

CIFS/clustered ONTAP/Off-box AV

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This is the project page for **clustered ONTAP off-box AV** development.

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Overview

The **clustered ONTAP off-box AV** project covers the engineering work needed to support 7-mode vscan engines on clustered ONTAP. This leverages our AV partners' existing 7-mode support to provide a scalable anti-virus solution for clustered ONTAP. The onboard AV facility has proven to have a number of issues, which has motivated adding support for 7-mode vscanners.

There are two separate components: changes to ONTAP to support off-box AV, and a new "avshim" component, which makes the cluster look similar to a 7-mode filer to the existing AV vendors' products.

- Burt 678504 covers ONTAP development.
- Burt 678515 covers avshim development.

Specs

- Off-box AV ERRD
- Clustered ONTAP Off-box AV Architecture Specification
- Clustered ONTAP Off-box AV Functional Specification
- Clustered ONTAP off-box "avshim" Functional Specification
- File:Clustered VSCAN API documentation.docx
- Design specs
 - UI Config
 - VScanner Protocol
 - Connection Manager
 - On-Access VScan operation
- Illustrations:
 - Structural overview (http://web.btc.netapp.in/~mankawal/offbox_vscan/offbox_vscan.structural.docx)
 - Functional overview (http://web.btc.netapp.in/~mankawal/offbox_vscan/Operation-Flow%5b1%5d.Scanning%20operations.docx)
 - NBlade operations (http://web.btc.netapp.in/~mankawal/offbox_vscan/Operation-Flow%5b1.1%5d%20NBlade-operations%20.docx)

TOI

- NGS TOI SN.1 Webex (http://ngs-web.corp.netapp.com/service_readiness/product_ready/np_i_toi/software/data_ontap/8/8.2.1/Day%202/102413_TOI_Data_ONTAP_8.2.1_Part_1.arf) mp4 (http://ngs-web.corp.netapp.com/service_readiness/product_ready/np_i_toi/software/data_ontap/8/8.2.1/Day%202/102413_TOI_Data_ONTAP_8.2.1_Part_1.mp4)
- **Best Practices and Guidelines**
- KB article for Error: vscan.rdbUpdRegister.failed (<https://kb.netapp.com/support/index?page=content&actp=LIST&id=S:2018219>)

Related Documents

- 7-mode vscan info
- AVSHIM Build Environment

Development

SN.1

Following are the master burtis for ONTAP and OFFTAP components.

- Burt 678504 covers ONTAP development.
- Burt 678515 covers avshim development.

SN.1 development is divided into two chunks. Functionality covered as part of chunk 1 and the unit testing done for the same is captured here. Chunk 2 functionality and unit test details are here.

FS.x

Following enhancements are being considered post SN.1.

- vservers DR support (FS.0 Committed)
- NFS support
- On-demand scanning support
- 7-mode compatible virus scanning post close response (burt738310)
- Enhancement to deny creation of new files when no virus scanners are connected (burt311306)

QA Page

- QA Page and Documents

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- This page was last modified on 29 October 2013, at 22:15.