

Knowledge Base Article: 000335878

VBA: How to Delete a VBA Node? (000335878)

Version: 4

Article Type: Break Fix

Audience: Level 30 = Customers

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Summary:

Issue:

Describes procedure to delete/remove a VBA Node
Procedure involves deleting backups taken through VBA Node

Assumptions:

You want to remove VBA node entirely and delete it's backups from NetWorker server
The VBA node is online and responding to request from NetWorker server

EMC NetWorker 8.1.x or newer

EMC NetWorker VMware Protection Virtual Backup Appliance (VBA) 8.1 with OVA version 1.0.x or newer

Resolution:

VBA Node delete/remove is not recommended by EMC as a troubleshooting step. For any assistance with troubleshooting issues, please contact EMC Support for assistance
If you need to remove VBA Node, please contact EMC GLOBAL SERVICES PERSONNEL AND EMC AUTHORIZED SERVICE PARTNERS ONLY

Notes (Employees and Partners):

This document contains time sensitive material and is EMC CONFIDENTIAL INFORMATION FOR EMC GLOBAL SERVICES PERSONNEL AND EMC AUTHORIZED SERVICE PARTNERS INTERNAL USE ONLY.
If there are any questions with this procedure, please contact support.

Steps to decommission a VBA Node are explained below:

Note: It is highly recommended to do the following steps to backup your nsrdb and mm directory before following this procedure:

1. Log on to NetWorker server and open the following directory <networker-install>\nsr
2. Make a copy of the following directories:
res\nsrdb
mm

STEP 1: Remove all save sets for the client-id for this VBA node.

STEP 1/PART 1: On NetWorker server we need to query the information for this particular VBA node so it can be deleted. You can either use NMC or command line to find all backups that need to be deleted.

STEP 1/PART 1/Option 1: To find all backups for a particular VBA node using NMC GUI:

A. Log in to **NetWorker Management Console**

B. Go to **Media** tab and select **Save Sets**, then select **VMware Backup Appliance Online** as shown below:



Note: Please do NOT select any VBA that you do NOT want to delete.

C. Then for the **Query Save Set** tab, select only the required entries in VBA Name that you want to find the information for. Keep in mind

that the goal is to query the information for this particular VBA node so it can be deleted. Below example shows that vbalabnode2x.vba.lab was selected to be queried:

D. Now change the **Save Time From** to select an approximate timeframe when VBA was initially deployed. Example below shows the 'From' value being changed to June 2012 and then selecting a date 1st :

E. After selecting the appropriate query parameters, click the **Save Set List** tab. Here view the output to ensure that all data Save sets in this output belong to the VBA you intend to delete. Example below shows the VBA vbalabnode2x.vba.lab data being displayed:

VBA Name	VM Name	Policy	SSID	Clone ID	Status	Media	Volume Name	Pool	Size	Save	Clone Retention Time
vbalabnode2x.vba-shared.lab	VM2	BackupBoost	423582004	1434984597	receive...	Data D...	dd2x15.001	dd220...	41	6/22/...	6/22/16 7:49:57 AM
vbalabnode2x.vba-shared.lab	VM1	BackupBoost	4236805106	1434984834	receive...	Data D...	dd2x15.001	dd220...	41	6/22/...	6/22/16 7:53:52 AM
vbalabnode2x.vba-shared.lab	VM2	BackupBoost	4220027895	1434984842	receive...	Data D...	dd2x15.001	dd220...	41	6/22/...	6/22/16 7:54:02 AM

STEP 1/PART 1/Option 2: To find all backups for a particular VBA node using CLI on NetWorker server use mminfo as shown here:
Syntax: `mminfo -c <vba-name> -kot`

For Example: To find all backups for VBA named 'vbalabnode2x.vba.lab' run query:

```
mminfo -c vbalabnode2x.vba.lab kot
```

Output:

```

volume      type    vm_name      date        time          size  ssid      fl  backup_size
dd2x15.001  Data   Domain VM2   6/22/2015  7:49:57 AM   41 GB xxxxxx cr 41 GB
dd2x15.001  Data   Domain VM1   6/22/2015  7:53:52 AM   41 GB xxxxxx cr 41 GB
dd2x15.001  Data   Domain VM2   6/22/2015  7:54:02 AM   41 GB xxxxxx cr 41 GB

```

STEP 1/PART 2: Once the required SSID have been identified to delete, you can now use either of the options to purge the data.

Note: If your system shows no backups for the VBA, skip this part

STEP 1/PART 2/Option 1: If the VBA is online and if there is a unique volume where all the SSIDs are stored, i.e. there is no other data on this volume- you can delete this volume

STEP 1/PART 2/Option 2: If the VBA is online and if there is no unique volume that contains all the SSID, then you can use `nsrmm`

command to delete the individual Save set. Syntax: `nsrmm -d -S <SSID>`

For Example: Below example shows command to delete

```
nsrmm -d -S xxxxxxxx
```

Delete file and media index entries for save set `4253582084'? y

98999:nsrmm: Save set 4253582084 has been successfully deleted from VBA server 'vbalabnode2x.vba.lab'

Note: The above command deletes one saveset at a time. Please take extreme caution to ensure you delete only the save sets that belong to the VBA you intend to delete

STEP 1/PART 2/Option 3: If the VBA is NOT online, then use the `-X` option to delete the Save set:

```
nsrmm -X -d -S <SSID>
```

Note: The `-X` flag is available through support cumulative release 8.2.1.6 or newer. Please update the NetWorker server to 8.2.1.6 or newer to avail this fix

For Example: `nsrmm -X -d -S 4237053710`

Delete file and media index entries for save set `4237053710'? y

STEP 2: Remove all workflows associated with the VBA:

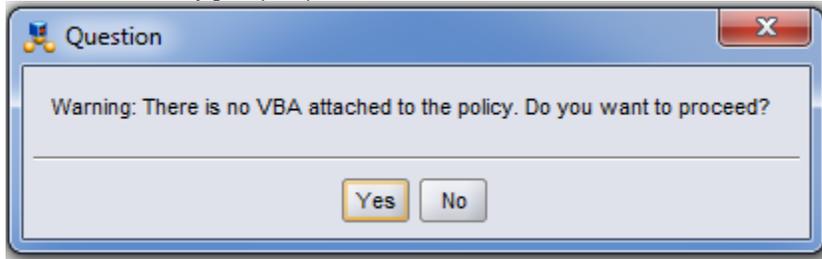
A. Login to **NMC**

B. Go to **Configuration** tab and click **VMware Protection Policies**

C. Sort the policies by **VBA List**

D. Open the first policy that has this VBA listed, go to **VMware Backup Appliance Selection** tab and uncheck the VBA name.

TIP: You may get a prompt:



E. Wait for the **State** column to change to **Success**

F. [Optional] If you no longer need to back up a particular vCenter server. Log in to nsradmin and delete `nsr hypervisor` as per below instructions:

On the NetWorker server, open a shell and type `nsradmin p nsrd` to get to the prompt

```
nsradmin> p type: nsr hypervisor; name: <vcenter-name>
```

For Example: Below is the example of delete a reference to vCenter named `VC4.vba.lab`

```
nsradmin> p type: nsr hypervisor; name: VC4.vba.lab
type: NSR hypervisor
name: VC4.vba.lab;
comment: ;
service: VMware VirtualCenter;
endpoint: "https://VC4.vba.lab/sdk";
username: administrator@vba.lab;
password: *****;
command: nsrvim;
proxy: nw4;
nsradmin> d
Delete ? yes
```

Note: This step may need to be done using offline nsradmin if VBA is NOT responding

STEP 3: Delete VBA MTree:

A. On the NetWorker server, run the below nsradmin commands to find the VBA DPN ID:

```
nsradmin> show name
```

```
nsradmin> show DPN ID
```

```
nsradmin> p type: nsr vba server; name: <VBA-FQDN>
```

Example output:

```
nsradmin
```

NetWorker administration program.

Use the "help" command for help, "visual" for full-screen mode.

```
nsradmin> show name
```

```
nsradmin> show DPN ID
```

```
nsradmin> p type: nsr vba server; name: vbalabnode2x.vba.lab
```

```
name: vbalabnode2x.vba.lab;
```

```
DPN ID: xxxxxxxxxxxx;
```

Make note of the DPN ID. This will help us determine the storage unit, for example, for the above DPNID, the storage unit will be 'avamar-1435099427'

B. Log in to Data domain system using PuTTY(or similar SSH utility) as a user with 'admin' role. Then run below command to delete:

```
ddboost storage-unit delete <storage-unit>
```

Example: `ddboost storage-unit delete avamar-1435099427`

C. [Optional] Start a filesystem clean on data domain to reclaim space:

```
fileys clean start
```

STEP 4: Remove VBA server resource using nsradmin:

Note: This step is to be performed ONLY for the VBA you wish to delete. Please take caution to make copy the nsrdb, if this has not been done already.

```
Syntax: nsradmin> d type: NSR VBA Server; name: vbalabnode2x.vba.lab
```

For Example: Below example shows command to delete a VBA called vbalabnode2x.vba.lab
nsradmin> d type: NSR VBA Server; name: vbalabnode2x.vba.lab

```
type: NSR VBA Server;
name: vbalabnode2x.vba.lab;
comment: ;
vCenter Host: vbalabnode2x.vba.lab;
vCenter Web Client Host: ;
Total Capacity: ;
Total Capacity in bytes: ;
Used Capacity: ;
Last Validated Checkpoint: ;
Last Validated Checkpoint Tag: ;
Online: ;
VBA Version: ;
Policy List: ;
Policy Client Mapping: ;
External Proxy Hosts: ;
VBA recover checkpoint tag: ;
configuration error: ;
VBA Internal Proxies: Enabled;
VBA Adhoc Backups: Enabled;
VBA Restrict Transport Mode to Hotadd Only: Disabled;
Staging DDR pool for Disaster recovery from non-DDR devices: ;
Delete? Y
deleted resource id 156.x.xxx.x.x.x.x.xxx.xxx.xxx.xx.xxx.x.x(7)
```

Note: This step may need to be done using offline nsradmin if VBA is NOT responding

STEP 5: Remove client resource for that VBA from NMC

Syntax: nsradmin> d type: nsr client; name : vbalabnode2x.vba.lab

For Example: Below example shows how to delete client for vbalabnode2x.vba.lab

```
nsradmin> d type: nsr client; name : vbalabnode2x.vba.lab
type: NSR client;
name: vbalabnode2x.vba.lab;
server: nw4.vba.lab;
client id: xxxx-xxxxx-xxxxx-xxxx-0xxxxx-xxxxx;
Delete? Y
deleted resource id 153.x.xxx.x.x.x.x.xxx.xx.xxx.xx.xxx.x.x3)
```

STEP 6: Delete the VBA Appliance:

You can now delete the relevant VBA node VM from the vCenter server.

STEP 7: If the External proxy is no longer needed- delete the external proxy virtual machine

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Notes (Restricted):

For VBA that is offline, the networker server will not be able to delete savesets and you may notice savesets showing expired('sumflags' as 'cE')

Primary Product: NetWorker 9.0

Product: NetWorker 8.1, NetWorker 8.2, NetWorker 8.1.1, NetWorker 8.1.2, NetWorker 8.1.3, NetWorker 8.2.1, NetWorker 9.0

Problem Code: Corrective Maintenance;De-Install

Error Code: NA

RCA Status: Complete

Shared: Yes

Bug Tracking Number: NA

Core SFDC ID: 000204064

Article Properties:

Validation Status: Approved

Channels: Customer , Internal App

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