

VOSS Automate Method of Procedure (MOP) for 21.3 Patch Bundle 2 Installation

Release 21.3-PB2

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Post-upgrade steps for Microsoft Environments

Dependencies

• Release 21.3

The supported upgrade path for this Patch Bundle Upgrade is:

```
21.3 => 21.3-PB1 => 21.3-PB2
```

or

21.3 => 21.3-PB2

Patch Overview

- Patch Name: 21.3.PB2-Delta-Bundle-patch.script
- · Features Included: See release notes for detail.
- SHA256 Checksum: e9204fc25f052d14cd03f38a29abec7308695d187341ef6fbab51089ef5f992d

Important Information: PowerShell Proxy Teams Module Update

To upgrade any PowerShell proxies that have already been deployed, perform these steps:

Starting with VOSS Automate version 21.3-PB1, the requirement is MS Teams PowerShell module v4.3.0. If you are upgrading existing PowerShell proxy servers, perform the following steps (on each PowerShell proxy server) to use the supported version of the MS Teams module (v4.3.0).

- 1. Exit any existing PowerShell and PowerShell ISE windows.
- 2. From an elevated (run as Administrator) PowerShell window:

```
Stop-Service WinRM
Uninstall-Module MicrosoftTeams
Install-Module MicrosoftTeams -RequiredVersion 4.3.0 -AllowClobber
Start-Service WinRM
```

3. Verify

Get-Module -ListAvailable -Name MicrosoftTeams

The output should show version 4.3.0

\$cred = Get-Credential

Enter MS Teams tenant admin credentials in the pop-up.

```
Connect-MicrosoftTeams -Credential $cred
Get-CsOnlineUser -ResultSize 1
```

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The output should display the details for one random user.

To install MS Teams PowerShell module on a new PowerShell proxy, perform this step:

1. From an elevated PowerShell session issue the following command:

Install-Module MicrosoftTeams -RequiredVersion 4.3.0

Download Location

The Patch and the MOP are available here:

- Server Name: https://voss.portalshape.com
- Path: Downloads > VOSS Automate > 21.3 > Patches
- Patch Directory: Patch Bundle 2
- Patch File: 21.3-PB2-Delta-Bundle-patch.script
- MOP File (this file): MOP-21.3-PB2-Delta-Bundle-patch.pdf

Important:

- We recommend taking snapshots of all nodes that are part of the cluster before applying the patch to be used for rollback if needed.
- About Adaptations: We recommend verifying the compatibility of any installed adaptations with this
 patch bundle in a lab before installing in production. Some adaptations might need to be re-installed
 post patch bundle installation.
- If you have a Microsoft-only environment and an existing number inventory, a rebuild may be needed.

Contact VOSS to verify and assist in carrying out this step.

• It is recommended that commands in installation steps are run in a terminal opened with the **screen** command.

Install Procedure for a Unified Node Topology

5.1 Download Patch Script and Check

Note: It is recommended that the file download is done prior to the maintenance window.

Download the following file

• 21.3-PB2-Delta-Bundle-patch.script

to the media folder on the primary *unified* node.

5.2 Verify SHA256 checksum

To verify SHA256 checksum for the patch, run the following command on the node the script was downloaded to:

- Command: system checksum media/21.3-PB2-Delta-Bundle-patch.script
- Expected: e9204fc25f052d14cd03f38a29abec7308695d187341ef6fbab51089ef5f992d

5.3 Pre-Installation, Version Check

The release version should be 21.3:

 Log in on the GUI and check the information contained in the menu About > Version > Release. The release version should be 21.3

5.4 Pre-Installation, Security and Health Steps

1. Verify that the primary database node is the active primary node at the time of upgrade.

On the Primary Unified Node, run:

database config

This is to ensure that the node on which the installation will be initiated, has the:

- a. stateStr parameter set to **PRIMARY**
- b. highest priority number (highest priority number could vary depending on cluster layout).

Example output

```
<ip address>:27020:
priority: <number>
stateStr: PRIMARY
storageEngine: WiredTiger
```

2. Validate the system health.

On the primary unified node, run:

cluster status

3. Verify network connectivity, disk status, NTP and that there are no pending Security Updates.

On the primary unified node, run:

cluster check

If there is any sign of the paths below are over 80% full, a clean-up is needed to avoid risk of for example full logs occurring during upgrade. Clean-up steps are indicated next to the paths:

/	(call support if over 80%)
/var/log	(run: log purge)
/opt/platform	(remove any unnecessary files from /media directory)
/tmp	(reboot)

If there are pending Security Updates, then:

On the primary unified node, run:

cluster run all security update

Then reboot all nodes:

cluster run notme system reboot

(If node messages: <node name> failed with timeout are displayed, these can be ignored.)

system reboot

Since all services will be stopped, this takes some time.

4. Shutdown servers and take snapshots from VMWare.

5.5 Patch Installation

On the primary unified node, run:

app install media/21.3-PB2-Delta-Bundle-patch.script

Note: Before the patch installation starts, the user is prompted to:

• Continue with the installation.

Append the --force parameter to remove this prompt.

- Delete or keep the patch script in the media directory after installation.
 - Append the delete-on-success parameter with a yes | no value to the command to remove this prompt.

To remove all prompts, use the command and parameters:

app install media/21.3-PB2-Delta-Bundle-patch.script delete-on-success yes --force

5.6 Post-Upgrade, Security and Health Steps

- 1. On the primary node, verify the cluster status:
 - cluster status

Note: If a message: "mismatched rules" shows on the web proxy firewall service, run:

cluster run webproxy app start services:firewall

- 2. On each node verify security updates, network connectivity, disk status and NTP.
 - cluster check
- 3. If there are pending Security Updates, then run **security update** on all nodes. On the primary node, run:
 - cluster run all security update
- 4. Reboot all nodes:

• cluster run notme system reboot

(If node messages: <node name> failed with timeout are displayed, these can be ignored.)

• system reboot

Since all services will be stopped, this takes some time.

Important:

5. *Only* if the following step was *not* carried out when upgrading to Release 21.3-PB1: On the primary node, run:

• voss migrate_summary_attributes data/InternalNumberInventory

- 6. On the primary node, run:
 - voss migrate_summary_attributes data/MicrosoftTenant

Install Procedure for a Modular Cluster Topology

6.1 Download Patch Script and Check

Note: It is recommended that the file download is done prior to the maintenance window.

Download the following file

• 21.3-PB2-Delta-Bundle-patch.script

to the media folder on primary application node.

To check for this node:

- 1. Log in on a node in your modular cluster.
- 2. To find the *primary application node* in the cluster:

```
$ cluster run all cluster primary role application
```

Record the node entry where is_primary: true, for example:

----- VOSS-UN-1, ip=192.168.100.3, role=webproxy,application, loc=cpt

is_primary: true

6.2 Verify SHA256 checksum

To verify SHA256 checksum for the patch, run the following command on the node the script was downloaded to:

- Command: system checksum media/21.3-PB2-Delta-Bundle-patch.script
- Expected: e9204fc25f052d14cd03f38a29abec7308695d187341ef6fbab51089ef5f992d

6.3 Pre-Installation, Version Check

The release version should be 21.3:

 Log in on the GUI and check the information contained in the menu About > Version > Release. The release version should be 21.3

6.4 Pre-Installation, Security and Health Steps

1. Verify that the primary database node is the active primary node at the time of upgrade.

Have the IP address available of the node determined to be the primary database node. To find the *primary database node* in the cluster:

\$ cluster run all cluster primary role database

Record the node entry IP where is_primary: true, for example:

```
----- VOSS-UN-2, ip=192.168.100.4, role=database, loc=cpt
is_primary: true
This IP address will be used in command parameters during upgrade.
Verify that the primary database node is the active primary node at the time of_
__upgrade.
On the primary application node, run:
**cluster run <primary db IP> database config**
From the output, ensure that the primary database node ``stateStr``
parameter is set to **PRIMARY** and it has the *highest* ``priority:<number>```
(highest priority number could vary depending on cluster layout).
Example output ::
<ip address>:27020:
priority: <number>
stateStr: PRIMARY
storageEngine: WiredTiger
```

2. Validate the system health.

On the primary application node, run:

cluster run all cluster status

3. Verify network connectivity, disk status, NTP and that there are no pending Security Updates.

On the primary application node, run:

cluster run all security check

If there is any sign of the paths below are over 80% full, a clean-up is needed to avoid risk of for example full logs occurring during upgrade. Clean-up steps are indicated next to the paths:

/ (call support if over 80%)
/var/log (run: log purge)
/opt/platform (remove any unnecessary files from /media directory)
/tmp (reboot)

If there are pending security updates, then:

On the primary application node, run:

cluster run all security update

Then reboot all nodes:

cluster run notme system reboot

(If node messages: <node name> failed with timeout are displayed, these can be ignored.)

system reboot

Since all services will be stopped, this takes some time.

4. Shutdown servers and take snapshots from VMWare.

6.5 Patch Installation

On the primary application node, run:

app install media/21.3-PB2-Delta-Bundle-patch.script

Note: Before the patch installation starts, the user is prompted to:

· Continue with the installation.

Append the --force parameter to remove this prompt.

• Delete or keep the patch script in the media directory after installation.

Append the delete-on-success parameter with a yes | no value to the command to remove this prompt.

To remove all prompts, use the command and parameters:

app install media/21.3-PB2-Delta-Bundle-patch.script delete-on-success yes --force

6.6 Post-Upgrade, Security and Health Steps

- 1. On the primary application node, verify the cluster status:
 - cluster status

Note: If a message: "mismatched rules" shows on the web proxy firewall service, run:

cluster run webproxy app start services:firewall

- 2. On each node verify Security Updates, network connectivity, disk status and NTP.
 - cluster check
- 3. If there are pending Security Updates, then run **security update** on all nodes. On the primary application node, run:
 - cluster run all security update
- 4. Reboot all nodes:
 - cluster run notme system reboot

(If node messages: <node name> failed with timeout are displayed, these can be ignored.)

• system reboot

Since all services will be stopped, this takes some time.

Important:

5. *Only* if the following step was *not* carried out when upgrading to Release 21.3-PB1: On the primary application node, run:

• voss migrate_summary_attributes data/InternalNumberInventory

- 6. On the primary application node, run:
 - voss migrate_summary_attributes data/MicrosoftTenant

Install Procedure for a Single Node Cluster Environment

7.1 Download Patch Script and Check

Note: It is recommended that the file download is done prior to the maintenance window.

Download the following file

21.3-PB2-Delta-Bundle-patch.script

to the media folder on the single node.

7.2 Verify SHA256 checksum

To verify SHA256 checksum for the patch, run the following command on the node the script was downloaded to:

- Command: system checksum media/21.3-PB2-Delta-Bundle-patch.script
- Expected: e9204fc25f052d14cd03f38a29abec7308695d187341ef6fbab51089ef5f992d

7.3 Pre-Installation, Version Check

The release version should be 21.3:

• Log in on the GUI and check the information contained in the menu **About** > **Version** > **Release**. The release version should be 21.3

7.4 Pre-Installation, Security and Health Steps

1. Verify that the primary database node is the active primary node at the time of upgrade.

On the single node, run:

database config

This is to ensure that the node on which the installation will be initiated, has the:

- a. stateStr parameter set to **PRIMARY**
- b. highest priority number (highest priority number could vary depending on cluster layout).

Example output

```
<ip address>:27020:
priority: <number>
stateStr: PRIMARY
storageEngine: WiredTiger
```

2. Validate the system health.

On the single node, run:

app status

Note: If a message: "mismatched rules" shows on the web proxy firewall service, run:

app start services:firewall

3. Verify network connectivity, disk status, NTP and that there are no pending Security Updates.

On the single node, run:

diag disk and then security check

If there is any sign of the paths below are over 80% full, a clean-up is needed to avoid risk of for example full logs occurring during upgrade. Clean-up steps are indicated next to the paths:

/	(call support if over 80%)
/var/log	(run: log purge)
/opt/platform	(remove any unnecessary files from /media directory)
/tmp	(reboot)

If there are pending Security Updates, then run:

security update

Then reboot:

system reboot

Since all services will be stopped, this takes some time.

4. Shutdown servers and take snapshots from VMWare.

7.5 Patch Installation

On the single node, run:

app install media/21.3-PB2-Delta-Bundle-patch.script

Note: Before the patch installation starts, the user is prompted to:

· Continue with the installation.

Append the --force parameter to remove this prompt.

• Delete or keep the patch script in the media directory after installation.

Append the delete-on-success parameter with a yes | no value to the command to remove this prompt.

To remove all prompts, use the command and parameters:

app install media/21.3-PB2-Delta-Bundle-patch.script delete-on-success yes --force

7.6 Post-Upgrade, Security and Health Steps

Verify Security Updates, network connectivity, disk status and NTP.

On the single node, run:

- app status
- diag disk
- security check

If there are pending Security Updates, then run security update.

On the single node, run:

security update

Reboot.

On the single node, run:

system reboot

Since all services will be stopped, this takes some time.

Important: Only if the following step was not carried out when upgrading to Release 21.3-PB1:

On the single node, run:

• voss migrate_summary_attributes data/InternalNumberInventory

On the single node, run:

• voss migrate_summary_attributes data/MicrosoftTenant

Post-Checks

Generic System Tests:

- Ensure all services are running on *all* nodes using app status.
- Log in to Administration Portal, go to **About** > **Version** > **Patch Bundle** and ensure that the Patch Bundle number 2 is displayed.
- Log in to the Administration Portal of all the nodes using an administrator account.
- Log in to the Self-service Portal of all the nodes using a Self-service account.
- Log in to the Business Admin Portal on all nodes using an administrator account with a Role configured for access to the Business Admin Portal and verify functionality. (For Role Configuration, please refer to the Business Admin Portal Quickstart Guide).

Post-upgrade steps for Microsoft Environments

Note: These steps do not have to be carried out in a maintenance window.

1. Do a full MS Teams sync.

This is needed to pull in the data from Teams for the updates drivers and schemas due to the PowerShell 4 changes. This applies specifically to changes on CSOnlineUser as well as new policies, emergency, etc.

If you have custom MTLs or syncs, review these for inclusion of new elements supporting in this release. For details on new elements, refer to the *Upgrade Notes for VOSS Automate 21.3 Patch Bundle 1*.

Alternatively, use no MTL for a full sync.

Important: This sync should be run on *all* tenants in the system.

2) For Microsoft-only environments:

If you have a Microsoft-only environment and in particular an inventory containing numbers in the non-"\+" format, an inventory rebuild may be needed. Contact VOSS to verify and assist in carrying out this step.