

Guide for System Center Management Pack to Detect CryptoLocker

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Guide for System Center Management Pack to Detect CryptoLocker

This guide was written based on version 1.0.0.0 of Inside Technologies - Detect CryptoLocker.

Guide History

Release Date	Changes
April 3 rd , 2015	First release

Getting Started

In this section:

Supported Configurations

Prerequisites

Scope

How Works

What Kind of Extension?

Before Start

Supported Configurations

This Management Pack is designed for the following versions of System Center Operations Manager:

• System Center Operations Manager 2012 R2 UR5

Prerequisites

As a best practice, you should import the Windows Server Management Pack for the operating system you are using.

Scope

CryptoLocker is a virus that encrypt all of your files with a hard key locker. Targets are Office docs, images, pdf and videos. The only way to rescue your documents is pay the unlock key but this is not suggest.

When a user run the virus, all files into mapped drive are locked.

With Detect CryptoLocker Management Pack you can prevent this behavior for all File Server with share folders enabled.

How Works

If your File Server has a file with a potential risk extension, the automatic recovery task will stop three important services of File Server to avoid the total loss of data.

Server: this service manage File & Printing Sharing role. This service will be stopped to block files encryption.

DFS: this service manage DFS Namespace. This service will be stopped to because there's a dependencies with Server service.

DFSR: this service manage replica between servers. This service will be stopped to avoid the replica of bad files.

What Kind of Extension?

The extension under monitor are: .cryptolocker, .encrypted. These are the most important format. For your information there are many others type of virus that use random extension, this means that is not possible detect all the critical extensions.

Before Start

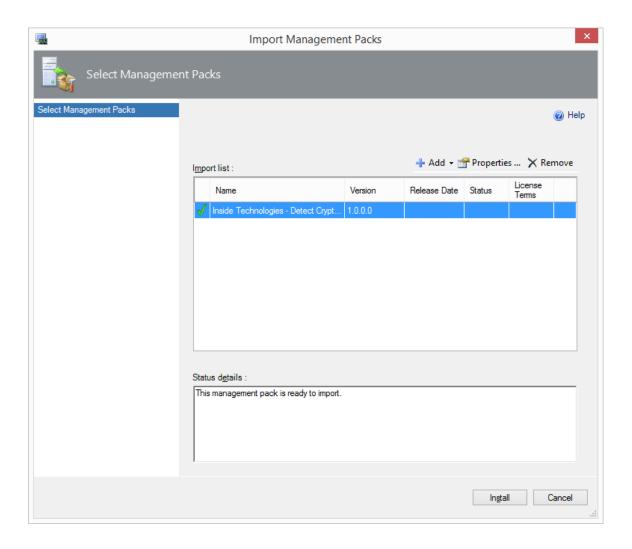
Detect CryptoLocker MP is not an antivirus and cannot delete corrupted files. Cannot be guarantee a faster detect prevention, in particular case if File Server is very large.

The MP owner is not responsible of any kind of data loss or other issues.

Deployment

Setup

Download the MP and import it into your Operations Manager



Configuration

Enable Object Discovery

This Management Pack is disabled by default. To enable server discovery is necessary create a registry key into all the servers that you want monitor.

Create a new key called Inside Technologies into HKLM\Software

Create a new DWORD32 called CryptoLockerEnabledMonitor with value 1

To disable monitoring, change the value to 0 or remove DWORD.

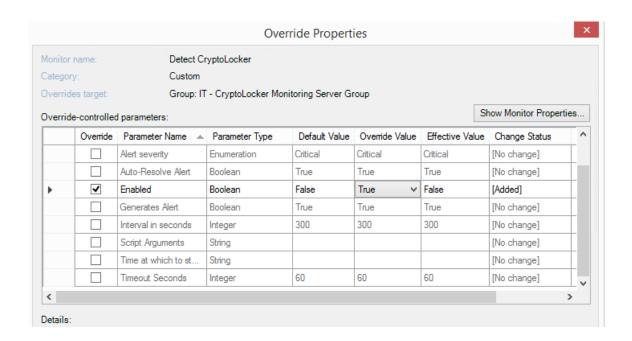
Detection is every 3600 seconds. All the servers are included into a Group called **IT - CryptoLocker Monitoring Server Group**. When the objects are discovered you will see them with the View Group Members.



Enable Monitor Rule

When the server is discovered it will be possible enable the Monitor Unit from Monitors view. Find the Detect CryptoLocker monitor into Windows Server scope and override the rule for the group IT - CryptoLocker Monitoring Server Group.

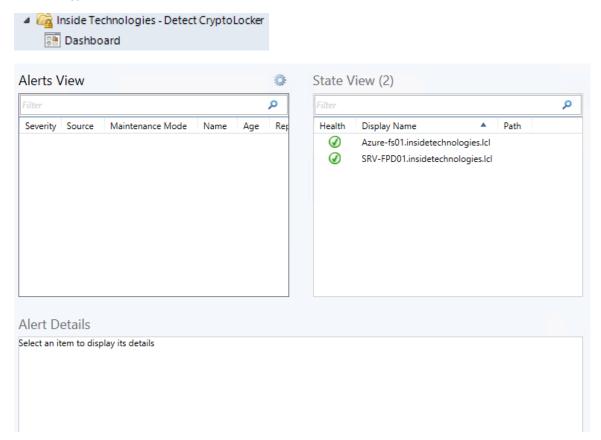
Target	Туре	Inherited From	Management Pack	Enabled by Default
△ IT - CryptoLocker Monitoring Server Group				
	Aggregate Rollup	Object	Health Library	Yes
■ Mailability	Aggregate Rollup	Object	Health Library	Yes
■ Configuration	Aggregate Rollup	Object	Health Library	Yes
Performance	Aggregate Rollup	Object	Health Library	Yes
	Aggregate Rollup	Object	Health Library	Yes
 Detect CryptoLocker 	Timed Script Two S	(Not inherited)	Inside Technologies - Detect CryptoLo	No



From here it's also possible change the execution time (by default the script running every 5 minutes).

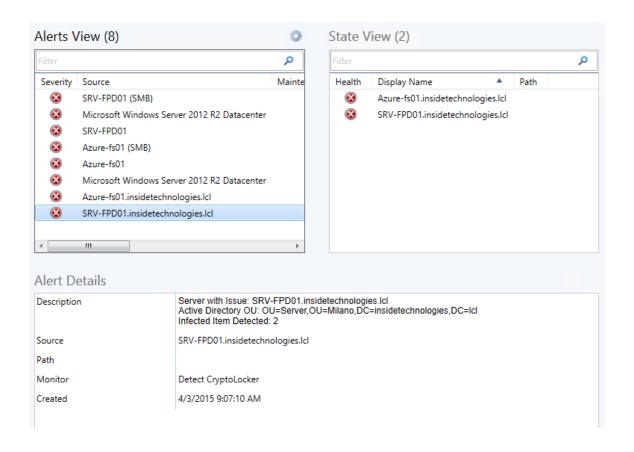
Dashboard

Management Pack contains a view folder into Monitoring pane, called Inside Technologies – Detect CryptoLocker.



Dashboard gives you a view about all the critical new alerts of all servers into **IT - CryptoLocker Monitoring Server Group**, with the possibility to see the details of objects.

When a file with a potential extension will be detected, the MP will show a message error.



Resolution Actions

The Management Pack doesn't remove the infected items so the IT Admin must do it! After cleaning it will allowed restart the services:

- DFS Namespace
- DFS Replica
- Server

Appendix: Known Issues and Release Notes

Extensions

The MP detect only .cryptolocker and .encrypted extensions. If you discover a new standard extension, send me a feedback from module into my web site.

Performance

Make a test before implement the MP in production. Continuous item's discovery could reduce the performance of File Server. If there are too many files could be better grow the Execution Time.