

Marketing Field Requirement

* = Required Field

Number MR0825155235
Status Rejected
Status

| | | |
|---|-------------|--|
| Current Status : Rejected | | |
| Status | Date | Promoted by |
| Created: | 25.08.2015 | Hanspeter Walker |
| Acknowledged: | 25.08.2015 | Hanspeter Walker |
| Resolver Assigned: | - | - |
| Recognized: | - | - |
| Accepted: | - | - |
| Announced: | - | - |
| Available: | - | - |
| Suggestion: | - | - |
| Deferred: | - | - |
| Rejected: | 25.08.2015 | Anil K Kanthak |
| Returned for Clarification: | - | - |
| Reopened: | - | - |
| Closed: | - | - |
| Submitted By : Hanspeter Walker/Switzerland/IBM | | FPOC: Michael Lyons/Austin/IBM; Marc Stephenson/Austin/IBM; Anil K Kanthak/India/IBM |
| Originated By : Hanspeter Walker | | Resolver: |

Submitter Section

| | |
|--|--|
| Submitted By : Hanspeter Walker | Submitted Date : 25.08.2015 |
| *Submitter's Notes Domain : IBMCH | |
| *Originated By : Hanspeter Walker | *Originator's Area : AIX sw support |

Section Editors :

User Marketing Field Requirement Number: MR0825155235

***Title:** ssh login delay due to long hostsallowedlogin list when 1st DNS server is not available

***Description :**
 Problem

 Client tries to connect via ssh to his system but this fails if the Primary DNS Server cannot be reached.
 I.e. the ssh connection is just closed after running into a timeout.

However, when sshd is run in triple debug mode the login prompt appears after ca. 8 minutes.

Investigation

 Investigation showed that there there is a 3:15 min delay in SSH traffic.

At the same time there is a sequence of 194 DNS queries with sequential IDs and a one second interval between the queries.

As example please see following ldap user listing (not with 194 hostsallowedlogin hosts, but less):

```
jmadm@[epmdb1]_p550RZ07:[/admin/jmadm]$ lsuser -R LDAP
jmaehlma
jmaehlma id=2324 pgrp=admin
groups=admin,awl,opensys,dbwiki,serconguy,jrs-zabbix
home=/home/jmaehlma shell=/bin/bash geccos=Juergen
Maehlmann,juergen.maehlmann@exch.defm.awl.atosorigin.net,aops
_key (AOPS Key) <aops_securiq@atosorigin.com> login=true
su=false rlogin=true daemon=true admin=false sugroups=
admgroups= tpath=nosak ttys=ALL expires=0 auth1=SYSTEM
auth2=NONE umask=27 registry=LDAP SYSTEM=LDAP logintimes=
loginretries=3 pwdwarntime=7 account_locked=false minage=0
maxage=5 maxexpired=4 minalpha=2 minother=2 mindiff=3
maxrepeats=2 minlen=8 histexpire=10 histsize=10 pwdchecks=
dictionlist=
hostsallowedlogin=*,infoqual.ffm.de.int.atosorigin.com,oltpq.ffm.de.int.
atosorigin.com,oltp1.ffm.de.int.atosorigin.com,oltp2.ffm.de.int.atosori
gin.com,aida.ffm.de.int.atosorigin.com,maaxquaq.ffm.de.int.atosori
gin.com,maaxp1.ffm.de.int.atosorigin.com,maaxp2.ffm.de.int.atosorigi
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com,argosa2.ffm.de.int.atosorigin.com,argosad.ffm.de.int.atosorigin.
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lp1b.ffm.de.int.atosorigin.com,idealp2a.ffm.de.int.atosorigin.com,idea
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stack=-1 core=-1 rss=-1 nofiles=2000 time_last_login=1440486083
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tty_last_unsuccessful_login=ssh host_last_login=10.48.246.42
host_last_unsuccessful_login=10.48.246.42
unsuccessful_login_count=0 roles=
jmadm@[epmdb1]_p550RZ07:[/admin/jmadm]\$

This interval relates to specified resolver timeout and the fact that the first nameserver address was modified to an inexistent host for test purposes.

There is not a query seen but an ARP request.

This is due to a hostsallowedlogin list of hosts that were returned from ldap and then get checked against the incorrect DNS server. Rotate option doesn't apply as this is not generated from the same process. Customer has some users which have 300+ hostsallowedlogin entries.

==> This is working as designed and due to the customer implementation. Customer is not satisfied but this behaviour can only be changed with a DCR.

We suggested to use netcd to cache hostnames which he isn't allowed.

Customer's suggestions

Customer suggests one of the following

- 1.) do a grep on the received host.allowed list with own host name, then trigger the DNS request
- 2.) if the primary DNS doesn't reply, use the 2nd for subsequent request.
- 3.) use the round-robin-flag in /etc/resolv.conf (would be 2x faster).

4.) Customer informed that Linux can handle such requests with wildcard:

hostsallowedlogin=* (he uses this only for the linux admin)

corresponding search in /etc/nslcd.conf:

```
"pam_authz_search  
(&(objectClass=posixAccount)(uid=$username)(|(host=$hostname)(host=$fqdn)(host=\\*)))"
```

| | |
|-------------------------------------|-----------------------------|
| *Priority : | High |
| *Requested Completion Date : | 31.12.2015 |
| (Original Requested Date) | 31.12.2015 |
| *Resolving Pipe : | AIX, LoP, System p Hardware |
| *Resolving Release : | AIX |
| *Resolving Entity : | Security |

***IBM Business Justification (Include SIEBEL number for a priority):** Atos Worldline Processing Gm is a valued BP .

***Requirement Type** Feature/Function

Suggested Solution : Customer suggests one of the following

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```

Source: Customer

Problem Management Record (PMR):

PMR Number: 86788, Branch Code 075, Country Code 724

Other Related Information :

Environment : AIX 6100-09-03-1415

Product Information (Document Product & V/R): AIX

Customer Information :

Geography ID#: Germany 724
Customer ID#: 0218879
Name/Address/Business Name: Juergen Maehlmann
e_mail: juergen.maehlmann@atos.net
Phone: +49 69 6657-1726

First Point of Contact Section

FPOC Name : Michael Lyons/Austin/IBM, Marc Stephenson/Austin/IBM, Anil K Kanthak/India/IBM

Section Editors :

Due Date : 23.11.2015
(Initial Due Date): 23.11.2015

Reject Reason : Other

Reject Explanation :

Use RFE tool to submit the requirements

External Response :

Related Information :

IBM Confidential Yes No

Comments Section

Latest Status Information :

Interested Parties :

Comments

(none)

Marketing Field Requirement

* = Required Field

Number MR0825155235
Status Draft Copy
Status

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|---|-------------|--------------------|
| Current Status : Draft Copy | | |
| Status | Date | Promoted by |
| Created: | 25.08.2015 | Hanspeter Walker |
| Acknowledged: | - | - |
| Resolver Assigned: | - | - |
| Recognized: | - | - |
| Accepted: | - | - |
| Announced: | - | - |
| Available: | - | - |
| Suggestion: | - | - |
| Deferred: | - | - |
| Rejected: | - | - |
| Returned for Clarification: | - | - |
| Reopened: | - | - |
| Closed: | - | - |
| Submitted By : Hanspeter Walker/Switzerland/IBM | | FPOC: |
| Originated By : Hanspeter Walker | | Resolver: |

Submitter Section

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|--|---|
| Submitted By : Hanspeter Walker | Submitted Date : |
| *Submitter's Notes Domain : IBMCH | |
| *Originated By : Hanspeter Walker | *Originator's Area: AIX sw support |

Section Editors :

***User Marketing Field Requirement Number:** MR0825155235

***Title:** ssh login delay due to long hostsallowedlogin list when 1st DNS server is not available

***Description :**

Problem

 Client tries to connect via ssh to his system but this fails if the Primary DNS Server cannot be reached.
 I.e. the ssh connection is just closed after running into a timeout.

However, when sshd is run in triple debug mode the login prompt appears after ca. 8 minutes.

Investigation

 Investigation showed that there there is a 3:15 min delay in SSH traffic.
 At the same time there is a sequence of 194 DNS queries with sequential IDs and a one second interval between the queries.

As example please see following ldap user listing (not with 194 hostsallowedlogin hosts, but less):

```
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jmaehlma
jmaehlma id=2324 pgrp=admin
groups=admin,awl,opensys,dbwiki,serconguy,jrs-zabbix
home=/home/jmaehlma shell=/bin/bash geccos=Juergen
Maehlmann,juergen.maehlmann@exch.defm.awl.atosorigin.net,aops
_key (AOPS Key) <aops_securiq@atosorigin.com> login=true
su=false rlogin=true daemon=true admin=false sugroups=
admgroups= tpath=nosak ttys=ALL expires=0 auth1=SYSTEM
auth2=NONE umask=27 registry=LDAP SYSTEM=LDAP logintimes=
loginretries=3 pldwarntime=7 account_locked=false minage=0
maxage=5 maxexpired=4 minalpha=2 minother=2 mindiff=3
maxrepeats=2 minlen=8 histexpire=10 histsize=10 pwdchecks=
dictionlist=
hostsallowedlogin=*,infoqual.ffm.de.int.atosorigin.com,oltpq.ffm.de.int
.t.atosorigin.com,oltp1.ffm.de.int.atosorigin.com,oltp2.ffm.de.int.atosori
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gin.com,oltpc1 ffm.de.int.atosorigin.com,epqual2 ffm.de.int.atosorigin
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gin.com,idealp5b2 ffm.de.int.atosorigin.com,infodwhp2 ffm.de.int.ato
sorigin.com,yapitalp1 ffm.de.int.atosorigin.com,yapitalp2 ffm.de.int.at
osorigin.com,finedbq1 ffm.de.int.atosorigin.com,finedbq2 ffm.de.int.at
osorigin.com,finedbp1 ffm.de.int.atosorigin.com,finedbp2 ffm.de.int.at
osorigin.com,oraobserva ffm.de.int.atosorigin.com,oraobservc ffm.de
.int.atosorigin.com,entax2pa ffm.de.int.atosorigin.com,entax2pc ffm.d
e.int.atosorigin.com,gbluep1 ffm.de.int.atosorigin.com,gbluep2 ffm.de
.int.atosorigin.com,gblueq1 ffm.de.int.atosorigin.com,gblueq2 ffm.de.i
nt.atosorigin.com,kxdbp1 ffm.de.int.atosorigin.com,kxdbp2 ffm.de.int.
atosorigin.com,kxdbq ffm.de.int.atosorigin.com,epmdb1 ffm.de.int.ato
sorigin.com,epmdb2 ffm.de.int.atosorigin.com,mspdbpa ffm.de.int.at
osorigin.com,mspdbpc ffm.de.int.atosorigin.com,aflpve280048 ffm.de
.int.atosworldline.com default_roles= fsize=-1 cpu=-1 data=-1
stack=-1 core=-1 rss=-1 nofiles=2000 time_last_login=1440486083
time_last_unsuccessful_login=1422285240 tty_last_login=ssh
tty_last_unsuccessful_login=ssh host_last_login=10.48.246.42
host_last_unsuccessful_login=10.48.246.42
unsuccessful_login_count=0 roles=
jmadm@[epmdb1]_p550RZ07:[/admin/jmadm]\$

This interval relates to specified resolver timeout and the fact that the first nameserver address was modified to an inexistent host for test purposes.

There is not a query seen but an ARP request.

This is due to a deny-list of hosts that were returned from ldap and

then get checked against the incorrect DNS server.
Rotate option doesn't apply as this is not generated from the same process.

==> This is working as designed and due to the customer implementation.
Customer is not satisfied but this behaviour can only be changed with a DCR.

We suggested to use netcd to cache hostnames which he isn't allowed.

Customer's suggestions

Customer suggests one of the following

- 1.) do a grep on the received host.allowed list with own host name, then trigger the DNS request
- 2.) if the primary DNS doesn't reply, use the 2nd for subsequent request.
- 3.) use the round-robin-flag in /etc/resolv.conf (would be 2x faster).

4.) Customer informed that Linux can handle such requests with wildcard:

hostsallowedlogin=* (he uses this only for the linux admin)

corresponding search in /etc/nslcd.conf:

```
"pam_authz_search  
((&(objectClass=posixAccount)(uid=$username)(|(host=$hostname)(host=$fqdn)(host=\\*)))"
```

***Priority:** High
***Requested Completion Date :**
***Resolving Pipe :** AIX, LoP, System p Hardware
***Resolving Release :** AIX
***Resolving Entity :** Security

***IBM Business Justification (Include SIEBEL number for a priority):**

***Requirement Type** Feature/Function

Suggested Solution :

Source: Customer

Problem Management Record (PMR):

PMR Number: 86788, Branch Code 075, Country Code 724

Other Related Information :

Environment: AIX 6100-09-03-1415

Product Information (Document Product & V/R): AIX

Customer Information :

| | |
|-----------------------------|----------------------------|
| Geography ID#: | Germany 724 |
| Customer ID#: | 0218879 |
| Name/Address/Business Name: | Juergen Maehlmann |
| e_mail: | juergen.maehlmann@atos.net |
| Phone: | +49 69 6657-1726 |

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Latest Status Information :
Interested Parties :

Comments

(none)

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