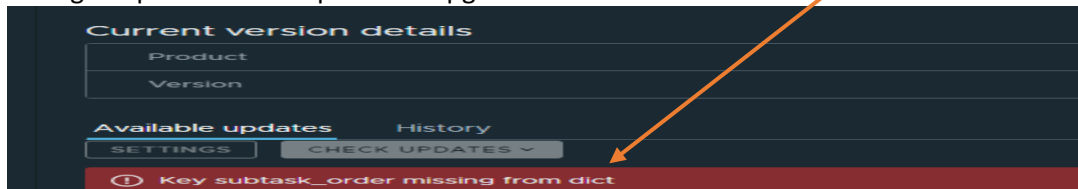


How to upgrade vCenter to version 7.0.2.0200 – May Release

In this post, I will upgrade vCenter to the latest version released last month. When, I tried to upgrade the server using vCenter Server Management user interface, I was getting error (Invalid update error). Tried every possible way to fix but had to resort to command line. Below are various commands used during the process to complete the upgrade.



```
vc.ramlan.ca - PuTTY
login as: root
Pre-authentication banner message from server:
|
| VMware vCenter Server 7.0.2.00100
|
| Type: vCenter Server with an embedded Platform Services Controller
|
End of banner message from server
root@vc.ramlan.ca's password:
Connected to service

* List APIs: "help api list"
* List Plugins: "help pi list"
* Launch BASH: "shell"

Command> software-packages list --staged
[2021-06-01T00:41:00.152] : Packages not staged
Command> software-packages stage --acceptEulas --url https://vapp-updates.vmware.com/vai-catalog/vaim/vmw/8d167796-34d5-4899-be0a-6daade4005a3/7.0.2.00100.latest/
[2021-06-01T00:42:26.152] : UpdateInfo: Using product version 7.0.2.00100 and build 17920168
[2021-06-01 00:42:26,730] : Target VCSA version = 7.0.2.00200
[2021-06-01 00:42:26,730] : Running requirements script....
[2021-06-01T00:42:38.152] : Evaluating packages to stage...
[2021-06-01T00:42:38.152] : Verifying staging area
[2021-06-01T00:42:38.152] : Staging process completed successfully
[2021-06-01T00:42:38.152] : Answers for following questions have to be provided to install phase:
Question:
ID: vmdir.password
Text: Single Sign-On administrator password
Description: For the first instance of the identity domain, this is the password given to the Administrator account. Otherwise, this is the password of the Administrator account of the replication partner.
Allowed values:
Default value:

[2021-06-01T00:42:38.152] : Execute software-packages validate to validate your input
Command> software-packages validate
[2021-06-01T00:43:29.152] : For the first instance of the identity domain, this is the password given to the Administrator account. Otherwise, this is the password of the Administrator account of the replication partner.
Enter Single Sign-On administrator password:

[2021-06-01T00:43:38.152] : Validating software update payload
[2021-06-01T00:43:38.152] : UpdateInfo: Using product version 7.0.2.00100 and build 17920168
[2021-06-01 00:43:38,511] : Running validate script....
[2021-06-01T00:43:43.152] : Validation successful
[2021-06-01T00:43:43.152] : Validation process completed successfully
Command> software-packages list --staged
[2021-06-01T00:44:02.152] :
category: Bugfix
kb: https://docs.vmware.com/en/VMware-vSphere/7.0/rn/vsphere-vcenter-server-70u2b-release-notes.html
```

```
[2021-06-01 00:43:38,511] : Running validate script....
[2021-06-01T00:43:43.152] : Validation successful
[2021-06-01T00:43:43.152] : Validation process completed successfully
Command> software-packages list --staged
[2021-06-01T00:44:02.152] :
category: Bugfix
kb: https://docs.vmware.com/en/VMware-vSphere/7.0/rn/vsphere-vcenter-ser
ver-70u2b-release-notes.html
leaf_services: ['vmware-pod', 'vsphere-ui', 'wcp', 'vlcm']
vendor: VMware, Inc.
name: VC-7.0U2b
size in MB: 5142
tags: []
changesetnumber: 8919831
version_supported: []
productname: VMware vCenter Server
releasedate: May 25, 2021
executeurl: https://my.vmware.com/group/vmware/get-download?downloadGrou
p=VC70U2B
version: 7.0.2.00200
updateversion: True
allowedSourceVersions: [7.0.0.0,]
buildnumber: 17958471
rebootrequired: False
summary: {'id': 'patch.summary', 'translatable': 'In-place upgrade for v
Center appliances.', 'localized': 'In-place upgrade for vCenter appliances.'}
type: Update
severity: Critical
TFF_ISO: False
url: https://vapp-updates.vmware.com/vai-catalog/valm/vmw/8d167796-34d5-
4899-be0a-6daade4005a3/7.0.2.00100.latest/
thirdPartyAvailable: False
nonThirdPartyAvailable: True
thirdPartyInstallation: False
timeToInstall: 0
requiredDiskSpace: {'/storage/core': 5.248487968444824, '/storage/seat':
6.466015625}
serviceIgnoreList: []
[2021-06-01 00:42:38 UTC
Command> software-packages install --staged
[2021-06-01T00:44:24.152] : For the first instance of the identity domain, this
is the password given to the Administrator account. Otherwise, this is the pas
sword of the Administrator account of the replication partner.
Enter Single Sign-On administrator password:

[2021-06-01T00:44:32.152] : Validating software update payload
[2021-06-01T00:44:32.152] : UpdateInfo: Using product version 7.0.2.00100 and b
uild 17920168
[2021-06-01 00:44:32,185] : Running validate script....
[2021-06-01T00:44:37.152] : Validation successful
[2021-06-01 00:44:37,202] : Copying software packages 53/53
[2021-06-01 01:56:09,376] : Running system-prepare script....
[2021-06-01 01:56:15,413] : Running test transaction ....
[2021-06-01 01:56:18,446] : Running prepatch script....
[2021-06-01 01:58:54,789] : Upgrading software packages ....
[2021-06-01T01:59:44.152] : Setting appliance version to 7.0.2.00200 build 1795
8471
[2021-06-01 01:59:44,999] : Running patch script...
[2021-06-01 01:59:44,999] : Running patch script....
[2021-06-01 02:14:48,281] : Starting all services ....
[2021-06-01T02:14:52.152] : Services started.
[2021-06-01T02:14:52.152] : Installation process completed successfully
--- Logging error ---
Traceback (most recent call last):
  File "/usr/lib/python3.7/logging/__init__.py", line 1029, in emit
    self.flush()
  File "/usr/lib/python3.7/logging/__init__.py", line 1009, in flush
    self.stream.flush()
RuntimeError: reentrant call inside <_io.BufferedWriter name='/var/log/vmware/applmgmt/software-packages.log'>
Call stack:
  File "/usr/lib/applmgmt/support/scripts/software-packages.py", line 853, in <module>
    main()
  File "/usr/lib/applmgmt/support/scripts/software-packages.py", line 840, in main
    returncode = args.func(args)
  File "/usr/lib/applmgmt/support/scripts/software-packages.py", line 568, in install
    unstagePackagesEP()
  File "/usr/lib/applmgmt/base/py/vmware/vherd/base/software_update.py", line 1936, in unstagePackagesEP
    deleteDir(STAGEDDIR)
  File "/usr/lib/applmgmt/base/py/vmware/vherd/base/software_update.py", line 1031, in deleteDir
    _processOutput(_runCommand(['bin/rm', '-rf', directory]))
  File "/usr/lib/applmgmt/base/py/vmware/vherd/base/software_update.py", line 307, in _runCommand
    'out %s, err %s', out.name, err.name)
  File "/usr/lib/python3.7/logging/__init__.py", line 1366, in debug
    self._log(DEBUG, msg, args, **kwargs)
  File "/usr/lib/python3.7/logging/__init__.py", line 1514, in _log
    self.handle(record)
  File "/usr/lib/python3.7/logging/__init__.py", line 1524, in handle
    self.callHandlers(record)
  File "/usr/lib/python3.7/logging/__init__.py", line 1586, in callHandlers
    hdlr.handle(record)
  File "/usr/lib/python3.7/logging/__init__.py", line 894, in handle
    self.emit(record)
  File "/usr/lib/python3.7/logging/handlers.py", line 480, in emit
    logging.FileHandler.emit(self, record)
  File "/usr/lib/python3.7/logging/__init__.py", line 1127, in emit
    StreamHandler.emit(self, record)
  File "/usr/lib/python3.7/logging/__init__.py", line 1029, in emit
    self.flush()
  File "/usr/lib/python3.7/logging/__init__.py", line 1009, in flush
    self.stream.flush()
  File "/usr/lib/applmgmt/base/py/vmware/vherd/base/software_update.py", line 424, in __del__
    logger.debug("Destroyed software update state\n")
Message: 'Destroyed software update state\n'
Arguments: ()
Command>
```

Tue 06-01-2021 02:18 AM UTC



Hostname: VC.RAMLAN.CA
Product: VMware vCenter Server
Version: 7.0.2.00200
Build number: 17958471

Current version details

Product: VMware vCenter Server
Version: 7.0.2.00200

Available updates

History

Version	Type	Release Date	Installed On
> 7.0.1.00200	Fix	Dec 16, 2020	Dec 24, 2020, 03:58:37 PM
> 7.0.1.00300	Fix	Feb 1, 2021	Feb 6, 2021, 12:24:24 PM
> 7.0.2.00000	Fix	Mar 8, 2021	Mar 16, 2021, 01:50:41 PM
> 7.0.2.00100	Fix	Apr 26, 2021	May 1, 2021, 06:19:57 PM
> 7.0.2.00200	Fix	May 24, 2021	May 31, 2021, 09:59:44 PM

Tue 06-01-2021 02:19 AM UTC

English Help Actions root

Current version details

Product: VMware vCenter Server
Version: 7.0.2.00200

Available updates

History

SETTINGS CHECK UPDATES

STAGE ONLY STAGE AND INSTALL

Version	Type	Release Date	Reboot Required	Severity
 No applicable update found.				

Tue 06-01-2021 02:20 AM UTC

English Help Actions root



Hostname: VC.RAMLAN.CA
Product: VMware vCenter Server
Version: 7.0.2.00200
Build number: 17958471

Health Status

Overall Health	Alert (Last checked May 31, 2021, 10:20:02 PM)
CPU	Good
Memory	Alert
Database	Good
Storage	Good
Swap	Good

Single Sign-On

Domain	vsphere.local
Status	Running

vm vSphere Client Administrator@VSPHERE.LOCAL

VC.RAMLAN.CA | ACTIONS

Summary Monitor Configure Permissions Datacenters Hosts & Clusters VMs Datastores Networks Linked vCenter Server Systems Extensions Updates

Version: 7.0.2
Build: 17958471
Last Updated: May 31, 2021, 9:59 PM
Last File-Based Backup: May 31, 2021, 7:59 PM

Clusters: 1
Hosts: 2
Virtual Machines: 16

CPU: Free: 28.84 GHz
Used: 3.38 GHz Capacity: 28.89 GHz

Memory: Free: 176.58 GB
Used: 15.38 GB Capacity: 181.89 GB

Storage: Free: 1.81 TB
Used: 894.84 GB Capacity: 2.48 TB

Custom Attributes

Attribute	Value
Backup status	
Last backup	

Health Status

vCenter HA

Mode	--
State	--

Settings

This completes the upgrade.

Thanks

Ram Lan
31st May 2021