

MikroTik

EN SOLUTION
ALTERNATIVE



MUM PARIS - Vendredi 13 mai 2016





 Azurtem
c'est moi

Créée en 2009, basée à NICE.
Maintenance: Systèmes & Réseaux.
Wifi, Câblage, Vidéosurveillance.
Mikrotik'isé depuis 2011



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Besoins du client:

Connectivité de ses agences



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Besoins du client:

Durée max
coupure:
2hrs

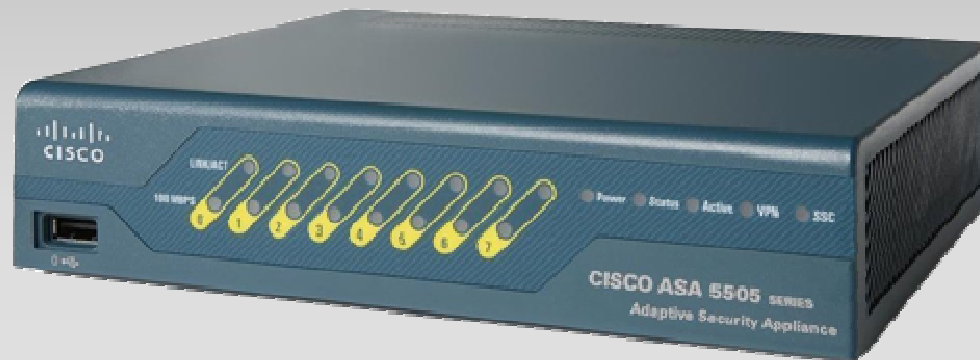
Connectivité de ses agences

High availability routing appliance for small business



PRESENTER: ROY ADAMS
www.racs.com.au • www.dnssecrets.com

Merci à Roy ADAMS
de RACS pour sa
présentation intitulée
"High Availability
Routing" dont je me
suis inspirée.
[MUM Sydney 2012]



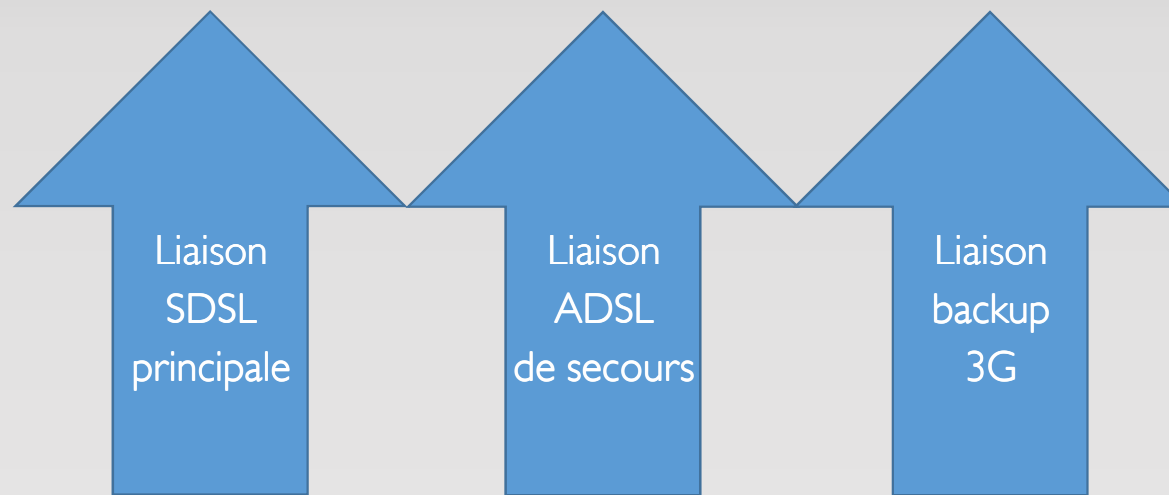
\$595

Prix de départ

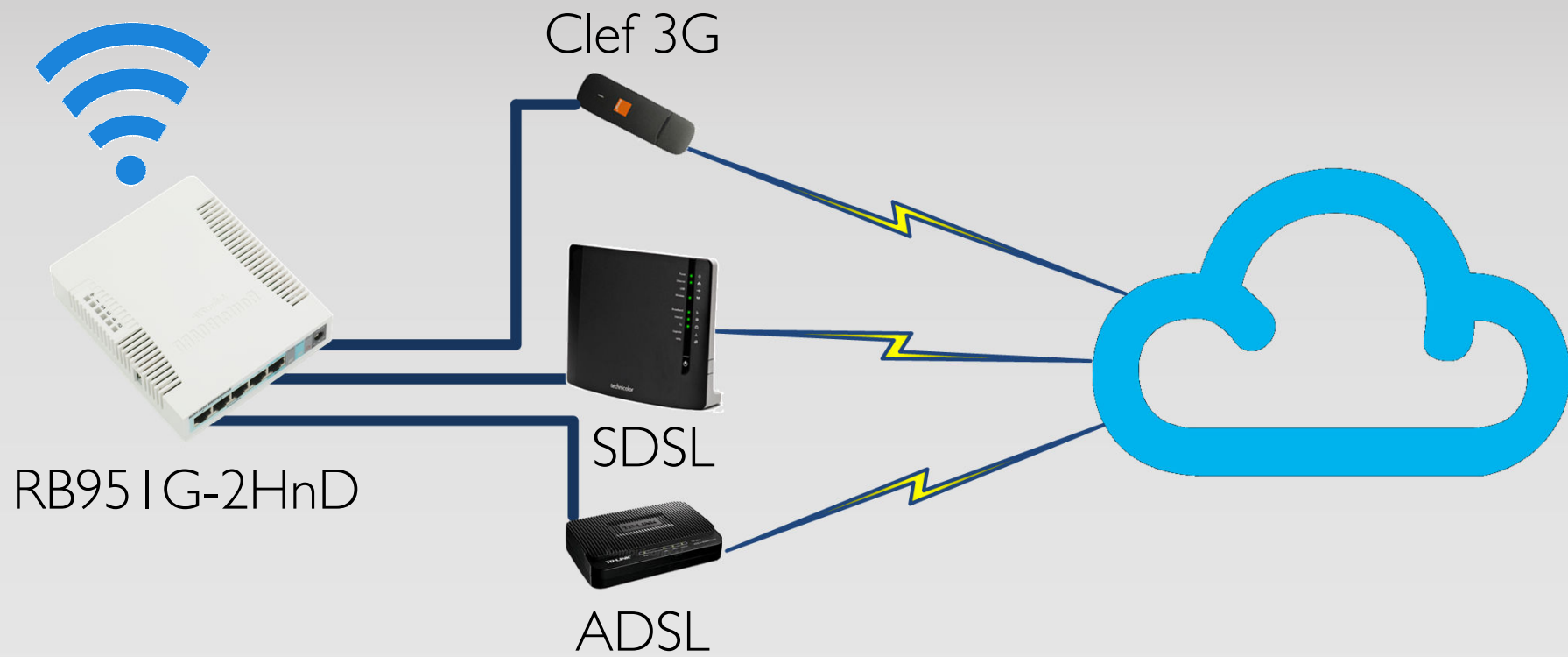


Tout compris

Une ligne de secours c'est bien,



deux c'est mieux.



Liens Actifs



Expédition et Installation



WAN Failover Script

```
#-----
# MikroTik RouterOS WAN Failover
#-----
#alexanderfefelov
#https://github.com/alexanderfefelov/mikrotik-routeros-scripts/blob/master/wan-failover
#-----
# Settings
#-----
:local PRIMARYROUTELABEL "PRIMARY_ROUTE";
:local BACKUPROUTELABEL "BACKUP_ROUTE";
# Hosts to ping via primary route (Yandex.DNS)
:local PRIMARYHOSTS {77.88.8.8; 77.88.8.7};
# Hosts to ping via backup route (Yandex.DNS)
:local BACKUPHOSTS {77.88.8.1; 77.88.8.3};
:local PINGCOUNT 3;
:local PINGTRESHOLD 70;

#-----
# Check primary route
#-----
:local primaryOk false;
:local primarySuccessPingCount 0;
:foreach host in=$PRIMARYHOSTS do={
    :local n [/ping $host count=$PINGCOUNT];
    :set primarySuccessPingCount ($primarySuccessPingCount + $n);
}
:set primaryOk (($primarySuccessPingCount * 100) >= ([:len $PRIMARYHOSTS] * $PINGCOUNT * $PINGTRESHOLD));
:if (!$primaryOk) do={
    :log error "Primary internet connection down"
};

#-----
# Check backup route
#-----
:local backupOk false;
:local backupSuccessPingCount 0;
:foreach host in=$BACKUPHOSTS do={
    :local n [/ping $host count=$PINGCOUNT];
    :set backupSuccessPingCount ($backupSuccessPingCount + $n);
}
:set backupOk (($backupSuccessPingCount * 100) >= ([:len $BACKUPHOSTS] * $PINGCOUNT * $PINGTRESHOLD));
:if (!$backupOk) do={
    :log error "Backup internet connection down"
};

#-----
# Failover
#-----
:local primaryDistance [/ip route get [find comment=$PRIMARYROUTELABEL] distance];
:local backupDistance [/ip route get [find comment=$BACKUPROUTELABEL] distance];
:if ($primaryOk && ($primaryDistance >= $backupDistance)) do={
# Switch to primary route
    /ip route set [find comment=$PRIMARYROUTELABEL] distance=1
    /ip route set [find comment=$BACKUPROUTELABEL] distance=2
    /log warning "Switched to primary internet connection"
# Remove all connections
    /ip firewall connection tracking set enabled=no
    :delay 5s
    /ip firewall connection tracking set enabled=yes
};
:if (!$primaryOk && $backupOk && ($primaryDistance <= $backupDistance)) do={
# Switch to backup route
    /ip route set [find comment=$PRIMARYROUTELABEL] distance=2
    /ip route set [find comment=$BACKUPROUTELABEL] distance=1
    /log error "Switched to backup internet connection"
# Remove all connections
    /ip firewall connection tracking set enabled=no
    :delay 5s
    /ip firewall connection tracking set enabled=yes
};
```

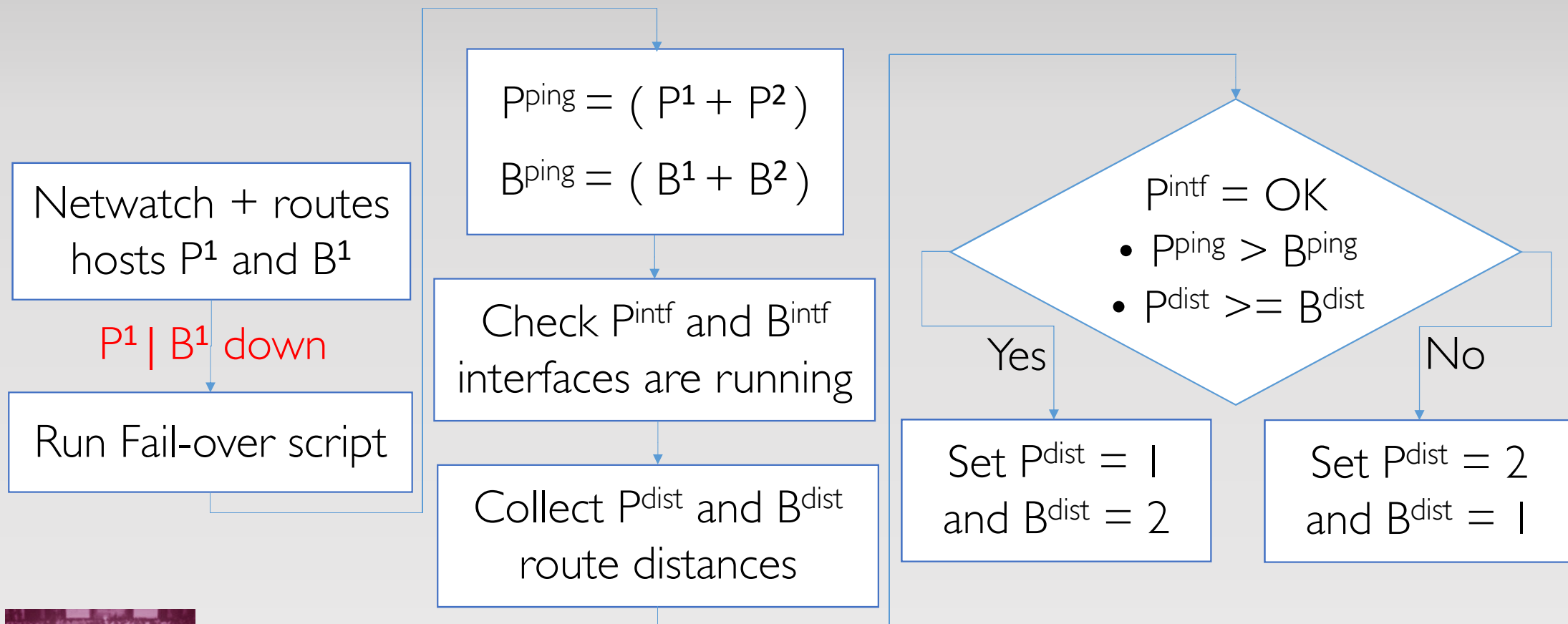


By Alexander FEFELOV

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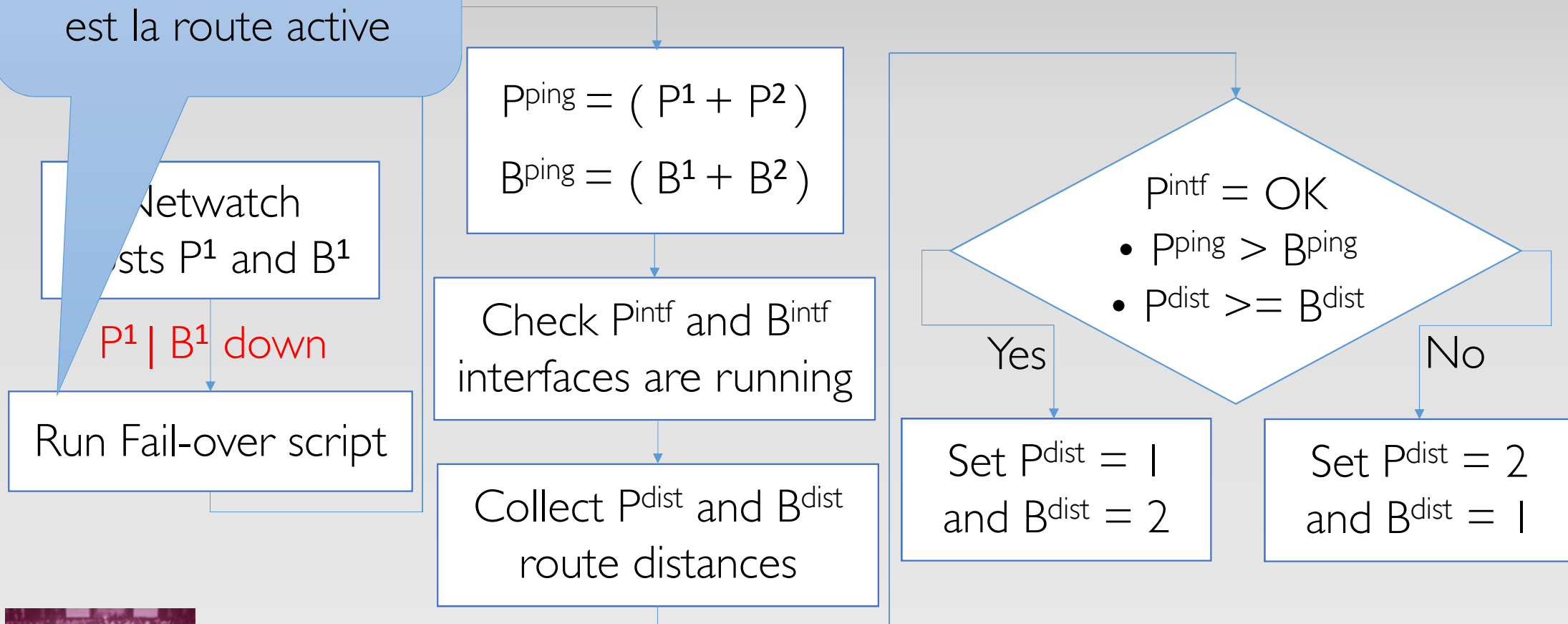


Fail-over logic



Répéter l'exécution du script tant que Backup est la route active

Fail-over logic



Difficultés

Téléphonie sur IP

Gestion de la bande passante



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Paldies

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