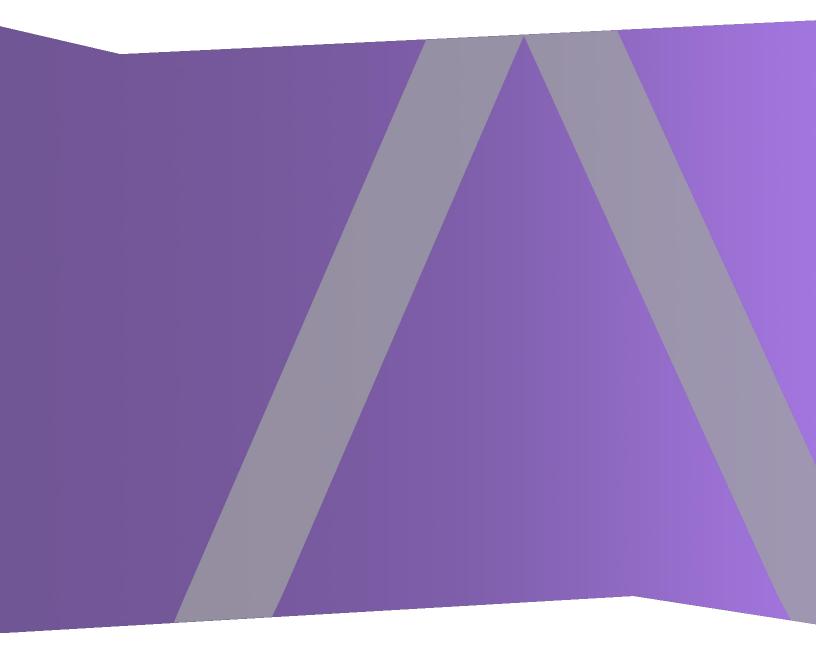


Deployment Guide

for Version 11.1



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August 2018

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The Basics

This guide describes the basic requirements of a NetWitness Suite deployment and outlines optional scenarios to address needs of your enterprise. Even in small networks, planning can ensure that all goes smoothly when you are ready to bring the hosts online.

Note: This document refers to several additional documents available on RSA Link. Go to the Master Table of Contents for NetWitness Logs & Packets 11.x to find all NetWitness Suite 11.x documents.

There are many factors you must consider before you deploy NetWitness Suite. The following items are just some of these factors. You need to estimate growth and storage requirements when you consider these factors.

- The size of your enterprise (that is, the number of locations and people that will use NetWitness Suite.
- The volume of packets and logs you need to process.
- The performance each NetWitness Suite user role needs to do their jobs effectively.
- The prevention of downtime (that is, how to avoid a single point of failure).
- The environment in which you plan to run NetWitness Suite
 - RSA Appliances (software running on hardware supplied by RSA)
 See the RSA NetWitness® Suite Physical Host Installation Guide for detailed instructions on how to deploy RSA Appliances.
 - Software Only provided by RSA:
 - On-Premises (On-Prem) Virtual Hosts See the *RSA NetWitness*® *SuiteVirtual Host Installation Guide* for detailed instructions on how to deploy on-prem virtual hosts.
 - VCloud:
 - Amazon Web Services (AWS)
 See the RSA NetWitness® SuiteAWS Deployment Guide for detailed instructions on how to deploy virtual hosts in AWS.
 - Azure

See the *RSA NetWitness*® *SuiteAzure Deployment Guide* for detailed instructions on how to deploy virtual hosts in Azure.

Basic Deployment Process

Before you can deploy NetWitness Suite you need to:

- Consider the requirements of your enterprise and understand the deployment process.
- Have a high-level picture of the complexity and scope of a NetWitness Suite deployment.

Process

The components and topology of a NetWitness Suite network can vary greatly between installations, and should be carefully planned before the process begins. Initial planning includes:

- Consideration of site requirements and safety requirements.
- Review of the network architecture and port usage.
- Support of group aggregation on Archivers and Concentrators, and virtual hosts.

When ready to begin deployment, the general sequence is:

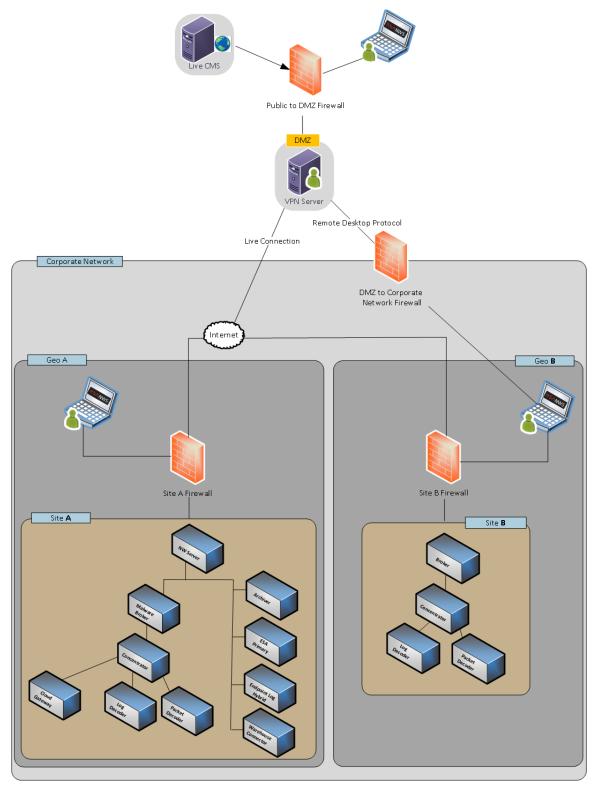
- For RSA Appliances:
 - 1. Install appliances and connect to the network as described in the RSA NetWitness® Suite Hardware Setup Guides and the *RSA NetWitness*® *Suite Physical Host Installation Guide*.
 - 2. Set up licensing for NetWitness Suite as described in the *RSA NetWitness*® *Suite Licensing Guide*.
 - 3. Configure individual appliances and services as described in *RSA NetWitness*® *Suite Host and Services Getting Started Guide*. This guide also describes the procedures for applying updates and preparing for version upgrades.
- For On-Prem virtual hosts, follow the instructions in the *RSA NetWitness*® *Suite Virtual Host Setup Guide*.
- For AWS, follow the instructions in the RSA NetWitness® Suite AWS Deployment Guide.
- For Azure, follow the instructions in the RSA NetWitness® Suite Azure Deployment Guide.

When updating hosts and services, follow recommended guidelines under the "Running in Mixed Mode" topic in the *RSA NetWitness Suite Host and Services Getting Started Guide*.

You should also become familiar with Hosts, Host Types, and Services as they are used in the context of NetWitness Suite also described in the *RSA NetWitness Suite Host and Services Getting Started Guide*.

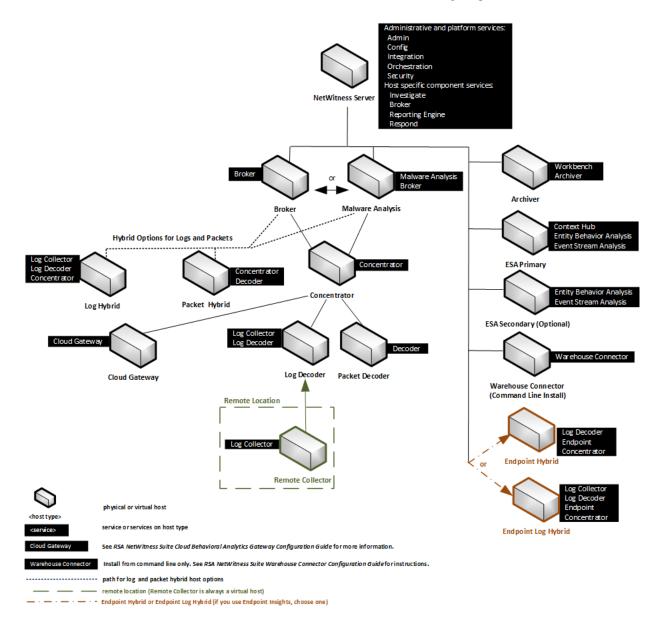
NetWitness Suite High-Level Deployment Diagram

The following diagram illustrates a basic, multi-site NetWitness Suite Deployment.



RSA NetWitness Suite Detailed Host Deployment Diagram

The following diagram is an example of a NetWitness Suite deployment hosted on physical or virtual machines. For instructions on how to install NetWitness Suite see the *Physical Host Installation Guide*, *Virtual Host Installation Guide*, *AWS Deployment Guide*, or *Azure Deployment Guide*. Go to the Master Table of Contents for NetWitness Logs & Packets 11.x to find all NetWitness Suite 11.x documents.



RSA NetWitness[®] Suite Host Deployment

Network Architecture and Ports

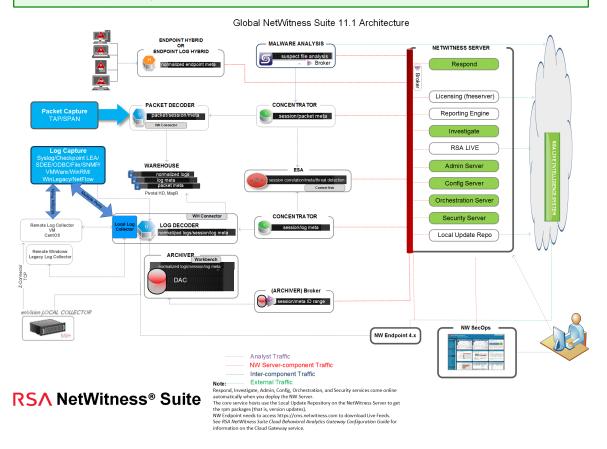
Refer to the following diagram and port table to ensure that all the relevant ports are opened for components in your NetWitness Suite deployment to communicate with each other.

See <u>NetWitness Endpoint Insights Architecture</u> at the end of this topic for individual Endpoint Architectural diagrams.

NetWitness Suite Network Architecture Diagram

The following diagram illustrates the NetWitness Suite network architecture including all of its component products.

Note: NetWitness Suite core hosts must be able to communicate with the NetWitness Server (Primary Server in a multiple server deployment) through UDP port 123 for Network Time Protocol (NTP) time synchronization.



Comprehensive List of NetWitness Suite Host and Service Ports

Note: 1.) For ports used in event collection through the NetWitness Logs, see the "The Basics" in the *RSA NetWitness Suite Log Collection Deployment Guide*. Go to the Master Table of Contents for NetWitness Logs & Packets 11.x to find all NetWitness Suite 11.x documents.

This section contains the port specifications for the following hosts.

NW Server Host	Log Collector Host
Archiver Host	Log Decoder Host
Broker Host	Log Hybrid Host
Concentrator Host	Malware Host
Endpoint Hybrid/Endpoint Log Hybrid Host	Packet Decoder Host
Event Stream Analysis Host	Packet Hybrid Host

NW Server Host

Source Host	Destination Host	Destination Ports	Comments
Admin Workstation	NW Server	TCP 443, 80	nginx - NetWitness UI
NW Hosts	NW Server	TCP 443	RSA Update Repository
Admin Workstation	NW Server	TCP 15671	RabbitMQ Management UI
NW Hosts	NW Server	TCP 15671	RabbitMQ Management UI
Admin Workstation	NW Server	TCP 22	SSH
NW Hosts	NW Server	TCP 4505, 4506	Salt Master Ports
NW Server	NW Server	TCP 50003, 50103, 56003	Broker Ports
NW Server	NW Server	TCP 5671	RabbitMQ- amqp
NW Hosts	NW Server	TCP 5671	RabbitMQ- amqp
NW Server	NW Server	UDP 50514	Audit Ports
NW Server	NW Server	TCP 7000, 7003, 7009, 7010	Launch Ports

Source Host	Destination Host	Destination Ports	Comments
NW Server	NW Server	TCP 50006, 50106, 56006	NetWitness Appliance Ports
NW Hosts	NW Server	UDP 123	NTP
NW Hosts	NW Server	TCP 27017	MongoDB
NW Server	NW Server	UDP 123	NTP
NW Server	NFS Server	TCP 111 2049 UDP 111 2049	iDRAC Installations
NW Server	NW Endpoint	TCP 443, 9443	For NW Endpoint 4.x integrations

Source Host	Destination Host	Destination Ports	Comments
Admin Workstation	Archiver	TCP 15671	RabbitMQ Management UI
Archiver	NW Server	TCP 15671	RabbitMQ Management UI
Admin Workstation	Archiver	TCP 22	SSH
NW Server	Archiver	TCP 56008 (SSL), 50008 (Non- SSL), 50108 (REST)	Archiver Application Ports
NW Server	Archiver	TCP 56006 (SSL), 50006 (Non- SSL), 50106 (REST)	NetWitness Appliance Ports
NW Server	Archiver	TCP 5671	RabbitMQ (AMQPS) message bus for all NW hosts.
NW Server	Archiver	TCP 514, 6514, 56007 (SSL), 50007 (Non-SSL), 50107 (REST), UDP 514	Workbench Application Ports
Archiver	Archiver	UDP 50514	Audit Data
Archiver	Archiver	UDP 123	NTP
Archiver	NFS Server	TCP 111 2049 UDP 111 2049	iDRAC Installations

Archiver Host

Broker Host

Source Host	Destination Host	Destination Ports	Comments
Admin Workstation	Broker	TCP 15671	RabbitMQ Management UI
Broker	NW Server	TCP 15671	RabbitMQ Management UI
Admin Workstation	Broker	TCP 22	SSH
NW Server	Broker	TCP 56003 (SSL), 50003 (Non-SSL), 50103 (REST)	Broker Application Ports
NW Server	Broker	TCP 56006 (SSL), 50006 (Non-SSL), 50106 (REST)	NetWitness Appliance Ports
NW Server	Broker	TCP 5671	RabbitMQ (AMQPS) message bus for all NW hosts.
Broker	Broker	UDP 50514	Audit Data
Broker	Broker	UDP 123	NTP
Broker	NW Server	TCP 111 2049 UDP 111 2049	iDRAC Installations

Source Host	Destination Host	Destination Ports	Comments
Admin Workstation	Concentrator	TCP 15671	RabbitMQ Management UI
Concentrator	NW Server	TCP 15671	RabbitMQ Management UI
Admin Workstation	Concentrator	TCP 22	SSH
NW Server	Concentrator	TCP 56005 (SSL), 50005 (Non-SSL), 50105 (REST)	Concentrator Application Ports
Malware	Concentrator	TCP 56005 (SSL)	Malware
NW Server	Concentrator	TCP 56006 (SSL), 50006 (Non-SSL), 50106 (REST)	NetWitness Appliance Ports
NW Server	Concentrator	TCP 5671	RabbitMQ (AMQPS) message bus for all NW hosts.
Concentrator	NFS Server	TCP 111 2049 UDP 111 2049	iDRAC Installations
Concentrator	Concentrator	UDP 50514	Audit Data
Concentrator	Concentrator	UDP 123	NTP

Concentrator Host

Endpoint Hybrid or Endpoint Log Hybrid

Source Host	Destination Host	Destination Ports	Comments
Endpoint 11.1 Agent	Endpoint Hybrid or Endpoint Log Hybrid	TCP 443	NGINX HTTPS
Endpoint 11.1 Agent	Log Decoder or Virtual Log Collector	TCP 514 (Syslog) UDP 514 (Syslog) TLS 6514	Windows Log Collection
Endpoint Server	Log Decoder (External)	TCP 50102, 56202, 50202	To forward meta to an external Log Decoder
NW Server	Endpoint Hybrid or Endpoint Log Hybrid	TCP 7050	UI web traffic
Endpoint Hybrid or Endpoint Log Hybrid	NW Server	TCP 5672	Message Bus
Endpoint Server	NW Server	TCP 27017	MongoDB

Endpoint Hybrid or Endpoint Log Hybrid with NetWitness Endpoint 4.4

Source Host	Destination Host	Destination Ports	Comments
NW Console Server (4.4.0.2 or later)	Endpoint Hybrid	TCP 443	NGINX HTTPS
Meta Service	Log Decoder	TCP 50102, 56202, 50202	NGINX HTTPS To forward meta to a Log Decoder Endpoint Hybrid or Endpoint Log Hybrid with NWE 4.4

Source Host	Destination Host	Destination Ports	Comments
Admin Workstation	ESA	TCP 15671	RabbitMQ Management UI
ESA	NW Server	TCP 15671	RabbitMQ Management UI
Admin Workstation	ESA	TCP 22	SSH
NW Server, ESA Secondary	ESA Primary	TCP 27017	MongoDB
NW Server	ESA Primary	TCP 7005	Context Hub Launch Port - (ESA Primary)
NW Server	ESA	TCP 50030 (SSL)	ESA Application Port
NW Server	ESA	TCP 50035 (SSL)	ESA Application Port
NW Server	ESA	TCP 50036 (SSL)	ESA Application Port
NW Server	ESA	TCP 5671	RabbitMQ (AMQPS) message bus for all NW hosts.
ESA	cms.netwitness.com	TCP 443	Live
ESA	NFS Server	TCP 111 2049 UDP 111 2049	iDRAC installations
ESA	Active Directory	636 (SSL)/389 (Non- SSL)	
NW Server	ESA	80 (HTTP)/ 443 (HTTPS)(REST)	
ESA Primary	Archer	443 (SSL)/80 (Non- SSL)	
ESA Primary	ESA Primary	TCP 7007	Launch Port

Event Stream Analysis (ESA) Host

Source Host	Destination Host	Destination Ports	Comments
ESA Primary	ESA Primary	UDP 50514	Audit Data
ESA Primary	ESA Primary	UDP 123	NTP

Source Host	Destination Host	Destination Ports	Comments
Admin Workstation	Log Collector	TCP 15671	RabbitMQ Management UI
Log Collector	NW Server	TCP 15671	RabbitMQ Management UI
Admin Workstation	Log Collector	TCP 22	SSH
Log Collector	Log Event Sources	See <i>Log Collection Configuration Guide</i> . Go to the Master Table of Contents for NetWitness Logs & Packets 11.x to find all NetWitness Suite 11.x documents.	
Log Event Sources	Log Collector	TCP 514 (Syslog) UDP 162 (SNMP), 514 (Syslog), 2055 (NetFlow), 4739 (NetFlow), 6343 (NetFlow), 9995 (NetFlow)"	Log Collection Ports
Log Event Sources	Log Collector	TCP 21, 64000, 64001, 64002, 64003, 64004, 64005, 64006, 64007, 64008,64009	Log Collection FTP/S Ports
NW Server	Log Collector	TCP 56001 (SSL), 50001 (Non-SSL), 50101 (REST)	Log Collector Application Ports
NW Server	Log Collector	TCP 56006 (SSL), 50006 (Non-SSL), 50106 (REST)	NetWitness Appliance Ports

Source Host	Destination Host	Destination Ports	Comments
NW Server	Log Collector	TCP 5671	RabbitMQ (AMQPS) message bus for all NW hosts.
Log Collector	Log Collector	UDP 50514	Audit Data
Log Collector	Log Collector	UDP 123	NTP
Log Collector	NFS Server	TCP 111 2049 UDP 111 2049	iDRAC installations
Log Collector	Virtual Log Collector	TCP 5671	In Pull Mode
Virtual Log Collector	Log Collector	TCP 5671	In Push Mode

Log Deco	der Host
----------	----------

Source Host	Destination Host	Destination Ports	Comments
Admin Workstation	Log Decoder	TCP 15671	RabbitMQ Management UI
Log Decoder	NW Server	TCP 15671	RabbitMQ Management UI
Admin Workstation	Log Decoder	TCP 22	SSH
Log Decoder	Log Event Sources	See <i>Log Collection Configuration Guide</i> . Go to the Master Table of Contents for NetWitness Logs & Packets 11.x to find all NetWitness Suite 11.x documents.	
Log Event Sources	Log Decoder	TCP 514 (Syslog), UDP 162 (SNMP), 514 (Syslog), 2055 (NetFlow), 4739 (NetFlow), 6343 (NetFlow), 9995 (NetFlow)	Log Collection Ports
Log Event Sources	Log Decoder	TCP 21, 64000, 64001, 64002, 64003, 64004, 64005, 64006, 64007, 64008, 64009	Log Collection FTP/S Ports
NW Server	Log Decoder	TCP 56001 (SSL), 50001 (Non-SSL), 50101 (REST)	Log Collector Application Ports
NW Server	Log Decoder	TCP 56002 (SSL), 50002 (Non-SSL), 56202 (Endpoint), 50102 (REST)	Log Decoder Application Ports
NW Server	Log Decoder	TCP 56006 (SSL), 50006 (Non-SSL), 50106 (REST)	NetWitness Appliance Ports

Source Host	Destination Host	Destination Ports	Comments
NW Server	Log Decoder	TCP 5671	RabbitMQ (AMQPS) message bus for all NW hosts.
Log Decoder	Log Decoder	UDP 50514	Audit Data
Log Decoder	Log Decoder	UDP 123	NTP
Log Decoder	Log Collector	TCP 6514	
Log Decoder	NFS Server	TCP 111 2049 UDP 111 2049	iDRAC Installations

Log Hybrid Host

Source Host	Destination Host	Destination Ports	Comments
Admin Workstation	Log Hybrid	TCP 15671	RabbitMQ Management UI
Log Hybrid	NW Server	TCP 15671	RabbitMQ Management UI
Admin Workstation	Log Hybrid	TCP 22	SSH
Log Collector	Log Event Sources	See Log Collection Configuration Guide. Go to the Master Table of Contents for NetWitness Logs & Packets 11.x to find all NetWitness Suite 11.x	

Source Host	Destination Host	Destination Ports	Comments
Log Event Sources	Log Hybrid	TCP 514 (Syslog), UDP 162 (SNMP), 514 (Syslog), 2055 (NetFlow), 4739 (NetFlow), 6343 (NetFlow), 9995 (NetFlow)	Log Collection Ports
Log Event Sources	Log Hybrid	TCP 21, 64000, 64001, 64002, 64003, 64004, 64005, 64006, 64006, 64007, 64008, 64009	Log Collection FTP/S Ports
NW Server	Log Hybrid	TCP 56001 (SSL), 50001 (Non-SSL), 50101 (REST)	Log Collector Application Ports

Source Host	Destination Host	Destination Ports	Comments
NW Server	Log Hybrid	TCP 56002 (SSL), 50002 (Non-SSL), 56202 (Endpoint), 50102 (REST)	Log Decoder Application Ports
NW Server	Log Hybrid	TCP 56005 (SSL), 50005 (Non-SSL), 50105 (REST)	Concentrator Application Ports
NW Server	Log Hybrid	TCP 56006 (SSL), 50006 (Non-SSL), 50106 (REST)	NetWitness Appliance Ports
NW Server	Log Hybrid	TCP 5671	RabbitMQ (AMQPS) message bus for all NW hosts.
Log Hybrid	NFS Server	TCP 111 2049 UDP 111 2049	iDRAC Installations

Malware Host

Source Host	Destination Host	Destination Ports	Comments
Admin Workstation	Malware	TCP 15671	RabbitMQ Management UI
Malware	NW Server	TCP 15671	RabbitMQ Management UI
Admin Workstation	Malware	TCP 22	SSH
NW Server	Malware	TCP 60007	Malware Application Ports
NW Server	Malware	TCP 56006 (SSL), 50006 (Non-SSL), 50106 (REST)	NetWitness Appliance Ports
NW Server	Malware	TCP 5671	RabbitMQ (AMQPS) message bus for all NW hosts.
NW Server	Malware	TCP 5432	Postgresql
NW Server	Malware	TCP 56003 (SSL), 50003 (Non-SSL), 50103 (REST)	Broker Application Ports
Malware	panacea.threatgrid.com	TCP 443	Threatgrid
Malware	cloud.netwitness.com	TCP 443	Community evaluation / Opswat
Malware	Malware	UDP 50514	Audit Data
Malware	Malware	UDP 123	NTP
Malware	NFS Server	TCP 111 2049 UDP 111 2049	iDRAC Installations

Source Host	Destination Host	Destination Ports	Comments
Admin Workstation	Packet Decoder	TCP 15671	RabbitMQ Management UI
Packet Decoder	NW Server	TCP 15671	RabbitMQ Management UI
Admin Workstation	Packet Decoder	TCP 22	SSH
NW Server	Packet Decoder	TCP 56004 (SSL), 50004 (Non-SSL), 50104 (REST)	Packet Decoder Application Ports
NW Server	Packet Decoder	TCP 56006 (SSL), 50006 (Non-SSL), 50106 (REST)	NetWitness Appliance Ports
NW Server	Packet Decoder	TCP 5671	RabbitMQ (AMQPS) message bus for all NW hosts.
Packet Decoder	Packet Decoder	UDP 50514	Audit Data
Packet Decoder	Packet Decoder	UDP 123	NTP
Packet Decoder	NFS Server	TCP 111 2049 UDP 111 2049	iDRAC Installations

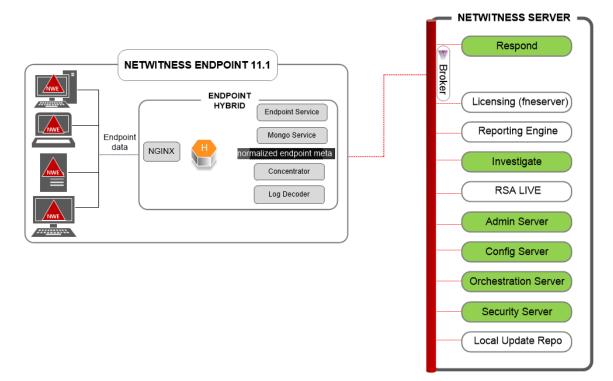
Packet Decoder Host

Packet Hybrid Host

Source Host	Destination Host	Destination Ports	Comments
Admin Workstation	Packet Hybrid	TCP 15671	RabbitMQ Management UI
Packet Hybrid	NW Server	TCP 15671	RabbitMQ Management UI
Admin Workstation	Packet Hybrid	TCP 22	SSH
NW Server	Packet Hybrid	TCP 56004 (SSL), 50004 (Non-SSL), 50104 (REST)	Packet Decoder Application Ports
NW Server	Packet Hybrid	TCP 56005 (SSL), 50005 (Non-SSL), 50105 (REST)	Concentrator Application Ports
NW Server	Packet Hybrid	TCP 56006 (SSL), 50006 (Non-SSL), 50106 (REST)	NetWitness Appliance Ports
NW Server	Packet Hybrid	TCP 5671	RabbitMQ (AMQPS) message bus for all NW hosts.
Packet Hybrid	NFS Server	TCP 111 2049 UDP 111 2049	iDRAC Installations

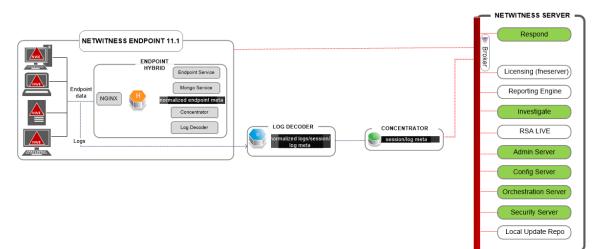
NetWitness Endpoint Insights Architecture

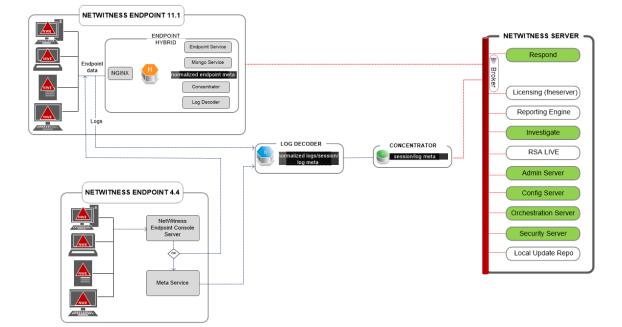
The following diagrams illustrate the NetWitness Endpoint Insights network architecture.



NetWitness Endpoint Insights 11.1

NetWitness Endpoint Insights 11.1 with Log Decoder





NetWitness Endpoint 4.4 Integration with NetWitness Endpoint Insights 11.1

For more information on the services running on Endpoint Hybrid, see *RSA NetWitness Endpoint Insights Configuration Guide*. Go to the Master Table of Contents for NetWitness Logs & Packets 11.x to find all NetWitness Suite 11.x documents.

Site Requirements and Safety

Make sure that you read this topic thoroughly and observe all warnings and precautions prior to installing or maintaining your RSA devices.

Intended Application Uses

This product was evaluated as Information Technology Equipment (ITE) that may be installed in offices, schools, computer rooms, and similar indoor commercial type locations. This device is not intended for any connection to an outdoor type cable.

Service

There are no user-serviceable components inside of this device. Please contact Customer Care in the event of a malfunction. In a fault condition, high temperatures may arise inside the system causing an alarm signal. In the event of the alarm signal, immediately disconnect the device from the power source and contact Customer Care. Further operation of the device will be unsafe and may cause personal injury or property damage.

Safety Information

Site Selection

The system is designed to operate in a typical office environment. Choose a site that is:

- Clean, dry, and free of airborne particles (other than normal room dust).
- Well-ventilated and away from sources of heat, including direct sunlight and radiators.
- Away from sources of vibration or physical shock.
- Isolated from strong electromagnetic fields produced by electrical devices.
- In regions that are susceptible to electrical storms, we recommend you plug your system into a surge suppressor.
- Provided with a properly grounded wall outlet.
- Provided with sufficient space to access the power supply cords, because they serve as the product's main power disconnect.

Equipment Handling Practices

Reduce the risk of personal injury or equipment damage by:

- Conforming to local occupational health and safety requirements when moving and lifting equipment.
- Using mechanical assistance or other suitable assistance when moving and lifting equipment.
- Reducing the weight for easier handling by removing any easily detachable components.

Power and Electrical Warnings

Caution: The power button, indicated by the standby power marking, DOES NOT completely turn off the system AC power; 5V standby power is active whenever the system is plugged in. To remove power from system, you must unplug the AC power cord(s) from the wall outlet.

- Do not attempt to modify or use an AC power cord if it is not the exact type required. A separate AC cord is required for each system power supply.
- This product contains no user-serviceable parts. Do not open the system.
- When replacing a hot-plug power supply, unplug the power cord to the power supply being replaced before removing it from the server.

Rack Mount Warnings

- The equipment rack must be anchored to an unmovable support to prevent it from tipping when a server or piece of equipment is extended from it. The equipment rack must be installed according to the rack manufacturer's instructions.
- Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- Extend only one piece of equipment from the rack at a time.
- To avoid risk of potential electric shock, a proper safety ground must be implemented for the rack and each piece of equipment installed in it.

Cooling and Air Flow

Installation of the equipment should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Antenna Placement

This equipment should be installed and operated with a minimum distance of 7cm between the radiator and your body. The antennas used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Configure Group Aggregation

You use Group Aggregation to configure multiple Archiver or Concentrator services as a group and share the aggregation tasks between them. You can configure multiple Archiver services or Concentrator services to efficiently aggregate from multiple Log Decoder services to improve query performance on the data:

- Stored in the Archiver.
- Processed through the Concentrator.

RSA Group Aggregation Deployment Recommendations

RSA recommends the following deployment for Group Aggregation.

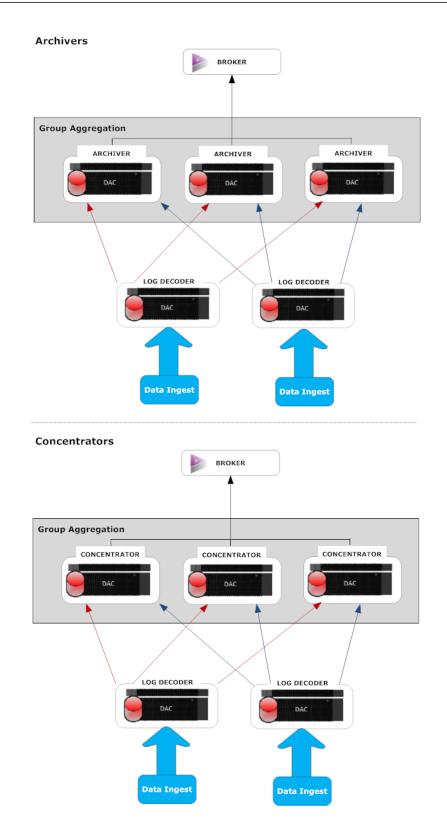
- 1 2 Log Decoders
- 3 5 Archivers or Concentrators

Advantages of Using Group Aggregation

Group Aggregation:

- Increases the speed of RSA NetWitness® Suite queries.
- Improves the performance of aggregate queries (Count and Sum) on the environment.
- Enhances investigation service performance.
- Gives you the option of storing data for a longer duration for investigation purposes.

The following diagram illustrates Group Aggregation.



You can have any number of Archivers or Concentrators grouped together and form an aggregation group. The Archiver or Concentrator services in the group divide all the aggregated session between them based on the number of sessions defined in the Aggregate Max Sessions parameter.

For example, in an aggregation group containing two Archiver services or two Concentrator services with the Aggregate Max Sessions parameter set to 10000 the services would divide the session between themselves as illustrated in the following table.

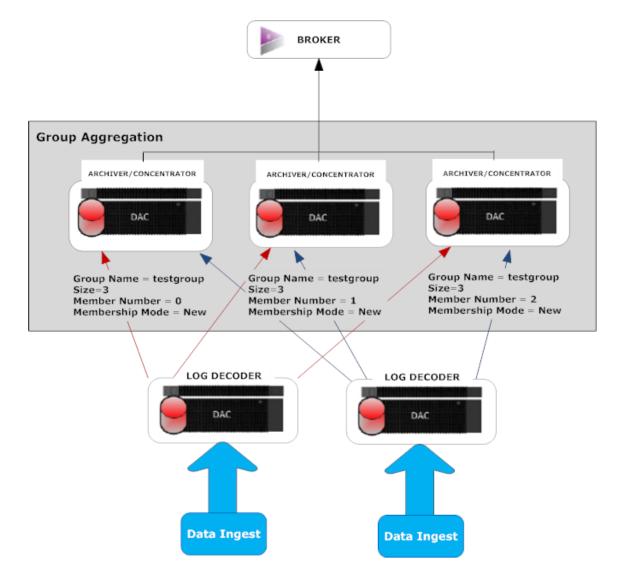
Archiver 0 or Concentrator 0	Archiver 1 or Concentrator 1
1 - 9,999	10,000 - 19,999
20,000 - 29,999	30,000 - 39,999
40,000 - 49,999	50,000 - 59,999

Configure Group Aggregation

Complete this procedure to configure multiple Archiver or Concentrator services as a group and share the aggregation tasks between them.

Prerequisites

Plan the network design for group aggregation. The following figure is an example of a group aggregation setup.



Ensure that you understand the Group aggregation parameters in the following table, and create a group aggregation plan.

Parameter	Description
Group Name	It determines the group to which the Archiver or Concentrator belongs. You can add any number of groups aggregating data from a Log Decoder. The Group Name parameter is used by the Log Decoder to identify which Archiver or Concentrator services are working together. All Archiver or Concentrators services in the group should have the same group name.
Size	It determines the number of Archiver or Concentrator services in the aggregation group.

Member Number	It determines the position of the Archiver or Concentrator in the aggregation group. For a group of size N, member number from 0 to N-1 must be set on each of the Archiver or Concentrators services in the aggregation group. For example: If the size of the aggregation group is 2, the member number of one of the Archiver or Concentrator service should be set to 0 and the member number of the other Archiver or Concentrator should be set to 1.							
Membership Mode	There are two membership modes: New and Replace. New: Adding a new Archiver or Concentrator service as a member to the existing aggregation group or creating an aggregation group. The Archiver or Concentrator service does not aggregate any existing sessions from the service as other members of the group would have already aggregated all the sessions on the service. This Archiver or Concentrator service will only aggregate new sessions as they appear on the service. Replace: Replacing an existing aggregation group member. The Archiver or Concentrator will begin aggregation from the oldest session available on the service it is aggregating from.							
	Note: This parameter has an effect only when no sessions have been aggregated from the service. After some sessions are aggregated, this parameter has no effect.							
Verify & Edit System	Configure the Configure Group Start and Stop							

Set up Group Aggregation

Process

Configuratic

Parameters

Complete the following procedure to set up group aggregation.

Services

1. Configure multiple Archiver or Concentrator services in your environment. Make sure that you add the same Log Decoder as data source to all the services.

Aggregation

Aggregation

- 2. Perform the following on all the Archiver or Concentrator services that you want to be part of aggregation group:
 - a. In the **main menu**, select **ADMIN** > **Services**.

b. Select the Archiver or Concentrator service, and in the Actions column, select View > Config.

The Device Config view of the Archiver or Concentrator is displayed.

- c. Under Aggregate Services section, select the Log Decoder device.
- d. Click *** Toggle Service** to change the status of the Log Decoder to offline if it is online.
- e. Click 🗹.

The Edit Aggregate Service dialog is displayed.

Edit Aggregate Service X								
Group Aggregation								
Meta Filter Meta Include								
Search X								
Meta ^	l							
os ·								
access.point	1							
action								
ad.computer.dst								
ad.computer.src								
ad.domain.dst								
ad.domain.src								
ad.username.dst								
ad.username.src .	-							
Filter								
Reset Cancel Save								

f. Click Group Aggregation

The Edit Group Aggregation dialog is displayed.

Edit Group Aggregation								
Enabled	\checkmark							
Group Name	testgroup							
Size	3	0						
Member Number	0	٢						
Membership Mode	New	~						
Reset	Cancel	Save						

g. Select the **Enabled** checkbox and set the following parameters:

In the Group Name field, type the group name.

In the **Size** field, select the number of Archiver or Concentrator services in the aggregation group.

In the **Member Number** field, select the position of the Archiver or Concentrator in the aggregation group.

In the Membership Mode drop-down menu, select the mode.

- h. Click Save.
- i. In the Device Config View page, click Apply.
- j. Perform **Step b** to **Step i** on all other Archiver or Concentrator services that need to be part of group aggregation.
- 3. In the Aggregation Configuration section, set the Aggregate Max Sessions parameter set to 10000.

Deployment Guide

RSA RESPOND INV	RSA RESPOND INVESTIGATE MONITOR CONFIGURE ADMIN 🕑 🗘 @ admin⊛ @) admin ⊛ ?			
∦, Change Service 🕼 Concentrator Config ©													
General Files Data Retention Scheduler Correlation Rules Appliance Service Configuration													
Aggregate Services								Aggregation Configuration					
	+ - Z ♣ Edit Service 🕲 Toggie Service 🛞 Start Aggregation . Stop Aggregation									Name	Config Value		
Address	Port	Rate	Max	Behind		Filter	Meta Include	Grouped	Status	I Aggregation Settings			
10.31.125.245	50004	0	0	0	meta i rena	THUL .	Inclu Include	no	consuming	Aggregate Autostart	\checkmark		
10.31.125.246	50002	0	0	0				yes	offline	Aggregate Hours	0		
_										Aggregate Interval	10		
										Aggregate Max Sessions	10000		
										∃ Service Heartbeat			
										Heartbeat Error Restart	300		
										Heartbeat Next Attempt	60		
										Heartbeat No Response	180		
System Configuratio	n												
Name Config Value													
Compression					0								
Port					50005								
SSL FIPS Mode					1								
SSL Port					56005								
Stat Update Interval					1000								
Threads					20								
	Apply												
RSA NETWITNESS SU	ITE											1.0.0.0-170709005430.1.9127d8d	