



Cisco Insight Reporter for ASR 1000 Series Demo Kit Quick Start Guide

First Published: August 18, 2011
OL-25701-01

Overview

This document guides the user through the installation and setup of basic ASR1K solution comprising ASR1K platform, Collection Manager, and Cisco Insight Reporter software components. It includes the following sections:

- [Demo Kit Requirements, page 2](#)
- [Installing the Demo Kit Components, page 3](#)
- [Related Documentation, page 9](#)
- [Obtaining Documentation and Submitting a Service Request, page 10](#)

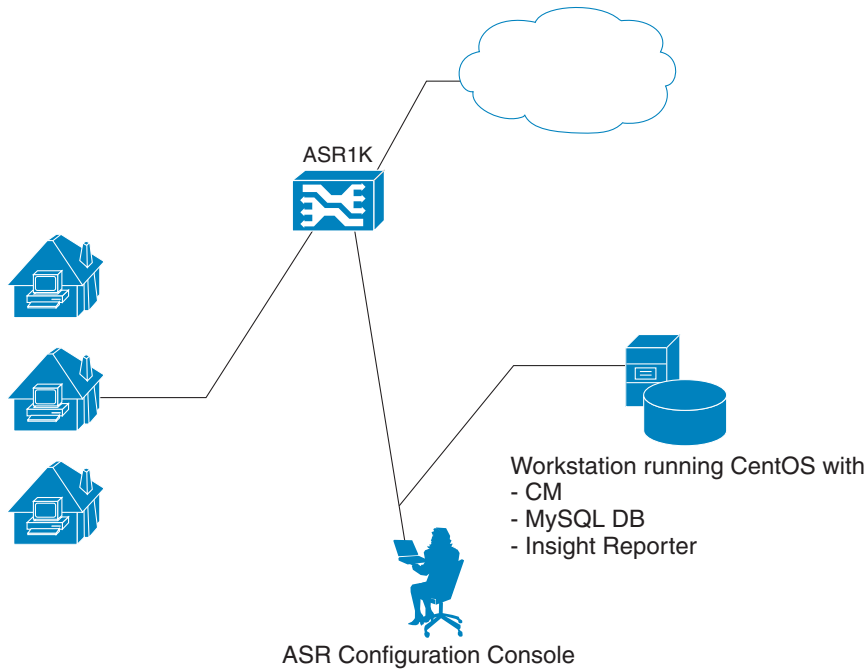
For more information on installing the demo kit, see [Installing the Demo Kit Components, page 3](#). For more information, see the following guides:

- *Cisco Service Control Management Suite Collection Manager User Guide*
- *Cisco Application Visibility and Control Collection Manager User Guide*
- *Cisco Insight Reporter User Guide*



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Figure 1 Cisco Insight Reporter Demo Kit for DPI Traffic Monitoring Based on ASR1K Device



Demo Kit Requirements

The software packages and OS that are required for installing the demo kit from DVD and virtual appliance are included in the image.

- Hardware-ASR1K and Linux machine.
- Software packages- SCMS CM, Cisco Insight Reporter, and MySQL.

Table 1 Hardware Requirements

Components	Specifications
CPU	Single or dual-core 2.0 GHz or greater Intel x86 processor
RAM	4 GB or greater
Free disk space	10 GB for the operating system + free space for data retention. Recommended size is greater than 100 GB
Network interface	Single 100BASE-T Ethernet or greater
DVD-ROM drive	4x or greater drive speed



Note

When using the ISO image for installation on a Virtual Appliance, the hardware requirements should take into account the additional resources required by the 3rd party software used for virtualization.

Installing the Demo Kit Components

Use any of the following methods to install the Demo Kit components:

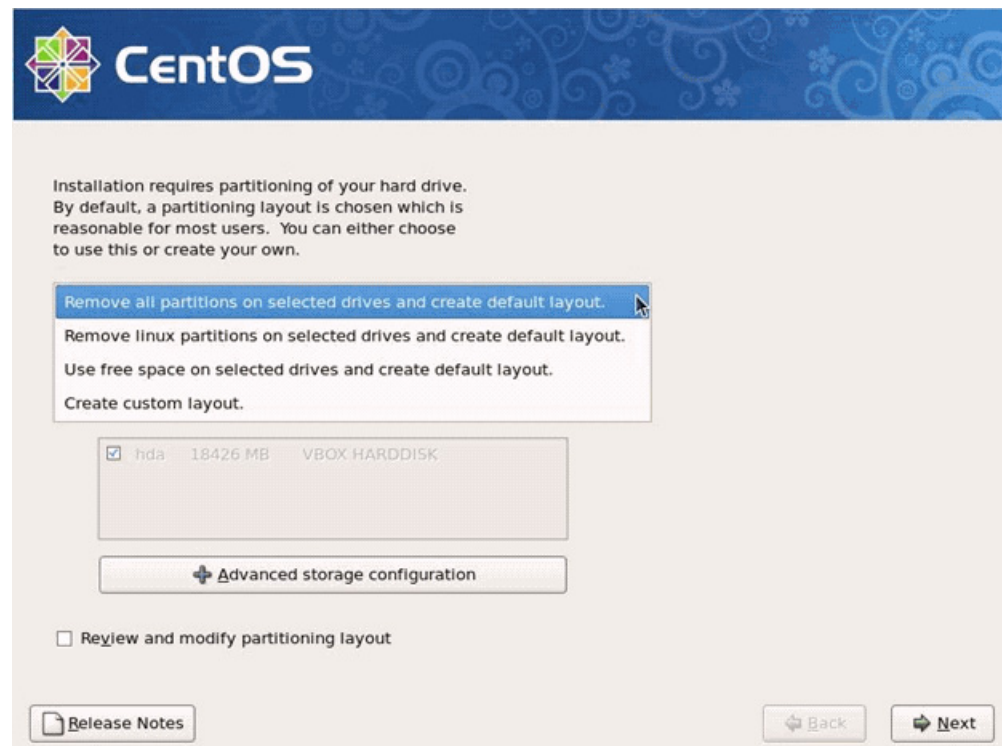
- [Installing the Demo Kit from a DVD, page 3](#)

Installing the Demo Kit from a DVD

The ISO image can be obtained in a DVD, which is used to install the demo kit on the server.

- Step 1** Insert the Demo Kit DVD into the DVD drive.
The system boots from the DVD and starts the demo kit installation process.
- Step 2** The pre-install scripts checks for the pre-requisites.
If the pre-requisite checks are successful, the installation process continues.
- Step 3** If the checks fail, the installation process waits for user input.
Click **Enter** to continue or enter **n** to quit the process.

Figure 2 CentOS Installation Screen



- Step 4** Select any of the following options to free the disc space on the selected drives to create a default layout:
- Remove all partitions.



Note During the installation process, all the data on the hard drive is removed.

- Remove Linux partitions.
- Use the free space.



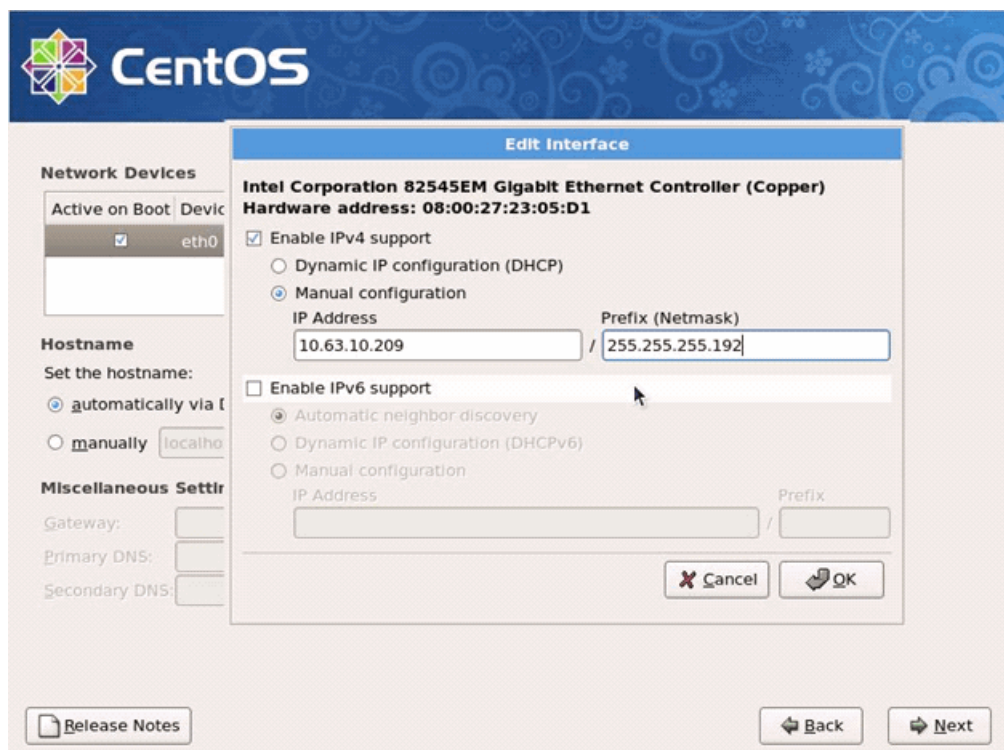
Note This option retains the current data and partitions. Ensure you have sufficient free space on the hard drive.

- Create custom layout allows you to specify the partitioning.

Step 5 Click **Next**

The CentOS network configuration window appears.

Figure 3 CentOS Network Configuration



Step 6 In the Edit Interface window, check the **Enable IPv4 Support** option.

Step 7 Select any of the following configurations to obtain the IP address:

- Dynamic IP configuration (DHCP)
- Manual configuration



Note Ensure to uncheck the **Enable IPv6 support** check box.

Step 8 Select the **time zone**.

The selected time zone is used to set the time zone offset value in the CM.

Step 9 Click **Next**.

The account password window appears.



Note The CentOS root password is **ciscoce**.

- Step 10** Enter the **root password** for the CentOS.
- Step 11** Click **Next** to proceed with the OS installation.
The CentOS Welcome page appears.

Figure 4 *CentOS Welcome Page*



The post install scripts are executed after completion of the CentOS installation process.

The post install scripts copies the distribution packages (CM, MySQL, and Cisco Insight Reporter) and the configuration scripts to the server. The server reboots.

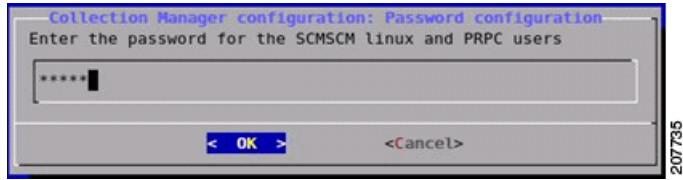
The configuration script installs the MySQL, CM, and Cisco Insight Reporter. By default, all the packages are installed.



Note The CM is installed therefore only CM configurations are required.

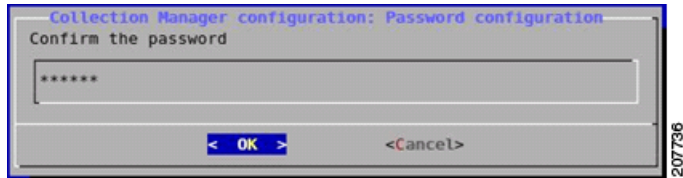
The Collection Manager configuration: Password configuration window appears.

Figure 5 *Collection Manager Configuration: Password Configuration*



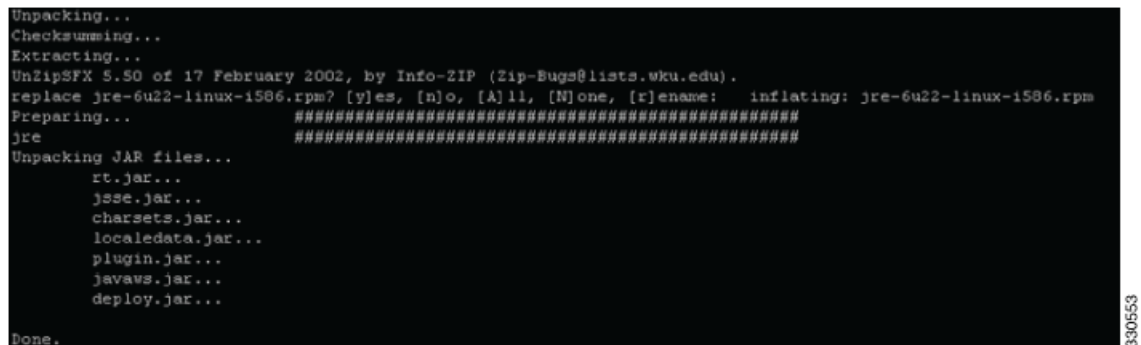
- Step 12** Enter the password for the SCMSCM Linux and PRPC users.
The Password confirmation window appears.

Figure 6 *Collection Manager Configuration: Password Configuration*



- Step 13** **Re-enter** the password
- Step 14** Click **OK**
- Step 15** Installation of Cisco Insight Reporter starts.
- Installation of JRE: After extracting the Java Runtime RPM, the installation scripts install the JRE 1.6 on the system. The JRE installation logs appear as below:

Figure 7 *JRE installation logs*



- Creation of Insight Schema and User
 - The installation script creates the Cisco Insight Reporter database schema named **insight_db** on the local MySQL database engine.
 - Once the Cisco Insight Reporter database schema is successfully created, installation script creates an OS user named 'insight' and sets the default password to **insight**.
- Creating the default application configuration parameters
 - After creation of the Insight Reporter database schema and user, the installation script creates the default configurations for the application to run.

The following logs appear on the screen:

Figure 8 Cisco Insight Database Schema and OS User Creation Logs

```
INFO : Cisco Insight schema created successfully
INFO : creating user [insight]
Changing password for user insight.
passwd: all authentication tokens updated successfully.
INFO : Default password is same as the username
INFO : Please change the password for user [insight] by giving command 'passwd insight'
INFO : Proceeding to configuration
```

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- Starting the Tomcat Server
 - The Installation script starts the application by starting the Tomcat application server when all the configuration parameters are created successfully.

The following logs appear on the screen:

Figure 9 Tomcat Startup Logs

```
Starting Tomcat
Using CATALINA_BASE: /home/insight/Insight/apache-tomcat-6.0.20
Using CATALINA_HOME: /home/insight/Insight/apache-tomcat-6.0.20
Using CATALINA_TMPDIR: /home/insight/Insight/apache-tomcat-6.0.20/temp
Using JRE_HOME: /usr/java/jre1.6.0_22
Using CLASSPATH: /home/insight/Insight/apache-tomcat-6.0.20/bin/bootstrap.jar
```

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- After successful installation, the following messages appear on the screen indicating the end of installation.

Figure 10 Cisco Insight Reporter Installation Completion Logs

```
INFO : CONGRATS!! Installation finished
INFO : To re-configure the application please execute config.sh in the /home/insight/Insight/bin
INFO : To uninstall the application please execute uninstall.sh in the /home/insight/Insight/bin
INFO : To bundle the logs please execute backup.sh in the /home/insight/Insight/bin
```

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Step 16 Verifying the installation of Cisco Insight Reporter

Once installation completes, Cisco Insight Reporter application is accessible via the web browser using the URL: <http://<host ip address>>



Note

Ensure all the ports used by Tomcat (as mentioned in the server.xml) are free and not being used by any other application.

Figure 11 Cisco Insight Reporter Login Page

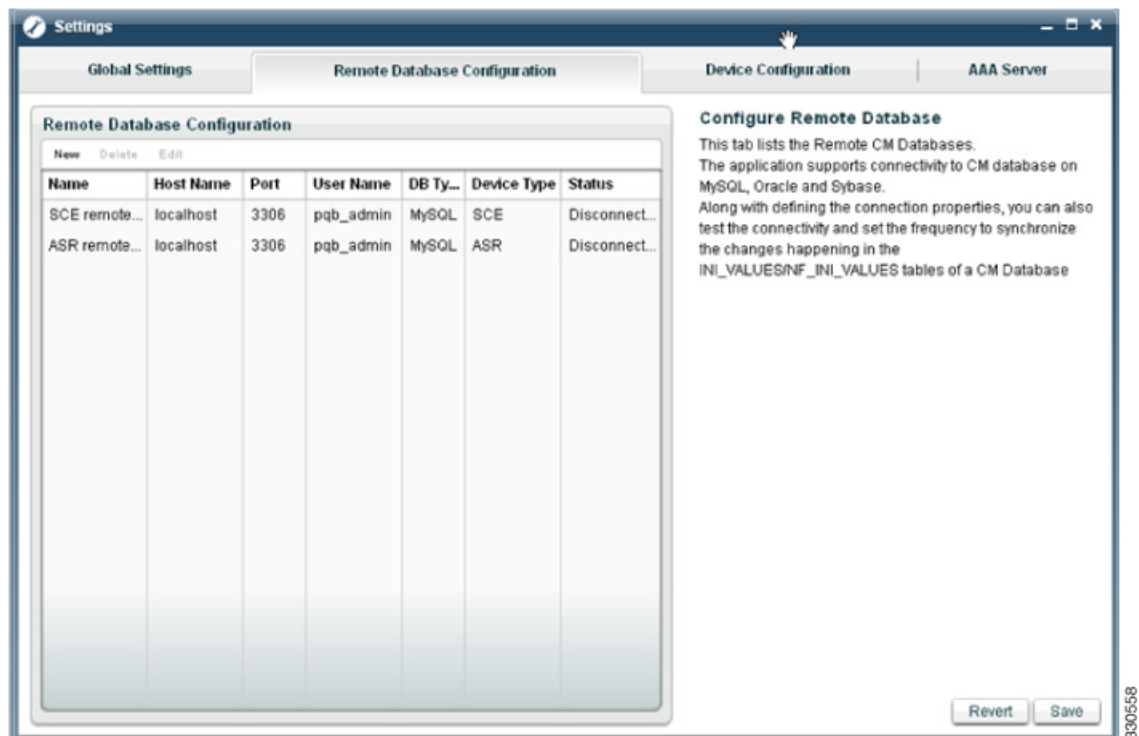


Step 17 Verifying connectivity with Traffic database

The Cisco Insight Reporter installation script by default configures connectivity with the Traffic database hosted on the local Database engine (**avocado** is the database schema name used for ASR1K traffic database).

To view the default configurations, go to **Setting Module->Remote Database Configuration** Screen.

Figure 12 Cisco Insight Reporter Traffic Database Settings



The connectivity to the traffic databases cannot be tested unless they are correctly populated with the device configuration information stored in the **NF_INI_VALUES** table.

Before using Cisco Insight Reporter, please make sure that the device configuration are available on the Collection Manager and the devices are pushing the traffic information to avocado database schema.

Please refer the Cisco Insight Reporter User Guide for configuring network and reporting on the ASR1K traffic information.

Related Documentation

The following documents are specific to Cisco Insight Reporter Documentation and are located at Cisco.com:

- Cisco Insight Reporter Documentation
Products > Service Exchange > Cisco Service Control > Cisco Service Control Management Suite > Cisco Insight

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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This document is to be used in conjunction with the documents listed in the “[Related Documentation](#)” section.

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