

FreeNAS - Bug #33453

Fix unnecessary AD restarts caused by enabling service monitor

05/11/2018 04:03 PM - Andrew Walker

Status:	Done	
Priority:	No priority	
Assignee:	Andrew Walker	
Category:	OS	
Target version:	11.1-U6	
Seen in:	11.1-U4	Needs Merging: No
Severity:	High	Needs Automation: No
Reason for Closing:		Support Suite Ticket: KCW-603-27897
Reason for Blocked:		Hardware Configuration:
Needs QA:	No	ChangeLog Required: No
Needs Doc:	No	

Description

This issue affects multiple customers. The AD monitoring feature can stop or restart active directory unnecessarily. This is usually caused by DNS misconfigurations or domain controllers being temporarily taken down for maintenance. Not every problem with AD monitoring is obviously connected to DNS. I have one ticket in which "service ix-kinit status" is failing. At this point it is unclear whether this is caused by a change in the customer's environment or is a bug in AD monitoring.

Regardless, this leads to service outages when one would perhaps not have happened if monitoring were disabled.

I think we need to either:

(1) Improve the tests we're performing for "connected" and "started". Examples being:

--(a) use DNS SRV records to identify a list of domain controllers for the domain, then try to connect to all of them and only fail if they all fail.

--(b) review tests that we're using to determine whether AD is "started". Do we really need to perform "service ix-kinit status" and "service ix-activedirectory status"? Perhaps "wbinfo -p" and "wbinfo -t" are sufficient in this case. Is a 1 second sleep between tests too short?

or

(2) Validate the state of the domain prior to enabling monitoring. For instance:

--(a) Don't allow it to turn on if DNS is obviously misconfigured.

or

(3) Introduce an easy way to temporarily disable AD monitoring without restarting the AD service, so that administrators can take steps to ensure they don't experience an outage while performing maintenance on DCs.

Related issues:

Related to FreeNAS - Bug #35059: Active Directory binding continuously resets...	Closed
Related to FreeNAS - Bug #30678: Active Directory Service Failing II	Closed
Related to FreeNAS - Bug #34813: AD Dropout	Closed
Related to FreeNAS - Bug #32094: SMB Service restarts	Closed
Related to FreeNAS - Bug #36823: Fix unneeded stops and restarts in AD monito...	Done
Related to FreeNAS - Bug #41164: Domain Controller Not Found for domain	Closed
Has duplicate FreeNAS - Bug #28561: Reconnecting Active Directory kills Samba...	Closed

History

#1 - 05/17/2018 10:09 AM - Dru Lavigne

- Category changed from OS to Middleware

- Assignee changed from Release Council to William Grzybowski

Passing to William first to see if a middleware piece is needed.

#2 - 05/17/2018 10:22 AM - William Grzybowski

- Category changed from *Middleware* to *OS*
- Assignee changed from *William Grzybowski* to *Timur Bakeyev*

#3 - 05/24/2018 04:45 PM - Dru Lavigne

- Status changed from *Unscreened* to *In Progress*
- Assignee changed from *Timur Bakeyev* to *Andrew Walker*
- Target version changed from *Backlog* to *11.2-BETA1*

#4 - 05/25/2018 04:10 AM - Andrew Walker

- Severity changed from *New* to *Med High*

#5 - 05/31/2018 09:33 AM - Dru Lavigne

- Target version changed from *11.2-BETA1* to *11.2-RC2*

#6 - 05/31/2018 11:48 AM - Caleb St. John

- Support Suite Ticket changed from *n/a* to *KCW-603-27897*

#10 - 06/12/2018 12:25 PM - Dru Lavigne

- Private changed from *No* to *Yes*

Notes that a new PR will be forthcoming as John/Timur/Andrew have discussed a better way to handle this.

#11 - 06/19/2018 09:51 AM - Sam Fourman

- Severity changed from *Med High* to *High*

#13 - 06/19/2018 10:58 AM - Dru Lavigne

- Related to Bug #35059: *Active Directory binding continuously resets when monitoring is enabled added*

#14 - 06/19/2018 11:04 AM - Dru Lavigne

- Related to Bug #32814: *Active Directory fails is first DC/DNS goes down added*

#15 - 06/19/2018 11:04 AM - Dru Lavigne

- Related to Bug #30678: *Active Directory Service Failing II added*

#17 - 06/22/2018 01:24 PM - Dru Lavigne

- Target version changed from *11.2-RC2* to *11.1-U6*

#18 - 06/22/2018 01:32 PM - Andrew Walker

There are still some code changes that I need to make per John's request. I'll work on this today and ping for another review.

#19 - 07/10/2018 06:23 PM - Dru Lavigne

- Related to Bug #34813: *AD Dropout added*

#20 - 07/10/2018 07:34 PM - Dru Lavigne

- Related to Bug #32094: *SMB Service restarts added*

#21 - 07/10/2018 07:35 PM - Dru Lavigne

- Has duplicate Bug #28561: Reconnecting Active Directory kills Samba connections added

#22 - 07/18/2018 10:33 AM - Andrew Walker

PR against stable: <https://github.com/freenas/freenas/pull/1564> (initial commit)

PR against stable: <https://github.com/freenas/freenas/pull/1624> (fixes for issues found during testing)

PR against Master - <https://github.com/freenas/freenas/pull/1340> (initial commit)

PR against Master - <https://github.com/freenas/freenas/pull/1614> (fixes for issues found during testing)

#23 - 07/18/2018 12:21 PM - John Hixson

Merged

#24 - 07/18/2018 12:22 PM - John Hixson

- Status changed from In Progress to Ready for Testing

#26 - 07/18/2018 12:32 PM - Dru Lavigne

- Private changed from Yes to No

- Needs Merging changed from Yes to No

#27 - 07/18/2018 12:53 PM - Dru Lavigne

- Subject changed from AD monitoring can restart AD service unnecessarily to Fix unnecessary AD restarts caused by enabling service monitor

#28 - 08/01/2018 08:16 AM - Dru Lavigne

- Needs Doc changed from Yes to No

#29 - 08/03/2018 07:16 AM - Dru Lavigne

- Related to Bug #36823: Fix unneeded stops and restarts in AD monitoring added

#30 - 08/06/2018 12:49 PM - Timur Bakeyev

- Related to deleted (Bug #32814: Active Directory fails is first DC/DNS goes down)

#31 - 08/14/2018 02:49 AM - Dru Lavigne

- Related to Bug #41164: Domain Controller Not Found for domain added

#32 - 08/20/2018 11:12 AM - Bonnie Follweiler

- Status changed from Ready for Testing to Passed Testing

- Needs QA changed from Yes to No

#34 - 08/20/2018 11:20 AM - Dru Lavigne

- Status changed from Passed Testing to Done