

Deep Security Solution Low Level Document

for

AU Small Finance bank

Low Level Document



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Gigabit History

Gigabit Technologies is an 10 Years Old IT Consulting & Professional IT Services company with an objective to help companies in the mid space market (SME) & Large Enterprises to focus on their business and providing Assistance and support for Implementing Security achieve solutions to their business goals by harnessing the power of Information Technology and using IT as an enabler for continuous growth.

We are committed to providing you with quality solutions that are on time and within budget. Our solutions enables organizations assure the security of their business by protecting the information and the underlying infrastructure upon which the business relies on.

We at Gigabit Technologies believe that the success of any IT solution is not simply based on the technical aspects and advantages of that solution, but needs to be built on the core foundations of people, industry based standards, processes and best practices. Backed with our quality processes and commitment to deliver, Gigabit Technologies provides clients with quality solutions at cost effective rates.

Scope

This document seeks to define the Low Level functionality of the Deep Security Solution in as much detail as possible. Based on our deployment experience we will share the deployment architecture based on the best practices and the placement of various components in a manner which will enhance the functionality of the solution and ensure smooth operations



Deep Security Products Overview

Virtualization has already transformed the data centre and now, organizations are moving some or all of their workloads to private and public clouds. If you're interested in taking advantage of the benefits of hybrid cloud computing, you need to ensure you have security built to protect all of your servers, whether physical, virtual, or cloud. In addition, your security should not hinder host performance and virtual machine (VM) density or the return on investment (ROI) of virtualization and cloud computing. Trend Micro Deep Security provides comprehensive security in one solution that is purpose-built for virtualized and cloud environments so there are no security gaps or performance impacts.

Multiple security controls managed from a single dashboard

Deep Security features integrated modules including anti-malware, predictive machine learning, web reputation, firewall, intrusion prevention, integrity monitoring, application control, and log inspection to ensure server, application, and data security across physical, virtual, and cloud environments. Deep Security can be deployed as a single, multifunction agent across all environments and simplifies security operations with a single management dashboard for all capabilities. You can use Trend Micro Control Manager as your dashboard, or a third-party system such as VMware vRealize Operations, Splunk, HP ArcSight, or IBM QRadar.

Proposed Deep Security component with Key benefits

The Deep Security anti-malware module provides agent computers with both real-time and on-demand protection against file-based threats, including malware, viruses, Trojans, and spyware. To identify threats, the anti-malware module checks files on the local hard drive against a comprehensive threat database. The anti-malware module also checks files for certain characteristics, such as compression and known exploit code.

Portions of the threat database are hosted on Trend Micro servers or stored locally as patterns. Deep Security Agents periodically download anti-malware patterns and updates to ensure protection against the latest threats.

Following are the key benefit for Anti-Malware:

- Behaviour Monitoring
- Predictive Machine Learning
- Real-Time Scan
- Schedule Scan



DOCUMENT PURPOSE

THE PURPOSE OF THIS DOCUMENT IS TO DESCRIBE THE LOW LEVEL (DETAILED) SOLUTION DESIGN FOR THE IMPLEMENTATION OF Trend Micro Deep Security Management WITHIN THE Havells NETWORK. THE LOW-LEVEL SOLUTION DESIGN WILL:

COMMUNICATE CONFIGURATION AND DESIGN DETAIL TO IT SOLUTION TO ALL STAKEHOLDERS
PROVIDE TRACEABILITY OF THE SOLUTION BACK TO BUSINESS REQUIREMENTS AND DOMAIN ARCHITECTURE

AUDIENCE

INTENDED AUDIENCE OF THIS DOCUMENT IS: ARCHITECTS/DESIGNERS
PROJECT AND SOLUTION DELIVERY MANAGERS

REFERENCE DOCUMENT

	DOCUMENT	
REFERENCE	NAME	AUTHOR/URL
R1	ADMINISTRATOR GUIDE	https://help.deepsecurity.trendmicro.com/20_0/on-premise/welcome.html

Bill of Material

TrendMicro BOM for AU Bank	Quantity
Deep Security Enterprise per Server (VM) for Five Years	1100
Telephonic and Remote Support & 10 complimentary health check-ups half yearly in 5 Years order	1
Deep Security Certified Professional 3 Day Training for 2 People	1
2 Health Check-up to validate the deployment as per the best practices directly by Trend Micro	
Trend Micro Server Protect for Storage per TB with Five Year Support	



Key Components



Deep Security Manager

The Deep Security Manager (or DSM) manages the Deep Security environment in the enterprise. It's a single dashboard and management console for all Deep Security components. DSM is used for policy configuration and monitoring events from the console. The Deep Security Manager console is reachable on port 4119 TCP.

Deep Security Relay

Deep Security Relays are responsible for retrieving Security Updates from Trend Micro and distributing them to Deep Security Manager and Agents, on your protected computers. You must have at least one Deep Security Relay in your environment.

You can co-locate the Deep Security Relay on the same host as Deep Security Manager or install it on a separate computer.

Deep Relay Agents listen on port 4122 TCP port.

Deep Security Agent

Deep Security Agents are the main I/O processing component in Deep Security that implements all protection technologies for the computers:

Database

Database is a collection of related data and data is a collection of facts and figures that can be processed to produce information. Mostly data represents recordable facts. Database stores data in such a way that it becomes easier to retrieve, manipulate, and produce information data base is reachable with all Trend Applications on port 1433

SPS Server

Smart Protection Serve is a next-generation, in-the-cloud based, advanced protection solution. The technology works by off loading a large number of malware prevention signatures and lists that were previously stored on endpoints to Trend Micro Smart Protection Server. SPS is reachable for Apex one clients on port 5275,5274,443,80



Servers Details (DC +DR)

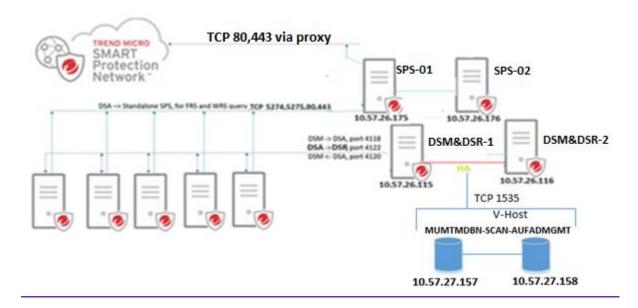
<u>DC</u>

S NO	Trend Application Role	IP Address	Operating System
1	Deep Security Server(Node1)	10.57.26.115	RHEL7
2	Deep Security Server(Node2)	10.57.26.116	RHEL7
3	Smart Protection Server Node1 + Node2	10.57.26.175 10.57.26.176	Trend Micro own OS Linux based
4	Data base Server	10.57.27.157 10.57.27.158	Oracle database cluster

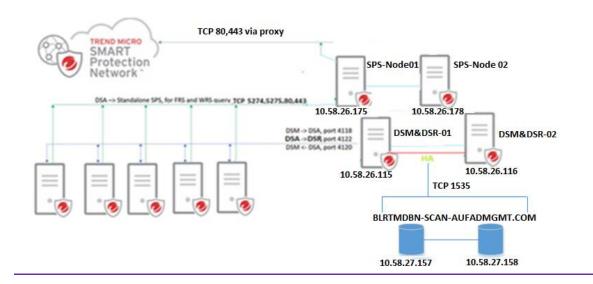
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Low Level Architecture diagram DC



Low Level Architecture diagram DR

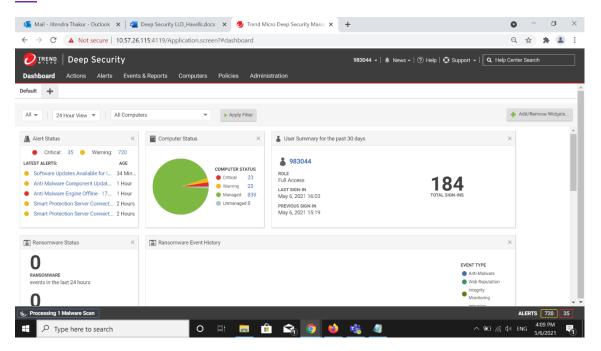


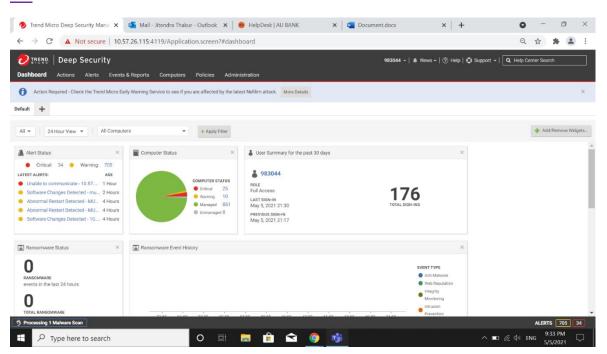


Configurations and Policies

Product Dashboard

DC

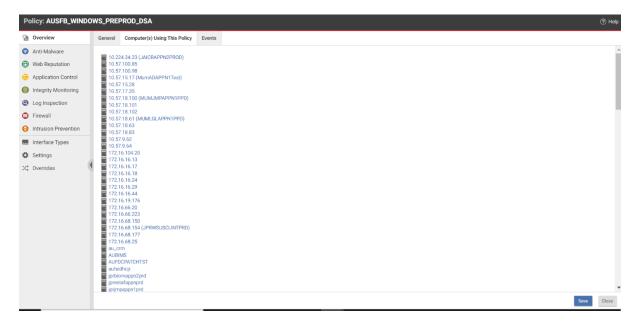




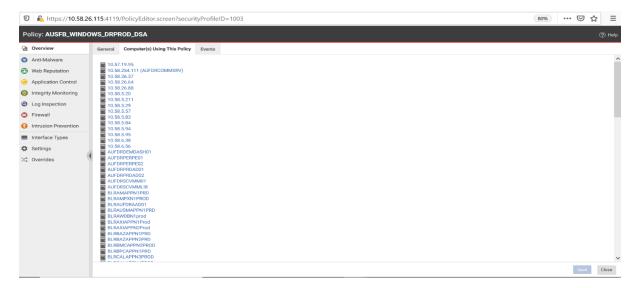


Computers in Policy

DC



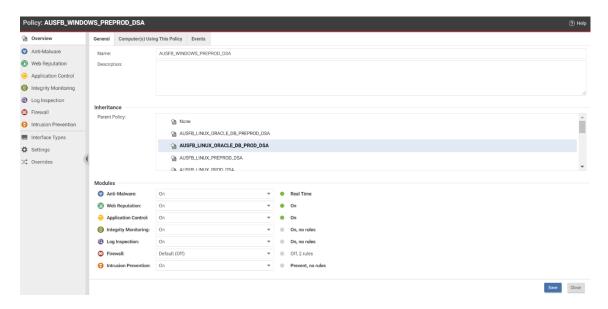
<u>DR</u>

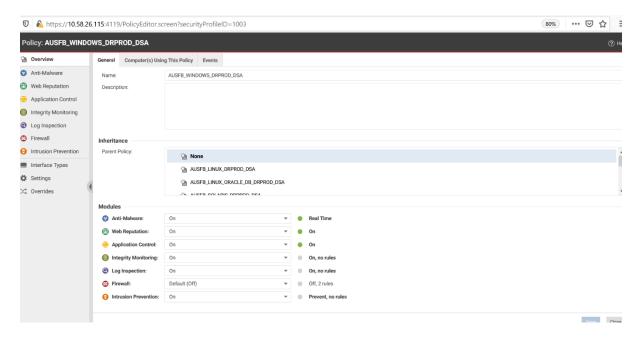




Modules enabled in policy.

DC

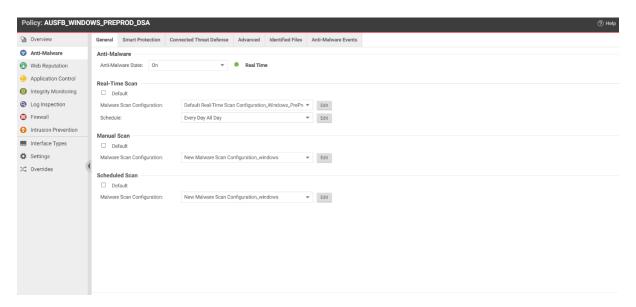


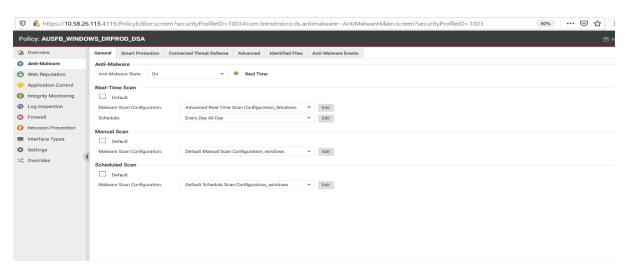




Scan Settings

DC

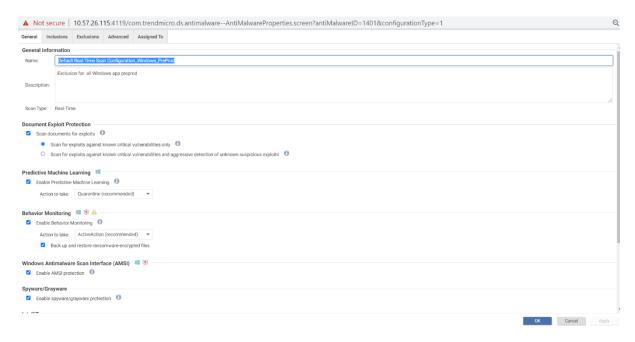


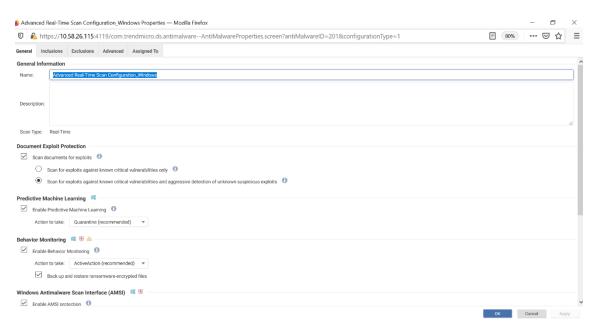




Scanning profile settings.

DC

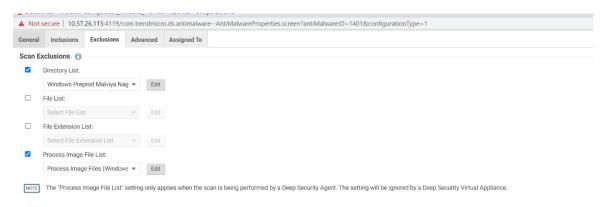


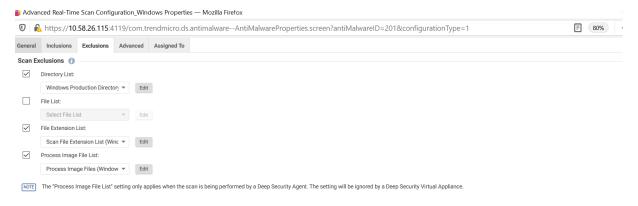




Scan Exclusion settings

DC

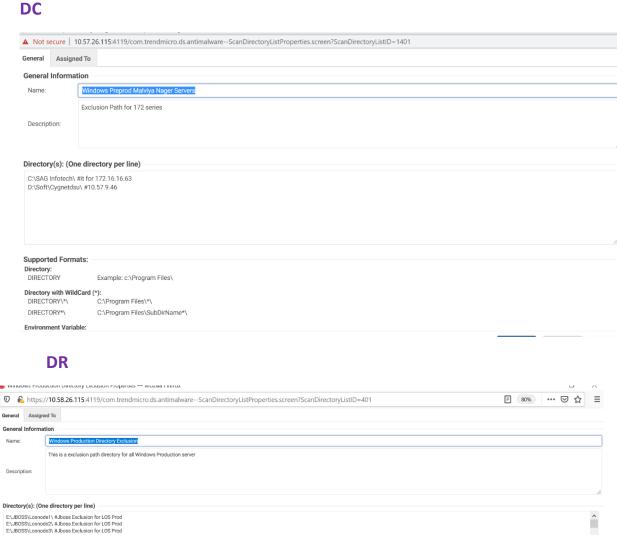




OK Cancel Apply



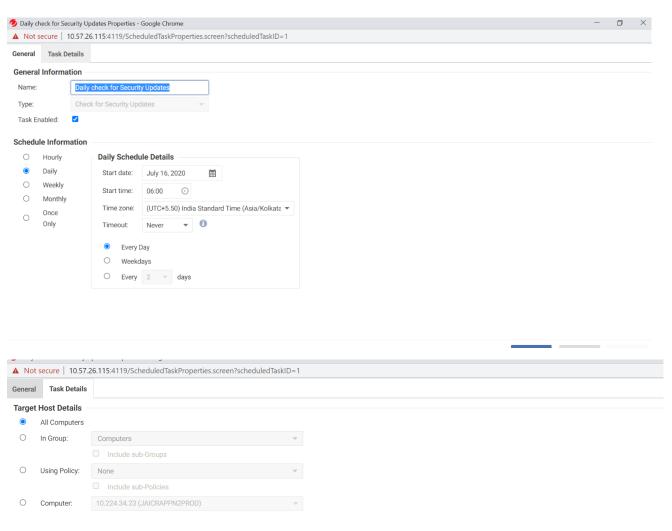
Exclusions



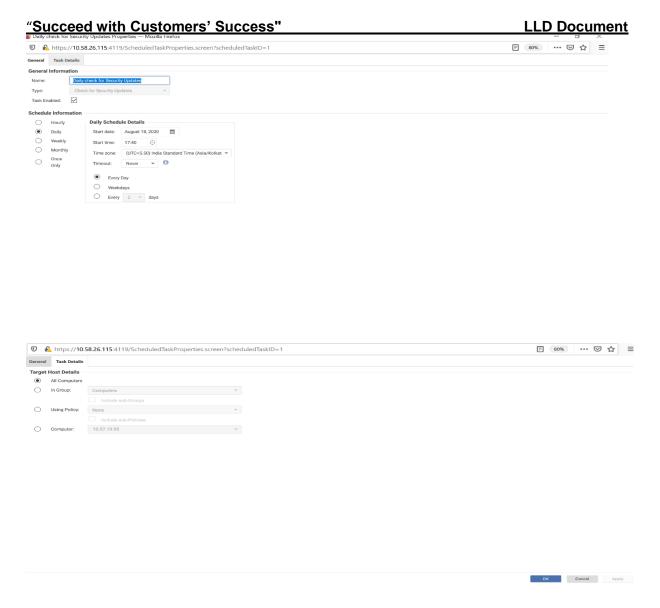


Security update settings.

DC







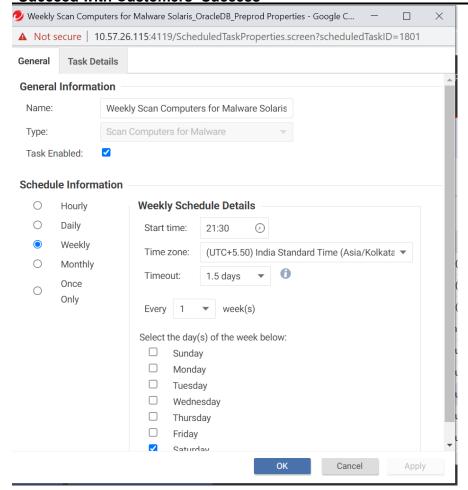
Schedule Scan Settings.

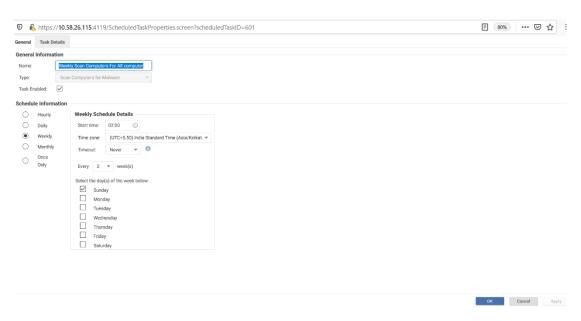
DC



"Succeed with Customers' Success"

LLD Document





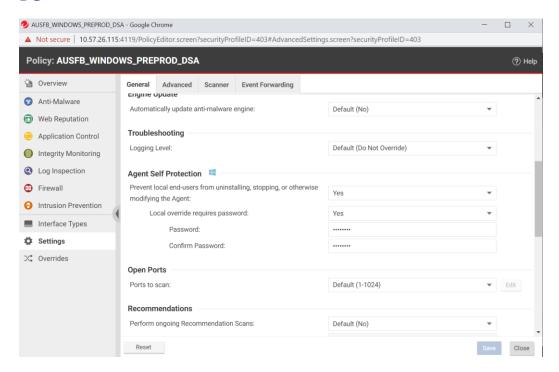




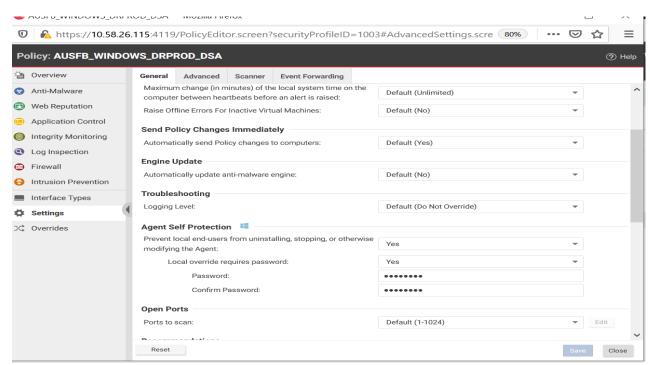


Temper protection password

DC



DR

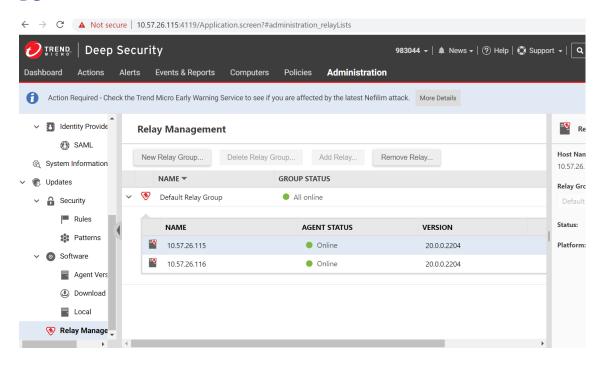


YOUR NEXT GENERATION IT PARTNER

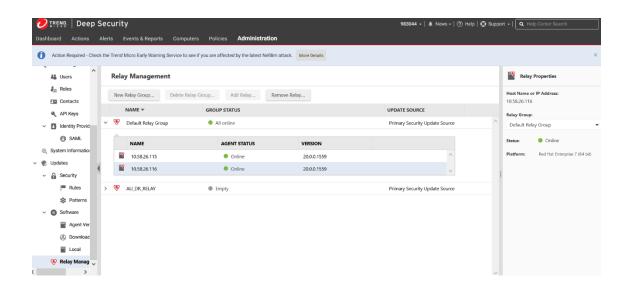


Relay Settings

DC



Relay Settings



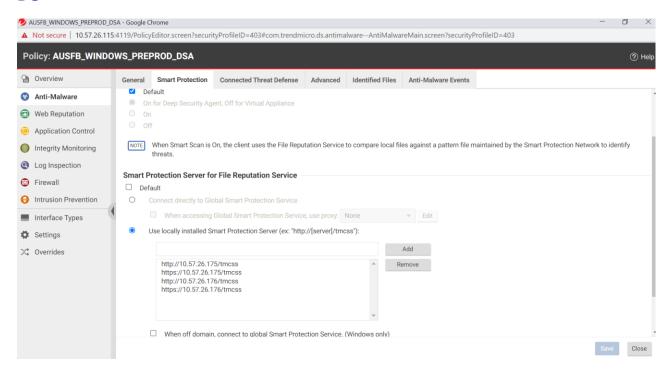


"Succeed with Customers' Success"

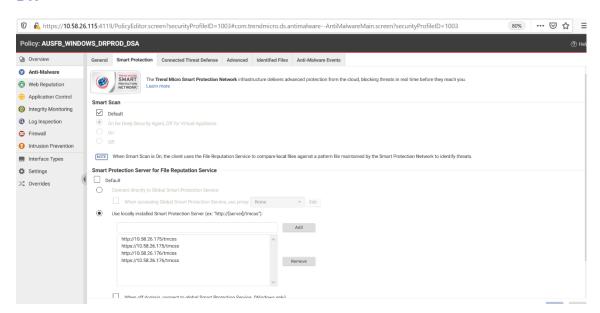
LLD Document

SPS Server Integration.

DC



SPS Server Integration.





Thank You for this engagement.



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