-a5b3-d7c22f6990bb?ui=en-US&amp;rs=en-GB&amp;ad=GB</a>	
15			
16			
17			
18			
19			
20			
21			
22			

The spreadsheet also shows a status bar at the bottom with the following information: **Instructions** | Example(2020-11-12) | 2020-12-08 | +

Figure 11: Instructions in AuditReport.xlsx

### 3.2.2 Example Sheet

An example was added to help newcomers in performing the task.

	A	B	C	D
1	Name of Machines	Today's Date	Last Backup Date	Longer Than 2 weeks
2	ARISTA-SW-AGILE2-TC1-B13_B14-2-20201101.cfg	2020-11-12	2020-11-01	No
3	ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201101.vlan-tg	2020-11-12	2020-11-01	No
4	SW-PSG-TC-1-20201101	2020-11-12	2020-11-01	No
5	Backup_AUCHAN-DPC-OVH-CKP-SMS_20201101.tgz	2020-11-12	2020-11-01	No
6	Backup_ERM-CKP-SMS-01.euromaster.lbn.pa6.aub.linkbynet.com_20201101.tgz	2020-11-12	2020-11-01	No
7	Backup_SMC-DASSAULT_20201027.tgz	2020-11-12	2020-10-27	Yes
8	Backup_SMC-PCIS-IE_20201027.tgz	2020-11-12	2020-10-27	Yes
9	backup_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com_20201001.tgz	2020-11-12	2020-10-01	Yes
10	backup_uxdefk-ckplog2p.rs.sdxcorp.net_20201015.tgz	2020-11-12	2020-10-15	Yes
11	backup_uxdefk-ckplog2p.rs.sdxcorp.net_20201101.tgz	2020-11-12	2020-11-01	No
12	BIGIP-LVMH-1_20201101.ucs	2020-11-12	2020-11-01	No
13	BIGIP-LVMH-2_20201101.ucs	2020-11-12	2020-11-01	No
14	uxfrlb-vf5mut2p_2020_11_01.ucs	2020-11-12	Format Error	Format Error
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Figure 12: Example Sheet

The excel file is then copied in the following directory:

/usr/local/linkbynet/script/Audit\_Reseau/AuditReport.xlsx.bak



## Chapter 4: Testing

### 4.1 Receive mail testing

To make the script “Highlight.py” run within the script “audit-reseau.pl”, the following line is added just before send mail command as illustrated in Chapter 2 Section 3(Annex 8 contain the full audit-reseau.pl script):

```
system("python3 /usr/local/linkbynet/scripts/Audit_Reseau/Highlight.py");
```

In order not to disturb others, the mail address was changed to [ar.poolian@linkbynet.com](mailto:ar.poolian@linkbynet.com) in the “sendmail.sh” script. The following command was run in LBN-RIS-WIKI-01:

```
/usr/local/linkbynet/script/Audit_Reseau/audit-reseau.pl >  
/usr/local/linkbynet/script/Audit_Reseau/CR
```

Figure 13 below shows the mail received after running the above command. The script sends the attachment successfully.

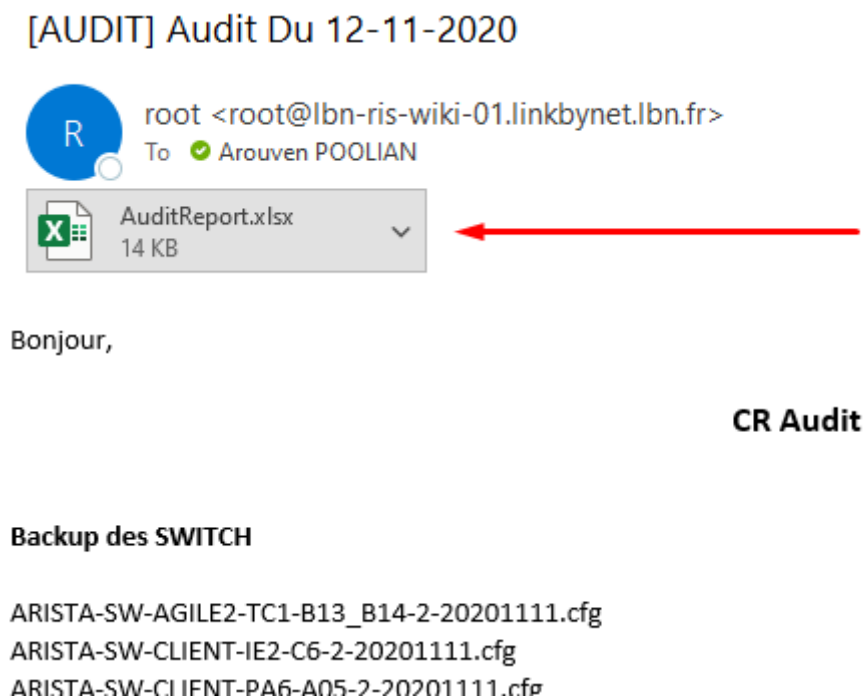


Figure 13: Received mail

## 4.2 Excel Testing

Figure 14 shows how the received AuditReport.xlsx looks like. A new sheet was added with the date that the command `/usr/local/linkbynet/script/Audit_Reseau/audit-reseau.pl > /usr/local/linkbynet/script/Audit_Reseau/CR` was run.

A	B	C	D	E	Formula Bar	F	G
1	Instructions						
2	1 Clients' machines	Use the following format for backups:	Backup_XXX_YYYYMMDD(.extension if any)				
3	2 LBN-RIS-WIKI-01	Do NOT bring changes to the following directory and the files inside:	/usr/local/linkbynet/scripts/Audit_Reseau/				
4	3 LBN-RIS-WIKI-01	Do NOT bring changes to the following line in the crontab:	#send mail for AUDIT RSX				
5			30 5 * * 1 /usr/local/linkbynet/scripts/Audit_Reseau/audit-				
6			reseau.pl > /usr/local/linkbynet/scripts/Audit_Reseau/CR				
7							
8							
9							
10							
11	Useful links						
12	Languages		Links				
13	Français	<a href="https://support.office.com/fr-fr/article/formation-excel-pour-windows-9bc05390-e94c-46af-a5b3-d7c22f6990bb">https://support.office.com/fr-fr/article/formation-excel-pour-windows-9bc05390-e94c-46af-a5b3-d7c22f6990bb</a>					
14	English	<a href="https://support.office.com/en-gb/article/excel-for-windows-training-9bc05390-e94c-46af-a5b3-d7c22f6990bb?ui=en-US&amp;rs=en-GB&amp;ad=GB">https://support.office.com/en-gb/article/excel-for-windows-training-9bc05390-e94c-46af-a5b3-d7c22f6990bb?ui=en-US&amp;rs=en-GB&amp;ad=GB</a>					
15							
16							
17							
18							
19							
20							
21							
22							

Instructions

Example(2020-11-12)

2020-12-08

Figure 14: AuditReport.xlsx

#### 4.2.1 Interesting Sheet

Figures 15 and 16 show that the script is doing the requested tasks. Reaching here filters will be useful in excel.

	Name of Machines	Today's Date	Last Backup Date	Longer Than 2 weeks
1				
2	ARISTA-SW-AGILE2-TC1-B13_B14-2-20201208.cfg	2020-12-08	2020-12-08	No
3	ARISTA-SW-CLIENT-IE2-C6-2-20201208.cfg	2020-12-08	2020-12-08	No
4	ARISTA-SW-CLIENT-PA6-A05-2-20201208.cfg	2020-12-08	2020-12-08	No
5	ARISTA-SW-LBN-AGILE3-MTL4-A316-2-20201208.cfg	2020-12-08	2020-12-08	No
6	ARISTA-SW-LBN-AGILE3-MTL4-A317-2-20201208.cfg	2020-12-08	2020-12-08	No
7	ARISTA-SW-LBN-CSP-PA2-B7-B8-2-20201208.cfg	2020-12-08	2020-12-08	No
8	ARISTA-SW-LBN-CSP-TC1-B13-B14-2-20201208.cfg	2020-12-08	2020-12-08	No
9	ARISTA-SW-LBN-IE2-A6-A7-2-20201208.cfg	2020-12-08	2020-12-08	No
10	ARISTA-SW-LBN-IE2-B07_B08-2-20201208.cfg	2020-12-08	2020-12-08	No
11	ARISTA-SW-LBN-IE2-D2-2-20201208.cfg	2020-12-08	2020-12-08	No
12	ARISTA-SW-LBN-LNA-CORE-2-20201208.cfg	2020-12-08	2020-12-08	No
13	ARISTA-SW-LBN-TC1-B15-2-20201208.cfg	2020-12-08	2020-12-08	No
14	ARISTA-SW-LBN-VALLEY-CORE-02-20201208.cfg	2020-12-08	2020-12-08	No
15	ARISTA-SWCORE-LBN-CNX-A316,A317-2-20201208.cfg	2020-12-08	2020-12-08	No
16	ARISTA-SWCORE-LBN-FR6-B3B4-02-20201208.cfg	2020-12-08	2020-12-08	No
17	ARISTA-SWCORE-LBN-IE1-A1_A2-2-20201208.vlan-tg	2020-12-08	2020-12-08	No
18	ARISTA-SWCORE-LBN-IE1-A1_A2-1-20201208.vlan-tg	2020-12-08	2020-12-08	No
19	ARISTA-SWCORE-LBN-IE1-A1_A2-2-20201208.vlan-tg	2020-12-08	2020-12-08	No
20	ARISTA-SWCORE-LBN-IE2-C2_C3-2-20201208.cfg	2020-12-08	2020-12-08	No
21	ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201208.vlan-tg	2020-12-08	2020-12-08	No
22	ARISTA-SWCORE-LBN-TC1-A1.A3-1-20201208.vlan-tg	2020-12-08	2020-12-08	No
23	ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201208.vlan-tg	2020-12-08	2020-12-08	No
24	ARISTA-SWCORE-LBN-TC2-A9-2-20201208.cfg	2020-12-08	2020-12-08	No
25	ARISTA-SWEXT-LBN-TC1-A1_A3-2-20201208.vlan-tg	2020-12-08	2020-12-08	No
26	ARISTA-SWEXT-LBN-TC1-A1_A3-1-20201208.vlan-tg	2020-12-08	2020-12-08	No

Figure 15: Interesting sheet (part I)

	A	B	C	D
119	backup_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com_01_Dec_2020_22_00.tgz	2020-12-08	Format Error	Format Error
120	backup_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com_15_Nov_2020_22_00.tgz	2020-12-08	Format Error	Format Error
121	backup_uxdefk-ckplog2p.rs.sdxcorp.net_2020_11_15_05_05.tgz	2020-12-08	Format Error	Format Error
122	backup_uxdefk-ckplog2p.rs.sdxcorp.net_2020_12_01_05_05.tgz	2020-12-08	Format Error	Format Error
123	BIGIP-LVMH-1_20201206.ucs	2020-12-08	2020-12-06	No
124	BIGIP-LVMH-2_20201206.ucs	2020-12-08	2020-12-06	No
125	CSP-LB-01_20201206.ucs	2020-12-08	2020-12-06	No
126	CSP-LB-02_20201206.ucs	2020-12-08	2020-12-06	No
127	NISALBV01_2020_11_11.ucs	2020-12-08	Format Error	Format Error
128	NISALBV01_2020_11_11.ucs	2020-12-08	Format Error	Format Error
129	NISALBV02_20201122.ucs	2020-12-08	2020-11-22	Yes
130	NISSAN-TC-BIGIP-GTM_2020_11_08.ucs	2020-12-08	Format Error	Format Error
131	NISSAN-TC-BIGIP-GTM_2020_11_08.ucs	2020-12-08	Format Error	Format Error
132	NISSAN-TC-BIGIP-LTM-1_20201206.ucs	2020-12-08	2020-12-06	No
133	NISSAN-TC-BIGIP-LTM-2_20201206.ucs	2020-12-08	2020-12-06	No
134	UXFRLB-F5HOST2P_20201206.ucs	2020-12-08	2020-12-06	No
135	UXFRLB-VF5CTX2P_20201206.ucs	2020-12-08	2020-12-06	No
136	WGUSDC-GEOCLU1P_20201206.ucs	2020-12-08	2020-12-06	No
137	bigip-mich-azure0_2020_12_06.ucs	2020-12-08	Format Error	Format Error
138	bigip-mich-azure1_2020_12_06.ucs	2020-12-08	Format Error	Format Error
139	bigip-rexel-ie-1_20201206.ucs	2020-12-08	2020-12-06	No
140	bigip-rexel-tc-1_2020_12_06.ucs	2020-12-08	Format Error	Format Error
141	bigip-rexel-tc-1_2020_12_06.ucs	2020-12-08	Format Error	Format Error
142	lb-bigip-pcis-1_20201206.ucs	2020-12-08	2020-12-06	No
143	lb-bigip-pcis-2_20201206.ucs	2020-12-08	2020-12-06	No
144	lbl-lbnpriv-pa02-01_2020_11_13.ucs	2020-12-08	Format Error	Format Error

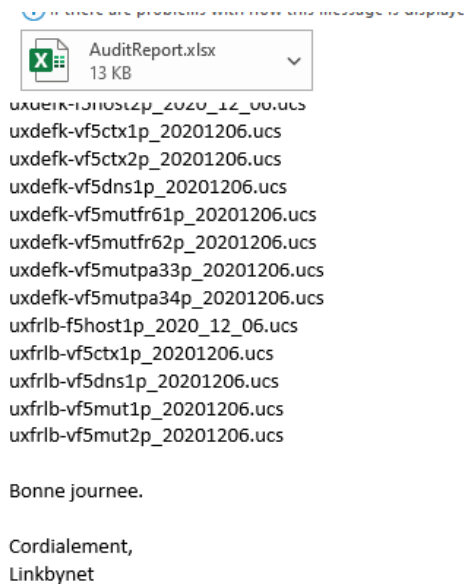
Figure 16: Interesting sheet (part II)

### 4.3 Error Testing

Figure 17 below show what will be shown if the script “Highlight.py” fails in some way. An error message will appear in the mail itself.

Unfortunately, Microsoft outlook shows the output below (Figure 17) while the real output should be as displayed in Figure 18(e.i. at the middle of the display container). Maybe it will be there in the future updates.

An improvement could be that no attachment will be sent if there is an error.



## ERROR in Highlight.py

Figure 17: Error Display in MS Outlook



Figure 18: Error Display in Google Chrome <https://www.w3schools.com/>

## Chapter 5: Improvements

- No attachment will be sent if there are any errors in “Highlight.py”.
- Perform the backups that are not being done (verify route, verify crontab, verify destination IP, ...) with another script, and send a report.

## Chapter 6: Appendix

### 6.1 Annex 1: audit-reseau.pl (Before Highlight.py)

```
#!/usr/bin/perl -w
use DBI;

#Recuperations de la liste des switchs ou les backup sont en échec

$dbh = DBI->connect('dbi:mysql:netmon','netmon','7zBTtvXEy1')
#or die "Connection Error: $DBI::errstr\n";
#
$sql = "select host_name from backup where (type='HP Procurve' or type like
'Nortel%') and status='Echec'";

$sth = $dbh->prepare($sql);
#
$sth->execute
#
#or die "SQL Error: $DBI::errstr\n";
#

print "Bonjour,<br>\n";
print "<h3 align=center>CR Audit </h3>";
print "<br>";

print "<b> Backup des SWITCH </b><br>";
print "<br>\n";

$path = "/home/backups/switch_bkp";
chdir($path) or die "Cant chdir to $path $!";

my @files_hp = glob("*");

my %files_hp;

foreach my $file_hp (sort @files_hp) {
my $file_name_hp = substr($file_hp,0,-15);
$files_hp{$file_name_hp}=1;
}

foreach (sort keys %files_hp) {
no warnings qw(uninitialized);
my @files_latest_hp = glob("$_*");

print "$files_latest_hp[$#files_latest_hp]<br>\n";
}

#
#if ($sth->rows ==0)
#{
#
# print "Ras<br>\n";
#
#}
#else
#{
# while (@row = $sth->fetchrow_array)
# {
# print "@row<br>\n";
# }
#
#}
```

```

#}
#

#Backup des Checkpoint, BigIP, Radware et ISA, on recuperer le dernier fichier du
chaque repertoire de Backup
#Backup des firewall checkpoint.
print "<br>";
print "<b>Backup CKP</b><br>";
print "<br>";

$path = "/home/backups/checkpoint_bkp";
chdir($path) or die "Cant chdir to $path $!";

my @files_ckp = glob("*ackup_*");

my %files_ckp;

foreach my $file_ckp (sort @files_ckp) {
my $file_name_ckp = substr($file_ckp,0,-13);
$files_ckp{$file_name_ckp}=1;
}

foreach (sort keys %files_ckp) {
no warnings qw(uninitialized);
my @files_latest_ckp = glob("$*_");

print "$files_latest_ckp[$#files_latest_ckp]<br>\n";
}

#Backup des BIGIP
print "<br>";
print "<b>Backup BIGIP</b><br>";
print "<br>";

$path = "/home/backups/bigip_bkp";
chdir($path) or die "Cant chdir to $path $!";

my @files_bigip = glob("*ucs*");

my %files_bigip;

foreach my $file_bigip (sort @files_bigip) {
my $file_name_bigip = substr($file_bigip,0,-12);
$files_bigip{$file_name_bigip}=1;
}

foreach (sort keys %files_bigip) {
no warnings qw(uninitialized);
my @files_latest_bigip = glob("$*_");
print "$files_latest_bigip[$#files_latest_bigip]<br>\n";
}

print "<br>";
print "Bonne journee.<br>";
print "<br>";
print "Cordialement,<br>";
print "Linkbynet <br>";

#On execute le script sendmail.sh pour l'envoi mail.
system("/bin/bash /usr/local/linkbynet/scripts/Audit_Reseau/sendmail.sh");

```

## 6.2 Annex 2: CR (Before Highlight.py)

Bonjour,<br>

<h3 align=center>CR Audit </h3><br><b> Backup des SWITCH </b><br><br>

ARISTA-SW-AGILE2-TC1-B13\_B14-2-20201115.cfg<br>

ARISTA-SW-CLIENT-IE2-C6-2-20201115.cfg<br>

ARISTA-SW-CLIENT-PA6-A05-2-20201115.cfg<br>

ARISTA-SW-LBN-AGILE3-MTL4-A316-2-20201115.cfg<br>

ARISTA-SW-LBN-AGILE3-MTL4-A317-2-20201115.cfg<br>

ARISTA-SW-LBN-CSP-PA2-B7-B8-2-20201115.cfg<br>

ARISTA-SW-LBN-CSP-TC1-B13-B14-2-20201115.cfg<br>

ARISTA-SW-LBN-IE2-A6-A7-2-20201115.cfg<br>

ARISTA-SW-LBN-IE2-B07\_B08-2-20201115.cfg<br>

ARISTA-SW-LBN-IE2-D2-2-20201115.cfg<br>

ARISTA-SW-LBN-TC1-B15-2-20201115.cfg<br>

ARISTA-SW-LBN-VALLEY-CORE-02-20201115.cfg<br>

ARISTA-SWCORE-LBN-CNX-A316.A317-2-20201115.cfg<br>

ARISTA-SWCORE-LBN-FR6-B3B4-02-20201115.cfg<br>

ARISTA-SWCORE-LBN-IE1-A1\_A2-2-20201115.vlan-tg<br>

ARISTA-SWCORE-LBN-IE1-A1\_A2-1-20201115.vlan-tg<br>

ARISTA-SWCORE-LBN-IE1-A1\_A2-2-20201115.vlan-tg<br>

ARISTA-SWCORE-LBN-IE2-C2\_C3-2-20201115.cfg<br>

ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201115.vlan-tg<br>

ARISTA-SWCORE-LBN-TC1-A1.A3-1-20201115.vlan-tg<br>

ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201115.vlan-tg<br>

ARISTA-SWCORE-LBN-TC2-A9-2-20201115.cfg<br>

ARISTA-SWEXT-LBN-TC1-A1\_A3-2-20201115.vlan-tg<br>

ARISTA-SWEXT-LBN-TC1-A1\_A3-1-20201115.vlan-tg<br>

ARISTA-SWEXT-LBN-TC1-A1\_A3-2-20201115.vlan-tg<br>

ARISTA-UXDELB-SWCOREFR6-2P-20201115.cfg<br>

ARISTA-UXDELB-SWTORFR6A1-2P-20201115.cfg<br>

ARISTA-UXDELB-SWTORFR6A2-2P-20201115.cfg<br>

ARISTA-UXDELB-SWTORFR6B1-2P-20201115.cfg<br>

ARISTA-UXDELB-SWWAN-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWCOREPA3-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3B4-1P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3B5-1P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3C3-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3C4-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3E1-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3E2-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3E3-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3E4-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3F1-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3F2-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3F3-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3F4-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3F5-1P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3F6-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3F7-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3F8-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3G6-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWTORPA3G7-2P-20201115.cfg<br>

ARISTA-UXFRLB-SWWANPA3-2P-20201115.cfg<br>

FL-SW-CORE-01-NORTEL-config-20201115.cfg<br>

FL-SW-CORE-02-NORTEL-config-20201115.cfg<br>

SW-PSG-TC-1-20201115<br>

SW-AGILE2-TC-B4-01-20201115<br>

SW-CHAP-06-20201115<br>

SW-EMASTER-TC-A7-01-20201115<br>

SW-EMASTER-TC-A7-01-20201115<br>

SW-ILO-AGILE-IE-1-20201115<br>

SW-INSTALL-TC2-B1-1-20201115<br>



SW-LBN-AGILE-5-20201115<br>  
 SW-LBN-CSP-PA3-B05-20201115<br>  
 SW-LBN-CSP-TC1-A15-20201115<br>  
 SW-LBN-IE1-ADM-A04-20201115<br>  
 SW-LBN-RTRCLIENT-TC1-A8-20201115<br>  
 SW-LBN-VALLEY-DMZ-03-20201114<br>  
 SW-LBN-VALLEY-DMZ-03-20201114<br>  
 SW-LBN-VALLEY-102-TEL-20201115<br>  
 SW-NISSAN-TC-2-20201115<br>  
 SW-PCIS-STACK-20201115<br>  
 SW-PSG-TC-1-20201115<br>  
 SWITCH-ADMIN-TC-A5-01-20201115<br>  
 SWITCH-ADMIN-TC-A5-01-20201115<br>  
 SWITCH-CLIENT-TC-B1-01-20201114<br>  
 SWITCH-CLIENT-IE2-ILO-1-20201115<br>  
 SWITCH-CLIENT-MUT-IE1-C05-20201115<br>  
 SWITCH-CLIENT-TC-B1-01-20201114<br>  
 SWITCH-CNCC-B4-03-20201114<br>  
 SWITCH-IDEFIX-1-20201115<br>  
 SWITCH-ILO-TC-AGILE-B4-20201115<br>  
 SWITCH-LBN-AGILE-V-1-20201115<br>  
 SWITCH-LBN-ADMIN-TC2-B04-20201115<br>  
 SWITCH-LBN-AGILE-V-1-20201115<br>  
 SWITCH-LBN-ILO-MICH-2-20201115<br>  
 SWITCH-PDU-IE2-C-20201115<br>  
 SWITCH-SX0-PA3-C4-ILO-20201115<br>  
 SWITCH-TC-PDU-02-20201115<br>  
 sw-lbn-veeam-TC-01-20201115<br>  
 swinstall-lbn-valley-A5-20201115<br>  
 switch-tc-ilo-b14-01-20201114<br>  
 <br><b>Backup CKP</b><br><br>Backup\_AUCHAN-DPC-OVH-CKP-SMS\_2020\_11\_15.tgz<br>  
 Backup\_ERM-CKP-SMS-01.euromaster.lbn.pa6.aub.linkbynet.com\_20201115.tgz<br>  
 Backup\_SMC-DASSAULT\_20201109.tgz<br>  
 Backup\_SMC-PCIS-IE\_20201109.tgz<br>  
 Backup\_SMC-PCIS-TC\_20201115.tgz<br>  
 Backup\_SMS-GREENYELLOW\_20201115.tgz<br>  
 Backup\_SMS-LAPOSTE-NEW\_20201115.tgz<br>  
 Backup\_SMS-LVMH\_1\_20201109.tgz<br>  
 Backup\_SMS-NISSAN-IE\_20201115.tgz<br>  
 Backup\_SMS-NISSAN-TC\_20201115.tgz<br>  
 Backup\_SMS-PANORANET\_2020\_11\_11.tgz<br>  
 Backup\_SMS-PANORANET\_2020\_11\_11.tgz<br>  
 Backup\_SMS-POLIRIS-IE-1\_20201109.tgz<br>  
 Backup\_SMS-REXEL-IE\_1\_20201115.tgz<br>  
 Backup\_SMS-REXEL-TC\_20201115.tgz<br>  
 Backup\_SMS-SUEZ\_20201115.tgz<br>  
 Backup\_SMS-UXFRLB-CKPLOG1P\_20201115.tgz<br>  
 Backup\_SMSAUCHANAZU\_2020\_11\_11.tgz<br>  
 Backup\_SMSAUCHANAZU\_2020\_11\_11.tgz<br>  
 Backup\_TL-SMS-01\_20201115.tgz<br>  
 Backup\_UXFRLB-CKPSMS1P.rs.sdxcorp.net\_20201109.tgz<br>  
 Backup\_VPN-MUT-SMC-NEW-1\_20201115.tgz<br>  
 backup\_SMC-PCIS-EVENTS.smc-pcis-  
 events.lbn.ie1.std.linkbynet.com\_01\_Nov\_2020\_22\_00.tgz<br>  
 backup\_SMC-PCIS-EVENTS.smc-pcis-  
 events.lbn.ie1.std.linkbynet.com\_15\_Nov\_2020\_22\_00.tgz<br>  
 backup\_SMC-PCIS-EVENTS.smc-pcis-  
 events.lbn.ie1.std.linkbynet.com\_15\_Oct\_2020\_22\_00.tgz<br>  
 backup\_UXFRLB-CKPSMS1P.rs.sdxcorp.net\_2020\_10\_15\_03\_41.tgz<br>  
 backup\_UXFRLB-CKPSMS1P.rs.sdxcorp.net\_2020\_11\_15\_03\_41.tgz<br>  
 backup\_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com\_01\_Nov\_2020\_22\_00.tgz<br>  
 backup\_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com\_15\_Nov\_2020\_22\_00.tgz<br>

backup\_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com\_15\_Oct\_2020\_22\_00.tgz<br>  
backup\_uxdefk-ckplog2p.rs.sdxcorp.net\_2020\_10\_15\_05\_05.tgz<br>  
backup\_uxdefk-ckplog2p.rs.sdxcorp.net\_2020\_11\_15\_05\_05.tgz<br>  
<br><b>Backup BIGIP</b><br><br>BIGIP-LVMH-1\_20201115.ucs<br>  
BIGIP-LVMH-2\_20201115.ucs<br>  
CSP-LB-01\_20201115.ucs<br>  
CSP-LB-02\_20201115.ucs<br>  
NISALBV01\_2020\_11\_11.ucs<br>  
NISALBV01\_2020\_11\_11.ucs<br>  
NISALBV02\_20201115.ucs<br>  
NISSAN-TC-BIGIP-GTM\_2020\_11\_08.ucs<br>  
NISSAN-TC-BIGIP-GTM\_2020\_11\_08.ucs<br>  
NISSAN-TC-BIGIP-LTM-1\_20201115.ucs<br>  
NISSAN-TC-BIGIP-LTM-2\_20201115.ucs<br>  
UXFRLB-F5HOST2P\_20201115.ucs<br>  
UXFRLB-VF5CTX2P\_20201115.ucs<br>  
WGUSDC-GEOCLU1P\_20201115.ucs<br>  
bigip-mich-azure0\_2020\_11\_15.ucs<br>  
bigip-mich-azure1\_2020\_11\_15.ucs<br>  
bigip-rexel-ie-1\_20201115.ucs<br>  
bigip-rexel-tc-1\_2020\_11\_11.ucs<br>  
bigip-rexel-tc-1\_2020\_11\_11.ucs<br>  
lb-bigip-pcis-1\_20201115.ucs<br>  
lb-bigip-pcis-2\_20201115.ucs<br>  
lbl-lbnpriv-pa02-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa02-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa06-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa06-01\_2020\_11\_13.ucs<br>  
nissan-ie-bigip-gtm-1\_20201115.ucs<br>  
nissan-ie-bigip-ltm-1\_20201115.ucs<br>  
nissan-ie-bigip-ltm-2\_20201115.ucs<br>  
uxdefk-f5host1p\_2020\_11\_11.ucs<br>  
uxdefk-f5host1p\_2020\_11\_11.ucs<br>  
uxdefk-f5host2p\_2020\_11\_15.ucs<br>  
uxdefk-vf5ctx1p\_20201115.ucs<br>  
uxdefk-vf5ctx2p\_20201115.ucs<br>  
uxdefk-vf5dns1p\_20201115.ucs<br>  
uxdefk-vf5mutfr61p\_20201115.ucs<br>  
uxdefk-vf5mutfr62p\_20201115.ucs<br>  
uxdefk-vf5mutpa33p\_20201115.ucs<br>  
uxdefk-vf5mutpa34p\_20201115.ucs<br>  
uxfrlb-f5host1p\_2020\_11\_15.ucs<br>  
uxfrlb-vf5ctx1p\_20201115.ucs<br>  
uxfrlb-vf5dns1p\_20201115.ucs<br>  
uxfrlb-vf5mut1p\_20201115.ucs<br>  
uxfrlb-vf5mut2p\_20201115.ucs<br>  
<br>Bonne journee.<br><br>Cordialement,<br>Linkbynet <br>

### 6.3 Annex 3: Highlight.py (Final)

```
##### importing libraries #####
import os
import shutil
import pathlib
import datetime
import pandas as pd # pip install pandas
# pip install openpyxl xlswriter xlrd
from openpyxl import Workbook, load_workbook, styles

##### writing the methods/functions #####
def writeToExcel(nameOfMachines, today, lastBackUp, status,
sheetName=str(datetime.datetime.date(datetime.datetime.now()))):
    df = pd.DataFrame({
        # header = "Name of Machines", records = nameOfMachines(from list)
        "Name of Machines": nameOfMachines,
        # header = "Today's Date", records = today(from list)
        "Today's Date": today,
        # header = "Last Backup Date", records = lastBackUp(from list)
        "Last Backup Date": lastBackUp,
        # header = "Longer Than 2 weeks", records = status(from list)
        "Longer Than 2 weeks": status,
    })
    with pd.ExcelWriter(path + destFile, engine="openpyxl", mode="a") as writer:
        # writer.sheets['Summary'].column_dimensions['A'].width = 15 #try to set width
to all columns
        df.style.apply(highlight_diff, axis=None).to_excel(writer,
sheet_name=sheetName, index=False) # filling the excel sheet

def highlight_diff(x): # will read column "Longer Than 2 weeks" in the excel,
highlight all rows that != "No"(e.i.Yes and Format Error)
    c1 = "background-color: red"
    c2 = ""
    m = x["Longer Than 2 weeks"] != "No"
    df1 = pd.DataFrame(c2, index=x.index, columns=x.columns)
    df1.loc[m, :] = c1
    return df1

def getBackup(myString):
    nameOfMachinesList.append(myString)
    todayTime = datetime.datetime.now() # get today's date and time
    todayDateList.append(datetime.datetime.date(todayTime)) # add the date only to
the list
    todayMinustwoWeeks = datetime.datetime.date(todayTime) -
datetime.timedelta(weeks=2) # remove 2 weeks from today's date
    lastBackUpDate = ""
    longerThan = ""
    try:
        lastBackUpDate = datetime.datetime.strptime(((os.path.splitext(myString)[0])[-
8:]), "%Y%m%d").date() # retrieve last 8 characters and convert them to date
        if todayMinustwoWeeks < lastBackUpDate: # if not longer than 2 weeks
            longerThan = "No"
        else:
            longerThan = "Yes"
    except:
        lastBackUpDate = "Format Error"
        longerThan = "Format Error"
    longerThan2weeks.append(longerThan) # add the resulted string to the list
```

```

# add the resulted string to the list
lastBackUpDateList.append(lastBackUpDate)

##### main task running #####
# start try except
try:
    # vars declaration/and initialisation
    nameOfMachinesList = []
    lastBackUpDateList = []
    todayDateList = []
    longerThan2weeks = []
    path = "/usr/local/linkbynet/scripts/Audit_Reseau/"
    sourceFile = "AuditReport.xlsx.bak"
    destFile = "AuditReport.xlsx"
    htmlFile = "CR"

    shutil.copy(os.path.join(path, sourceFile), os.path.join(path, destFile)) #
    overwrite the old excel file to new one(keeping instructions and example)
    file1 = open(path + htmlFile, "r") # opens the file in read mode
    Lines = file1.readlines() # read all lines in file1

    # remove first 2 lines and last line
    del Lines[0]
    del Lines[0]
    del Lines[-1]

    # start for loop
    for line in Lines:
        # Strips the newline character
        # remove <br><b>Backup CKP</b><br><br>
        # remove <br><b>Backup BIGIP</b><br><br>
        # remove all remaining <br>
        mystr = (line.strip()
                .replace("<br><b>Backup CKP</b><br><br>", "")
                .replace("<br><b>Backup BIGIP</b><br><br>", "")
                .replace("<br>", "")
                .strip())
        getBackup(mystr) # call method/function
    # end for loop
    writeToExcel(nameOfMachinesList, todayDateList, lastBackUpDateList,
longerThan2weeks) # call method/function
except Exception as e:
    print('<br><div
style="position:absolute;width:330px;height:50px;top:50%;left:50%;transform:translate(
-50%, -50%);"><h1 style="color:red;font-weight:bold;">ERROR in
Highlight.py</h1></div><br><br>')
# end try except

```

#### 6.4 Annex 4: CR (Remove first 2 lines and last line)

ARISTA-SW-AGILE2-TC1-B13\_B14-2-20201115.cfg<br>  
ARISTA-SW-CLIENT-IE2-C6-2-20201115.cfg<br>  
ARISTA-SW-CLIENT-PA6-A05-2-20201115.cfg<br>  
ARISTA-SW-LBN-AGILE3-MTL4-A316-2-20201115.cfg<br>  
ARISTA-SW-LBN-AGILE3-MTL4-A317-2-20201115.cfg<br>  
ARISTA-SW-LBN-CSP-PA2-B7-B8-2-20201115.cfg<br>  
ARISTA-SW-LBN-CSP-TC1-B13-B14-2-20201115.cfg<br>  
ARISTA-SW-LBN-IE2-A6-A7-2-20201115.cfg<br>  
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ARISTA-SW-LBN-IE2-D2-2-20201115.cfg<br>  
ARISTA-SW-LBN-TC1-B15-2-20201115.cfg<br>  
ARISTA-SW-LBN-VALLEY-CORE-02-20201115.cfg<br>  
ARISTA-SWCORE-LBN-CNX-A316.A317-2-20201115.cfg<br>  
ARISTA-SWCORE-LBN-FR6-B3B4-02-20201115.cfg<br>  
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ARISTA-SWCORE-LBN-IE1-A1\_A2-2-20201115.vlan-tg<br>  
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ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201115.vlan-tg<br>  
ARISTA-SWCORE-LBN-TC2-A9-2-20201115.cfg<br>  
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ARISTA-SWEXT-LBN-TC1-A1\_A3-1-20201115.vlan-tg<br>  
ARISTA-SWEXT-LBN-TC1-A1\_A3-2-20201115.vlan-tg<br>  
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ARISTA-UXDELB-SWTORFR6A2-2P-20201115.cfg<br>  
ARISTA-UXDELB-SWTORFR6B1-2P-20201115.cfg<br>  
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ARISTA-UXFRLB-SWTORPA3F2-2P-20201115.cfg<br>  
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ARISTA-UXFRLB-SWTORPA3F6-2P-20201115.cfg<br>  
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ARISTA-UXFRLB-SWTORPA3G6-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3G7-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWWANPA3-2P-20201115.cfg<br>  
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FL-SW-CORE-02-NORTEL-config-20201115.cfg<br>  
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SW-CHAP-06-20201115<br>  
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 SW-LBN-VALLEY-DMZ-03-20201114<br>  
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 SW-PCIS-STACK-20201115<br>  
 SW-PSG-TC-1-20201115<br>  
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 SWITCH-ADMIN-TC-A5-01-20201115<br>  
 SWITCH-CLIENT-TC-B1-01-20201114<br>  
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 SWITCH-CLIENT-MUT-IE1-C05-20201115<br>  
 SWITCH-CLIENT-TC-B1-01-20201114<br>  
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 SWITCH-LBN-AGILE-V-1-20201115<br>  
 SWITCH-LBN-ADMIN-TC2-B04-20201115<br>  
 SWITCH-LBN-AGILE-V-1-20201115<br>  
 SWITCH-LBN-ILO-MICH-2-20201115<br>  
 SWITCH-PDU-IE2-C-20201115<br>  
 SWITCH-SX0-PA3-C4-ILO-20201115<br>  
 SWITCH-TC-PDU-02-20201115<br>  
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 switch-tc-ilo-b14-01-20201114<br>  
 <br><b>Backup CKP</b><br><br>Backup\_AUCHAN-DPC-OVH-CKP-SMS\_2020\_11\_15.tgz<br>  
 Backup\_ERM-CKP-SMS-01.euromaster.lbn.pa6.aub.linkbynet.com\_20201115.tgz<br>  
 Backup\_SMC-DASSAULT\_20201109.tgz<br>  
 Backup\_SMC-PCIS-IE\_20201109.tgz<br>  
 Backup\_SMC-PCIS-TC\_20201115.tgz<br>  
 Backup\_SMS-GREENYELLOW\_20201115.tgz<br>  
 Backup\_SMS-LAPOSTE-NEW\_20201115.tgz<br>  
 Backup\_SMS-LVMH\_1\_20201109.tgz<br>  
 Backup\_SMS-NISSAN-IE\_20201115.tgz<br>  
 Backup\_SMS-NISSAN-TC\_20201115.tgz<br>  
 Backup\_SMS-PANORANET\_2020\_11\_11.tgz<br>  
 Backup\_SMS-PANORANET\_2020\_11\_11.tgz<br>  
 Backup\_SMS-POLIRIS-IE-1\_20201109.tgz<br>  
 Backup\_SMS-REXEL-IE\_1\_20201115.tgz<br>  
 Backup\_SMS-REXEL-TC\_20201115.tgz<br>  
 Backup\_SMS-SUEZ\_20201115.tgz<br>  
 Backup\_SMS-UXFRLB-CKPLOG1P\_20201115.tgz<br>  
 Backup\_SMSAUCHANAZU\_2020\_11\_11.tgz<br>  
 Backup\_SMSAUCHANAZU\_2020\_11\_11.tgz<br>  
 Backup\_TL-SMS-01\_20201115.tgz<br>  
 Backup\_UXFRLB-CKPSMS1P.rs.sdxcorp.net\_20201109.tgz<br>  
 Backup\_VPN-MUT-SMC-NEW-1\_20201115.tgz<br>  
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 events.lbn.ie1.std.linkbynet.com\_01\_Nov\_2020\_22\_00.tgz<br>  
 backup\_SMC-PCIS-EVENTS.smc-pcis-  
 events.lbn.ie1.std.linkbynet.com\_15\_Nov\_2020\_22\_00.tgz<br>  
 backup\_SMC-PCIS-EVENTS.smc-pcis-  
 events.lbn.ie1.std.linkbynet.com\_15\_Oct\_2020\_22\_00.tgz<br>  
 backup\_UXFRLB-CKPSMS1P.rs.sdxcorp.net\_2020\_10\_15\_03\_41.tgz<br>  
 backup\_UXFRLB-CKPSMS1P.rs.sdxcorp.net\_2020\_11\_15\_03\_41.tgz<br>  
 backup\_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com\_01\_Nov\_2020\_22\_00.tgz<br>  
 backup\_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com\_15\_Nov\_2020\_22\_00.tgz<br>  
 backup\_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com\_15\_Oct\_2020\_22\_00.tgz<br>  
 backup\_uxdefk-ckplog2p.rs.sdxcorp.net\_2020\_10\_15\_05\_05.tgz<br>

backup\_uxdefk-ckplog2p.rs.sdxcorp.net\_2020\_11\_15\_05\_05.tgz<br>  
<br><b>Backup BIGIP</b><br><br>BIGIP-LVMH-1\_20201115.ucs<br>  
BIGIP-LVMH-2\_20201115.ucs<br>  
CSP-LB-01\_20201115.ucs<br>  
CSP-LB-02\_20201115.ucs<br>  
NISALBV01\_2020\_11\_11.ucs<br>  
NISALBV01\_2020\_11\_11.ucs<br>  
NISALBV02\_20201115.ucs<br>  
NISSAN-TC-BIGIP-GTM\_2020\_11\_08.ucs<br>  
NISSAN-TC-BIGIP-GTM\_2020\_11\_08.ucs<br>  
NISSAN-TC-BIGIP-LTM-1\_20201115.ucs<br>  
NISSAN-TC-BIGIP-LTM-2\_20201115.ucs<br>  
UXFRLB-F5HOST2P\_20201115.ucs<br>  
UXFRLB-VF5CTX2P\_20201115.ucs<br>  
WGUSDC-GEOCLU1P\_20201115.ucs<br>  
bigip-mich-azure0\_2020\_11\_15.ucs<br>  
bigip-mich-azure1\_2020\_11\_15.ucs<br>  
bigip-rexel-ie-1\_20201115.ucs<br>  
bigip-rexel-tc-1\_2020\_11\_11.ucs<br>  
bigip-rexel-tc-1\_2020\_11\_11.ucs<br>  
lb-bigip-pcis-1\_20201115.ucs<br>  
lb-bigip-pcis-2\_20201115.ucs<br>  
lbl-lbnpriv-pa02-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa02-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa06-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa06-01\_2020\_11\_13.ucs<br>  
nissan-ie-bigip-gtm-1\_20201115.ucs<br>  
nissan-ie-bigip-ltm-1\_20201115.ucs<br>  
nissan-ie-bigip-ltm-2\_20201115.ucs<br>  
uxdefk-f5host1p\_2020\_11\_11.ucs<br>  
uxdefk-f5host1p\_2020\_11\_11.ucs<br>  
uxdefk-f5host2p\_2020\_11\_15.ucs<br>  
uxdefk-vf5ctx1p\_20201115.ucs<br>  
uxdefk-vf5ctx2p\_20201115.ucs<br>  
uxdefk-vf5dns1p\_20201115.ucs<br>  
uxdefk-vf5mutfr61p\_20201115.ucs<br>  
uxdefk-vf5mutfr62p\_20201115.ucs<br>  
uxdefk-vf5mutpa33p\_20201115.ucs<br>  
uxdefk-vf5mutpa34p\_20201115.ucs<br>  
uxfrlb-f5host1p\_2020\_11\_15.ucs<br>  
uxfrlb-vf5ctx1p\_20201115.ucs<br>  
uxfrlb-vf5dns1p\_20201115.ucs<br>  
uxfrlb-vf5mut1p\_20201115.ucs<br>  
uxfrlb-vf5mut2p\_20201115.ucs<br>

## 6.5 Annex 5: CR (Remove "<br><b>Backup CKP</b><br><br>")

ARISTA-SW-AGILE2-TC1-B13\_B14-2-20201115.cfg<br>  
ARISTA-SW-CLIENT-IE2-C6-2-20201115.cfg<br>  
ARISTA-SW-CLIENT-PA6-A05-2-20201115.cfg<br>  
ARISTA-SW-LBN-AGILE3-MTL4-A316-2-20201115.cfg<br>  
ARISTA-SW-LBN-AGILE3-MTL4-A317-2-20201115.cfg<br>  
ARISTA-SW-LBN-CSP-PA2-B7-B8-2-20201115.cfg<br>  
ARISTA-SW-LBN-CSP-TC1-B13-B14-2-20201115.cfg<br>  
ARISTA-SW-LBN-IE2-A6-A7-2-20201115.cfg<br>  
ARISTA-SW-LBN-IE2-B07\_B08-2-20201115.cfg<br>  
ARISTA-SW-LBN-IE2-D2-2-20201115.cfg<br>  
ARISTA-SW-LBN-TC1-B15-2-20201115.cfg<br>  
ARISTA-SW-LBN-VALLEY-CORE-02-20201115.cfg<br>  
ARISTA-SWCORE-LBN-CNX-A316.A317-2-20201115.cfg<br>  
ARISTA-SWCORE-LBN-FR6-B3B4-02-20201115.cfg<br>  
ARISTA-SWCORE-LBN-IE1-A1\_A2-2-20201115.vlan-tg<br>  
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ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201115.vlan-tg<br>  
ARISTA-SWCORE-LBN-TC2-A9-2-20201115.cfg<br>  
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ARISTA-SWEXT-LBN-TC1-A1\_A3-1-20201115.vlan-tg<br>  
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ARISTA-UXDELB-SWTORFR6A2-2P-20201115.cfg<br>  
ARISTA-UXDELB-SWTORFR6B1-2P-20201115.cfg<br>  
ARISTA-UXDELB-SWWAN-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWCOREPA3-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3B4-1P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3B5-1P-20201115.cfg<br>  
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ARISTA-UXFRLB-SWWANPA3-2P-20201115.cfg<br>  
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FL-SW-CORE-02-NORTEL-config-20201115.cfg<br>  
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SW-CHAP-06-20201115<br>  
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 SWITCH-CLIENT-TC-B1-01-20201114<br>  
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 Backup\_SMC-PCIS-IE\_20201109.tgz<br>  
 Backup\_SMC-PCIS-TC\_20201115.tgz<br>  
 Backup\_SMS-GREENYELLOW\_20201115.tgz<br>  
 Backup\_SMS-LAPOSTE-NEW\_20201115.tgz<br>  
 Backup\_SMS-LVMH\_1\_20201109.tgz<br>  
 Backup\_SMS-NISSAN-IE\_20201115.tgz<br>  
 Backup\_SMS-NISSAN-TC\_20201115.tgz<br>  
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 Backup\_SMS-PANORANET\_2020\_11\_11.tgz<br>  
 Backup\_SMS-POLIRIS-IE-1\_20201109.tgz<br>  
 Backup\_SMS-REXEL-IE\_1\_20201115.tgz<br>  
 Backup\_SMS-REXEL-TC\_20201115.tgz<br>  
 Backup\_SMS-SUEZ\_20201115.tgz<br>  
 Backup\_SMS-UXFRLB-CKPLOG1P\_20201115.tgz<br>  
 Backup\_SMSAUCHANAZU\_2020\_11\_11.tgz<br>  
 Backup\_SMSAUCHANAZU\_2020\_11\_11.tgz<br>  
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 events.lbn.ie1.std.linkbynet.com\_15\_Oct\_2020\_22\_00.tgz<br>  
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backup\_uxdefk-ckplog2p.rs.sdxcorp.net\_2020\_11\_15\_05\_05.tgz<br>  
<br><b>Backup BIGIP</b><br><br>BIGIP-LVMH-1\_20201115.ucs<br>  
BIGIP-LVMH-2\_20201115.ucs<br>  
CSP-LB-01\_20201115.ucs<br>  
CSP-LB-02\_20201115.ucs<br>  
NISALBV01\_2020\_11\_11.ucs<br>  
NISALBV01\_2020\_11\_11.ucs<br>  
NISALBV02\_20201115.ucs<br>  
NISSAN-TC-BIGIP-GTM\_2020\_11\_08.ucs<br>  
NISSAN-TC-BIGIP-GTM\_2020\_11\_08.ucs<br>  
NISSAN-TC-BIGIP-LTM-1\_20201115.ucs<br>  
NISSAN-TC-BIGIP-LTM-2\_20201115.ucs<br>  
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UXFRLB-VF5CTX2P\_20201115.ucs<br>  
WGUSDC-GEOCLU1P\_20201115.ucs<br>  
bigip-mich-azure0\_2020\_11\_15.ucs<br>  
bigip-mich-azure1\_2020\_11\_15.ucs<br>  
bigip-rexel-ie-1\_20201115.ucs<br>  
bigip-rexel-tc-1\_2020\_11\_11.ucs<br>  
bigip-rexel-tc-1\_2020\_11\_11.ucs<br>  
lb-bigip-pcis-1\_20201115.ucs<br>  
lb-bigip-pcis-2\_20201115.ucs<br>  
lbl-lbnpriv-pa02-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa02-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa06-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa06-01\_2020\_11\_13.ucs<br>  
nissan-ie-bigip-gtm-1\_20201115.ucs<br>  
nissan-ie-bigip-ltm-1\_20201115.ucs<br>  
nissan-ie-bigip-ltm-2\_20201115.ucs<br>  
uxdefk-f5host1p\_2020\_11\_11.ucs<br>  
uxdefk-f5host1p\_2020\_11\_11.ucs<br>  
uxdefk-f5host2p\_2020\_11\_15.ucs<br>  
uxdefk-vf5ctx1p\_20201115.ucs<br>  
uxdefk-vf5ctx2p\_20201115.ucs<br>  
uxdefk-vf5dns1p\_20201115.ucs<br>  
uxdefk-vf5mutfr61p\_20201115.ucs<br>  
uxdefk-vf5mutfr62p\_20201115.ucs<br>  
uxdefk-vf5mutpa33p\_20201115.ucs<br>  
uxdefk-vf5mutpa34p\_20201115.ucs<br>  
uxfrlb-f5host1p\_2020\_11\_15.ucs<br>  
uxfrlb-vf5ctx1p\_20201115.ucs<br>  
uxfrlb-vf5dns1p\_20201115.ucs<br>  
uxfrlb-vf5mut1p\_20201115.ucs<br>  
uxfrlb-vf5mut2p\_20201115.ucs<br>

## 6.6 Annex 6: CR (Remove "<br><b>Backup BIGIP</b><br><br>")

ARISTA-SW-AGILE2-TC1-B13\_B14-2-20201115.cfg<br>  
ARISTA-SW-CLIENT-IE2-C6-2-20201115.cfg<br>  
ARISTA-SW-CLIENT-PA6-A05-2-20201115.cfg<br>  
ARISTA-SW-LBN-AGILE3-MTL4-A316-2-20201115.cfg<br>  
ARISTA-SW-LBN-AGILE3-MTL4-A317-2-20201115.cfg<br>  
ARISTA-SW-LBN-CSP-PA2-B7-B8-2-20201115.cfg<br>  
ARISTA-SW-LBN-CSP-TC1-B13-B14-2-20201115.cfg<br>  
ARISTA-SW-LBN-IE2-A6-A7-2-20201115.cfg<br>  
ARISTA-SW-LBN-IE2-B07\_B08-2-20201115.cfg<br>  
ARISTA-SW-LBN-IE2-D2-2-20201115.cfg<br>  
ARISTA-SW-LBN-TC1-B15-2-20201115.cfg<br>  
ARISTA-SW-LBN-VALLEY-CORE-02-20201115.cfg<br>  
ARISTA-SWCORE-LBN-CNX-A316.A317-2-20201115.cfg<br>  
ARISTA-SWCORE-LBN-FR6-B3B4-02-20201115.cfg<br>  
ARISTA-SWCORE-LBN-IE1-A1\_A2-2-20201115.vlan-tg<br>  
ARISTA-SWCORE-LBN-IE1-A1\_A2-1-20201115.vlan-tg<br>  
ARISTA-SWCORE-LBN-IE1-A1\_A2-2-20201115.vlan-tg<br>  
ARISTA-SWCORE-LBN-IE2-C2\_C3-2-20201115.cfg<br>  
ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201115.vlan-tg<br>  
ARISTA-SWCORE-LBN-TC1-A1.A3-1-20201115.vlan-tg<br>  
ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201115.vlan-tg<br>  
ARISTA-SWCORE-LBN-TC2-A9-2-20201115.cfg<br>  
ARISTA-SWEXT-LBN-TC1-A1\_A3-2-20201115.vlan-tg<br>  
ARISTA-SWEXT-LBN-TC1-A1\_A3-1-20201115.vlan-tg<br>  
ARISTA-SWEXT-LBN-TC1-A1\_A3-2-20201115.vlan-tg<br>  
ARISTA-UXDELB-SWCOREFR6-2P-20201115.cfg<br>  
ARISTA-UXDELB-SWTORFR6A1-2P-20201115.cfg<br>  
ARISTA-UXDELB-SWTORFR6A2-2P-20201115.cfg<br>  
ARISTA-UXDELB-SWTORFR6B1-2P-20201115.cfg<br>  
ARISTA-UXDELB-SWWAN-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWCOREPA3-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3B4-1P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3B5-1P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3C3-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3C4-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3E1-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3E2-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3E3-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3E4-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3F1-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3F2-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3F3-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3F4-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3F5-1P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3F6-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3F7-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3F8-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3G6-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWTORPA3G7-2P-20201115.cfg<br>  
ARISTA-UXFRLB-SWWANPA3-2P-20201115.cfg<br>  
FL-SW-CORE-01-NORTEL-config-20201115.cfg<br>  
FL-SW-CORE-02-NORTEL-config-20201115.cfg<br>  
SW-PSG-TC-1-20201115<br>  
SW-AGILE2-TC-B4-01-20201115<br>  
SW-CHAP-06-20201115<br>  
SW-EMASTER-TC-A7-01-20201115<br>  
SW-EMASTER-TC-A7-01-20201115<br>  
SW-ILO-AGILE-IE-1-20201115<br>  
SW-INSTALL-TC2-B1-1-20201115<br>  
SW-LBN-AGILE-5-20201115<br>  
SW-LBN-CSP-PA3-B05-20201115<br>

SW-LBN-CSP-TC1-A15-20201115<br>  
 SW-LBN-IE1-ADM-A04-20201115<br>  
 SW-LBN-RTRCLIENT-TC1-A8-20201115<br>  
 SW-LBN-VALLEY-DMZ-03-20201114<br>  
 SW-LBN-VALLEY-DMZ-03-20201114<br>  
 SW-LBN-VALLEY-102-TEL-20201115<br>  
 SW-NISSAN-TC-2-20201115<br>  
 SW-PCIS-STACK-20201115<br>  
 SW-PSG-TC-1-20201115<br>  
 SWITCH-ADMIN-TC-A5-01-20201115<br>  
 SWITCH-ADMIN-TC-A5-01-20201115<br>  
 SWITCH-CLIENT-TC-B1-01-20201114<br>  
 SWITCH-CLIENT-IE2-ILO-1-20201115<br>  
 SWITCH-CLIENT-MUT-IE1-C05-20201115<br>  
 SWITCH-CLIENT-TC-B1-01-20201114<br>  
 SWITCH-CNCC-B4-03-20201114<br>  
 SWITCH-IDEFIX-1-20201115<br>  
 SWITCH-ILO-TC-AGILE-B4-20201115<br>  
 SWITCH-LBN-AGILE-V-1-20201115<br>  
 SWITCH-LBN-ADMIN-TC2-B04-20201115<br>  
 SWITCH-LBN-AGILE-V-1-20201115<br>  
 SWITCH-LBN-ILO-MICH-2-20201115<br>  
 SWITCH-PDU-IE2-C-20201115<br>  
 SWITCH-SX0-PA3-C4-ILO-20201115<br>  
 SWITCH-TC-PDU-02-20201115<br>  
 sw-lbn-veeam-TC-01-20201115<br>  
 swinstall-lbn-valley-A5-20201115<br>  
 switch-tc-ilo-b14-01-20201114<br>  
 Backup\_AUCHAN-DPC-OVH-CKP-SMS\_2020\_11\_15.tgz<br>  
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 Backup\_SMC-DASSAULT\_20201109.tgz<br>  
 Backup\_SMC-PCIS-IE\_20201109.tgz<br>  
 Backup\_SMC-PCIS-TC\_20201115.tgz<br>  
 Backup\_SMS-GREENYELLOW\_20201115.tgz<br>  
 Backup\_SMS-LAPOSTE-NEW\_20201115.tgz<br>  
 Backup\_SMS-LVMH\_1\_20201109.tgz<br>  
 Backup\_SMS-NISSAN-IE\_20201115.tgz<br>  
 Backup\_SMS-NISSAN-TC\_20201115.tgz<br>  
 Backup\_SMS-PANORANET\_2020\_11\_11.tgz<br>  
 Backup\_SMS-PANORANET\_2020\_11\_11.tgz<br>  
 Backup\_SMS-POLIRIS-IE-1\_20201109.tgz<br>  
 Backup\_SMS-REXEL-IE\_1\_20201115.tgz<br>  
 Backup\_SMS-REXEL-TC\_20201115.tgz<br>  
 Backup\_SMS-SUEZ\_20201115.tgz<br>  
 Backup\_SMS-UXFRLB-CKPLOG1P\_20201115.tgz<br>  
 Backup\_SMSAUCHANAZU\_2020\_11\_11.tgz<br>  
 Backup\_SMSAUCHANAZU\_2020\_11\_11.tgz<br>  
 Backup\_TL-SMS-01\_20201115.tgz<br>  
 Backup\_UXFRLB-CKPSMS1P.rs.sdxcorp.net\_20201109.tgz<br>  
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 backup\_SMC-PCIS-EVENTS.smc-pcis-  
 events.lbn.ie1.std.linkbynet.com\_15\_Nov\_2020\_22\_00.tgz<br>  
 backup\_SMC-PCIS-EVENTS.smc-pcis-  
 events.lbn.ie1.std.linkbynet.com\_15\_Oct\_2020\_22\_00.tgz<br>  
 backup\_UXFRLB-CKPSMS1P.rs.sdxcorp.net\_2020\_10\_15\_03\_41.tgz<br>  
 backup\_UXFRLB-CKPSMS1P.rs.sdxcorp.net\_2020\_11\_15\_03\_41.tgz<br>  
 backup\_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com\_01\_Nov\_2020\_22\_00.tgz<br>  
 backup\_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com\_15\_Nov\_2020\_22\_00.tgz<br>  
 backup\_smc-pcis-ie.smc-pcis-ie.lbn.ie1.std.linkbynet.com\_15\_Oct\_2020\_22\_00.tgz<br>  
 backup\_uxdefk-ckplog2p.rs.sdxcorp.net\_2020\_10\_15\_05\_05.tgz<br>

backup\_uxdefk-ckplog2p.rs.sdxcorp.net\_2020\_11\_15\_05\_05.tgz<br>  
BIGIP-LVMH-1\_20201115.ucs<br>  
BIGIP-LVMH-2\_20201115.ucs<br>  
CSP-LB-01\_20201115.ucs<br>  
CSP-LB-02\_20201115.ucs<br>  
NISALBV01\_2020\_11\_11.ucs<br>  
NISALBV01\_2020\_11\_11.ucs<br>  
NISALBV02\_20201115.ucs<br>  
NISSAN-TC-BIGIP-GTM\_2020\_11\_08.ucs<br>  
NISSAN-TC-BIGIP-GTM\_2020\_11\_08.ucs<br>  
NISSAN-TC-BIGIP-LTM-1\_20201115.ucs<br>  
NISSAN-TC-BIGIP-LTM-2\_20201115.ucs<br>  
UXFRLB-F5HOST2P\_20201115.ucs<br>  
UXFRLB-VF5CTX2P\_20201115.ucs<br>  
WGUSDC-GEOCLU1P\_20201115.ucs<br>  
bigip-mich-azure0\_2020\_11\_15.ucs<br>  
bigip-mich-azure1\_2020\_11\_15.ucs<br>  
bigip-rexel-ie-1\_20201115.ucs<br>  
bigip-rexel-tc-1\_2020\_11\_11.ucs<br>  
bigip-rexel-tc-1\_2020\_11\_11.ucs<br>  
lb-bigip-pcis-1\_20201115.ucs<br>  
lb-bigip-pcis-2\_20201115.ucs<br>  
lbl-lbnpriv-pa02-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa02-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa06-01\_2020\_11\_13.ucs<br>  
lbl-lbnpriv-pa06-01\_2020\_11\_13.ucs<br>  
nissan-ie-bigip-gtm-1\_20201115.ucs<br>  
nissan-ie-bigip-ltm-1\_20201115.ucs<br>  
nissan-ie-bigip-ltm-2\_20201115.ucs<br>  
uxdefk-f5host1p\_2020\_11\_11.ucs<br>  
uxdefk-f5host1p\_2020\_11\_11.ucs<br>  
uxdefk-f5host2p\_2020\_11\_15.ucs<br>  
uxdefk-vf5ctx1p\_20201115.ucs<br>  
uxdefk-vf5ctx2p\_20201115.ucs<br>  
uxdefk-vf5dns1p\_20201115.ucs<br>  
uxdefk-vf5mutfr61p\_20201115.ucs<br>  
uxdefk-vf5mutfr62p\_20201115.ucs<br>  
uxdefk-vf5mutpa33p\_20201115.ucs<br>  
uxdefk-vf5mutpa34p\_20201115.ucs<br>  
uxfrlb-f5host1p\_2020\_11\_15.ucs<br>  
uxfrlb-vf5ctx1p\_20201115.ucs<br>  
uxfrlb-vf5dns1p\_20201115.ucs<br>  
uxfrlb-vf5mut1p\_20201115.ucs<br>  
uxfrlb-vf5mut2p\_20201115.ucs<br>

## 6.7 Annex 7: CR (Remove all <br>)

ARISTA-SW-AGILE2-TC1-B13\_B14-2-20201115.cfg  
ARISTA-SW-CLIENT-IE2-C6-2-20201115.cfg  
ARISTA-SW-CLIENT-PA6-A05-2-20201115.cfg  
ARISTA-SW-LBN-AGILE3-MTL4-A316-2-20201115.cfg  
ARISTA-SW-LBN-AGILE3-MTL4-A317-2-20201115.cfg  
ARISTA-SW-LBN-CSP-PA2-B7-B8-2-20201115.cfg  
ARISTA-SW-LBN-CSP-TC1-B13-B14-2-20201115.cfg  
ARISTA-SW-LBN-IE2-A6-A7-2-20201115.cfg  
ARISTA-SW-LBN-IE2-B07\_B08-2-20201115.cfg  
ARISTA-SW-LBN-IE2-D2-2-20201115.cfg  
ARISTA-SW-LBN-TC1-B15-2-20201115.cfg  
ARISTA-SW-LBN-VALLEY-CORE-02-20201115.cfg  
ARISTA-SWCORE-LBN-CNX-A316.A317-2-20201115.cfg  
ARISTA-SWCORE-LBN-FR6-B3B4-02-20201115.cfg  
ARISTA-SWCORE-LBN-IE1-A1\_A2-2-20201115.vlan-tg  
ARISTA-SWCORE-LBN-IE1-A1\_A2-1-20201115.vlan-tg  
ARISTA-SWCORE-LBN-IE1-A1\_A2-2-20201115.vlan-tg  
ARISTA-SWCORE-LBN-IE2-C2\_C3-2-20201115.cfg  
ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201115.vlan-tg  
ARISTA-SWCORE-LBN-TC1-A1.A3-1-20201115.vlan-tg  
ARISTA-SWCORE-LBN-TC1-A1.A3-2-20201115.vlan-tg  
ARISTA-SWCORE-LBN-TC2-A9-2-20201115.cfg  
ARISTA-SWEXT-LBN-TC1-A1\_A3-2-20201115.vlan-tg  
ARISTA-SWEXT-LBN-TC1-A1\_A3-1-20201115.vlan-tg  
ARISTA-SWEXT-LBN-TC1-A1\_A3-2-20201115.vlan-tg  
ARISTA-UXDELB-SWCOREFR6-2P-20201115.cfg  
ARISTA-UXDELB-SWTORFR6A1-2P-20201115.cfg  
ARISTA-UXDELB-SWTORFR6A2-2P-20201115.cfg  
ARISTA-UXDELB-SWTORFR6B1-2P-20201115.cfg  
ARISTA-UXDELB-SWWAN-2P-20201115.cfg  
ARISTA-UXFRLB-SWCOREPA3-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3B4-1P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3B5-1P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3C3-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3C4-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3E1-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3E2-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3E3-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3E4-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3F1-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3F2-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3F3-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3F4-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3F5-1P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3F6-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3F7-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3F8-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3G6-2P-20201115.cfg  
ARISTA-UXFRLB-SWTORPA3G7-2P-20201115.cfg  
ARISTA-UXFRLB-SWWANPA3-2P-20201115.cfg  
FL-SW-CORE-01-NORTEL-config-20201115.cfg  
FL-SW-CORE-02-NORTEL-config-20201115.cfg  
SW-PSG-TC-1-20201115  
SW-AGILE2-TC-B4-01-20201115  
SW-CHAP-06-20201115  
SW-EMASTER-TC-A7-01-20201115  
SW-EMASTER-TC-A7-01-20201115  
SW-ILO-AGILE-IE-1-20201115  
SW-INSTALL-TC2-B1-1-20201115  
SW-LBN-AGILE-5-20201115  
SW-LBN-CSP-PA3-B05-20201115

SW-LBN-CSP-TC1-A15-20201115  
SW-LBN-IE1-ADM-A04-20201115  
SW-LBN-RTRCLIENT-TC1-A8-20201115  
SW-LBN-VALLEY-DMZ-03-20201114  
SW-LBN-VALLEY-DMZ-03-20201114  
SW-LBN-VALLEY-102-TEL-20201115  
SW-NISSAN-TC-2-20201115  
SW-PCIS-STACK-20201115  
SW-PSG-TC-1-20201115  
SWITCH-ADMIN-TC-A5-01-20201115  
SWITCH-ADMIN-TC-A5-01-20201115  
SWITCH-CLIENT-TC-B1-01-20201114  
SWITCH-CLIENT-IE2-ILO-1-20201115  
SWITCH-CLIENT-MUT-IE1-C05-20201115  
SWITCH-CLIENT-TC-B1-01-20201114  
SWITCH-CNCC-B4-03-20201114  
SWITCH-IDEFIX-1-20201115  
SWITCH-ILO-TC-AGILE-B4-20201115  
SWITCH-LBN-AGILE-V-1-20201115  
SWITCH-LBN-ADMIN-TC2-B04-20201115  
SWITCH-LBN-AGILE-V-1-20201115  
SWITCH-LBN-ILO-MICH-2-20201115  
SWITCH-PDU-IE2-C-20201115  
SWITCH-SX0-PA3-C4-ILO-20201115  
SWITCH-TC-PDU-02-20201115  
sw-lbn-veeam-TC-01-20201115  
swinstall-lbn-valley-A5-20201115  
switch-tc-ilo-b14-01-20201114  
Backup\_AUCHAN-DPC-OVH-CKP-SMS\_2020\_11\_15.tgz  
Backup\_ERM-CKP-SMS-01.euromaster.lbn.pa6.aub.linkbynet.com\_20201115.tgz  
Backup\_SMC-DASSAULT\_20201109.tgz  
Backup\_SMC-PCIS-IE\_20201109.tgz  
Backup\_SMC-PCIS-TC\_20201115.tgz  
Backup\_SMS-GREENYELLOW\_20201115.tgz  
Backup\_SMS-LAPOSTE-NEW\_20201115.tgz  
Backup\_SMS-LVMH\_1\_20201109.tgz  
Backup\_SMS-NISSAN-IE\_20201115.tgz  
Backup\_SMS-NISSAN-TC\_20201115.tgz  
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Backup\_SMS-PANORANET\_2020\_11\_11.tgz  
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Backup\_SMS-REXEL-IE\_1\_20201115.tgz  
Backup\_SMS-REXEL-TC\_20201115.tgz  
Backup\_SMS-SUEZ\_20201115.tgz  
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Backup\_SMSAUCHANAZU\_2020\_11\_11.tgz  
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backup\_SMC-PCIS-EVENTS.smc-pcis-events.lbn.ie1.std.linkbynet.com\_15\_Oct\_2020\_22\_00.tgz  
backup\_UXFRLB-CKPSMS1P.rs.sdxcorp.net\_2020\_10\_15\_03\_41.tgz  
backup\_UXFRLB-CKPSMS1P.rs.sdxcorp.net\_2020\_11\_15\_03\_41.tgz  
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backup\_uxdefk-ckplog2p.rs.sdxcorp.net\_2020\_10\_15\_05\_05.tgz  
backup\_uxdefk-ckplog2p.rs.sdxcorp.net\_2020\_11\_15\_05\_05.tgz  
BIGIP-LVMH-1\_20201115.ucs  
BIGIP-LVMH-2\_20201115.ucs

CSP-LB-01\_20201115.ucs  
CSP-LB-02\_20201115.ucs  
NISALBV01\_2020\_11\_11.ucs  
NISALBV01\_2020\_11\_11.ucs  
NISALBV02\_20201115.ucs  
NISSAN-TC-BIGIP-GTM\_2020\_11\_08.ucs  
NISSAN-TC-BIGIP-GTM\_2020\_11\_08.ucs  
NISSAN-TC-BIGIP-LTM-1\_20201115.ucs  
NISSAN-TC-BIGIP-LTM-2\_20201115.ucs  
UXFRLB-F5HOST2P\_20201115.ucs  
UXFRLB-VF5CTX2P\_20201115.ucs  
WGUSDC-GEOCLU1P\_20201115.ucs  
bigip-mich-azure0\_2020\_11\_15.ucs  
bigip-mich-azure1\_2020\_11\_15.ucs  
bigip-rexel-ie-1\_20201115.ucs  
bigip-rexel-tc-1\_2020\_11\_11.ucs  
bigip-rexel-tc-1\_2020\_11\_11.ucs  
lb-bigip-pcis-1\_20201115.ucs  
lb-bigip-pcis-2\_20201115.ucs  
lbl-lbnpriv-pa02-01\_2020\_11\_13.ucs  
lbl-lbnpriv-pa02-01\_2020\_11\_13.ucs  
lbl-lbnpriv-pa06-01\_2020\_11\_13.ucs  
lbl-lbnpriv-pa06-01\_2020\_11\_13.ucs  
nissan-ie-bigip-gtm-1\_20201115.ucs  
nissan-ie-bigip-ltm-1\_20201115.ucs  
nissan-ie-bigip-ltm-2\_20201115.ucs  
uxdefk-f5host1p\_2020\_11\_11.ucs  
uxdefk-f5host1p\_2020\_11\_11.ucs  
uxdefk-f5host2p\_2020\_11\_15.ucs  
uxdefk-vf5ctx1p\_20201115.ucs  
uxdefk-vf5ctx2p\_20201115.ucs  
uxdefk-vf5dns1p\_20201115.ucs  
uxdefk-vf5mutfr61p\_20201115.ucs  
uxdefk-vf5mutfr62p\_20201115.ucs  
uxdefk-vf5mutpa33p\_20201115.ucs  
uxdefk-vf5mutpa34p\_20201115.ucs  
uxfrlb-f5host1p\_2020\_11\_15.ucs  
uxfrlb-vf5ctx1p\_20201115.ucs  
uxfrlb-vf5dns1p\_20201115.ucs  
uxfrlb-vf5mut1p\_20201115.ucs  
uxfrlb-vf5mut2p\_20201115.ucs



## 6.8 Annex 8: audit-reseau.pl(Final)

```
#!/usr/bin/perl -w
use DBI;

#Recuperations de la liste des switchs ou les backup sont en échec

$dbh = DBI->connect('dbi:mysql:netmon','netmon','7zBTtvXEy1')
#or die "Connection Error: $DBI::errstr\n";
#
$sql = "select host_name from backup where (type='HP Procurve' or type like
'Nortel%') and status='Echec'";

$sth = $dbh->prepare($sql);
#
$sth->execute
#
#or die "SQL Error: $DBI::errstr\n";
#

print "Bonjour,<br>\n";
print "<h3 align=center>CR Audit </h3>";
print "<br>";

print "<b> Backup des SWITCH </b><br>";
print "<br>\n";

$path = "/home/backups/switch_bkp";
chdir($path) or die "Cant chdir to $path $!";

my @files_hp = glob("*");

my %files_hp;

foreach my $file_hp (sort @files_hp) {
my $file_name_hp = substr($file_hp,0,-15);
$files_hp{$file_name_hp}=1;
}

foreach (sort keys %files_hp) {
no warnings qw(uninitialized);
my @files_latest_hp = glob("$_*");

print "$files_latest_hp[$#files_latest_hp]<br>\n";
}

#
#if ($sth->rows ==0)
#{
#
# print "Ras<br>\n";
#
#}
#else
#{
# while (@row = $sth->fetchrow_array)
# {
# print "@row<br>\n";
# }
#
#}
#
```

```

#Backup des Checkpoint, BigIP, Radware et ISA, on recuperer le dernier fichier du
chaque repertoire de Backup
#Backup des firewall checkpoint.
print "<br>";
print "<b>Backup CKP</b><br>";
print "<br>";

$path = "/home/backups/checkpoint_bkp";
chdir($path) or die "Cant chdir to $path $!";

my @files_ckp = glob("*ackup_*");

my %files_ckp;

foreach my $file_ckp (sort @files_ckp) {
my $file_name_ckp = substr($file_ckp,0,-13);
$files_ckp{$file_name_ckp}=1;
}

foreach (sort keys %files_ckp) {
no warnings qw(uninitialized);
my @files_latest_ckp = glob("$_*");

print "$files_latest_ckp[ $#files_latest_ckp]<br>\n";
}

#Backup des BIGIP
print "<br>";
print "<b>Backup BIGIP</b><br>";
print "<br>";

$path = "/home/backups/bigip_bkp";
chdir($path) or die "Cant chdir to $path $!";

my @files_bigip = glob("*ucs*");

my %files_bigip;

foreach my $file_bigip (sort @files_bigip) {
my $file_name_bigip = substr($file_bigip,0,-12);
$files_bigip{$file_name_bigip}=1;
}

foreach (sort keys %files_bigip) {
no warnings qw(uninitialized);
my @files_latest_bigip = glob("$_*");

print "$files_latest_bigip[ $#files_latest_bigip]<br>\n";
}

print "<br>";
print "Bonne journee.<br>";
print "<br>";

print "Cordialement,<br>";
print "Linkbynet <br>";

system("python3 /usr/local/linkbynet/scripts/Audit_Reseau/Highlight.py");

#On execute le script sendmail.sh pour l'envoi mail.

```

```
system("/bin/bash /usr/local/linkbynet/scripts/Audit_Reseau/sendmail.sh");
```