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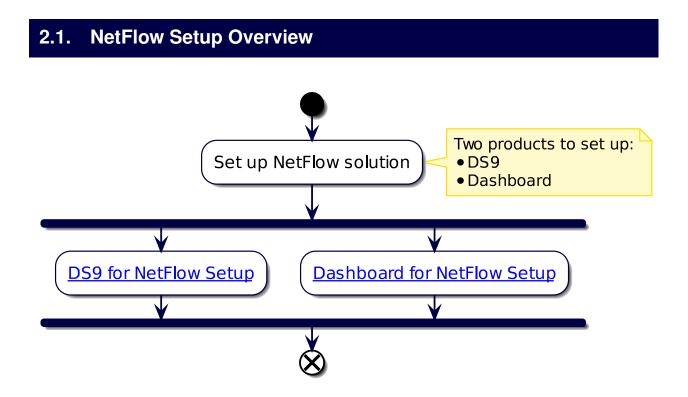
1. What's New

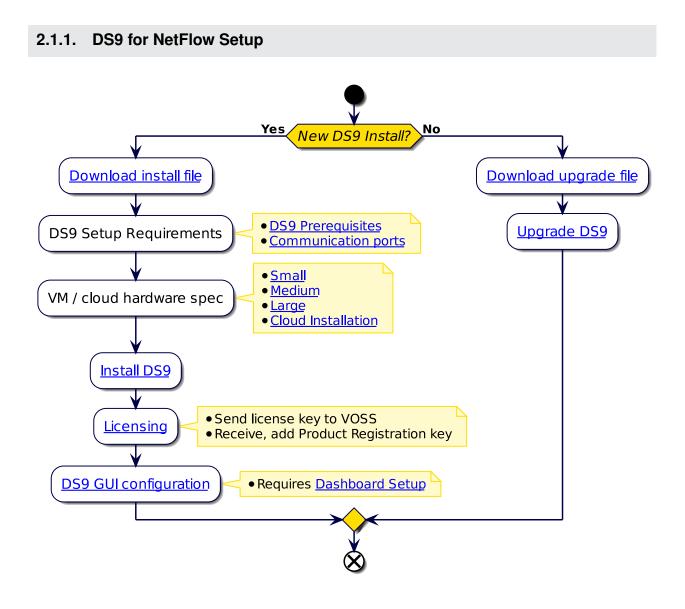
1.1. DS9 for NetFlow Install Guide: Release 24.2

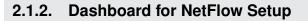
• EKB-21311: Add admin option on dashboard to disable sendmail for improved security. See: *Deploy* and VM Installation

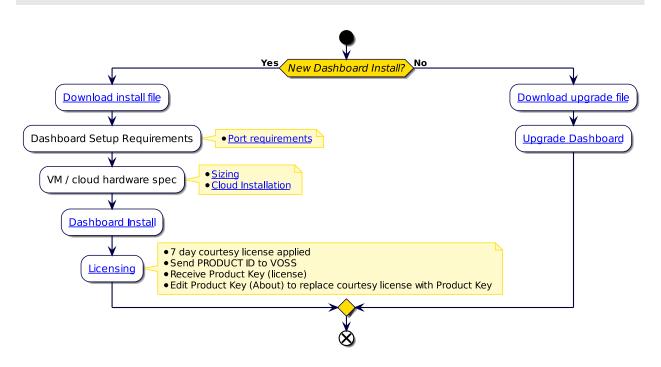
Added details on the admin menu option on the Dashboard to disable Sendmail.

2. NetFlow Quickstart









2.2. NetFlow Solution Documentation

2.2.1. Additional Reference Documentation

- Dashboard Release Notes
- Compatibility Matrix
- Dashboard Install Guide
- · Dashboard and Arbitrator Maintenance and Upgrade Guide
- Dashboard Administration Guide
- Dashboard API Guide
- Platform Guide

3. DS9 Download

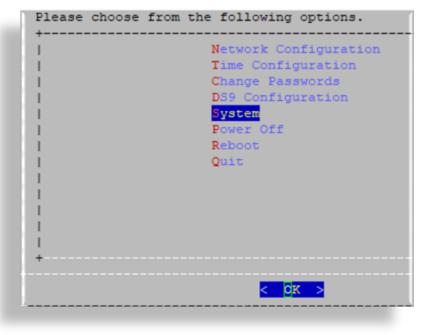
- DS9 OVA file:
 - 1. Log in on the VOSS Customer Portal
 - 2. Go to Downloads > VOSS Insights > Insights DS9 Hawaii > <release number> > New Installation.
 - 3. Download the .ova file
- DS9 upgrade file:

Log in on the VOSS Customer Portal

- 1. Go to Downloads > VOSS Insights > Insights DS9 Hawaii > <release number> > Upgrade.
- 2. Download the .1xsp upgrade file

4. VOSS Insights DS9 for NetFlow Product Registration

- 1. Connect to the DS9 server using an SSH client on port 22 and login using the admin credentials to access the **Administration** menu.
- 2. Select the System > Product Registration menu.



1	Product Registration	
1	Software Upgrade	
1	Backup and Restore	
1	Health Check	
1	Commands	
1	Create tarball for support	
1	Increase storage disk	
1	About	
1	Back	
1		
1		
1		
1		
+		

3. Select the Set Product Key option to input the Product Key.

	Get License Key	
	Set Product Key Back	
	Duon	
l i i i i i i i i i i i i i i i i i i i		
l l		
l i i i i i i i i i i i i i i i i i i i		
•		
	< OK >	



- 4. Paste the Product Key into the interface and hit <Enter> to update the licensing expiration on the DS9 Netflow server.
- 5. Once returned back to the **Product Registration** menu, select **Back** to navigate back to the **Administration** menu then select **Quit** to exit the interface and close the SSH session.

5. VOSS Insights DS9 for NetFlow Base Environment Installation

5.1. VOSS Insights DS9 Standalone Installation

VOSS Insights DS9 is a standalone single server to collect, process and store NetFlow-v5/v9/v10 and SNMP data. Visualization of the data will be handled via the VOSS Insights Dashboard reporting.

5.1.1. Assumptions

- · Host machines will be located within the same sub-network
- All the required TCP/UDP ports are open between DS9, Dashboard and NetFlow sources.
 - TCP: 5432 8082
 - UDP Depending on desired vflow: 2055 9996 4739 There is no redundancy requirement for any of the components
- Internet access is available to the DS9 system during installation.

After the installation, no internet access is necessary.

 Customer premises equipment is sending NetFlow data to Collector successfully Collector can access customer premises equipment via SNMP v1/2/3 successfully

5.1.2. Installation

Items that will be needed during configuration:

- 1. Hostname
- 2. Dashboard Reporter IP
- 3. For each NetFlow device added:
 - IP of device interface sending NetFlow to the DS9
 - NetFlow version
 - SNMP version
 - v1 or v2c community string

- v3 user name, user password, and encryption key
- NAT IP address (often same as IP)

6. Prepare a Production Environment for NetFlow

6.1. Abstract

This guide is an overview of all the action items that need to be completed by system administrators before implementation of a successful deployment.

6.2. Checklist

The following action items need to be completed by system administrators before the implementation starts:

ID	Action	Description	Criticality	
1	Hardware specifica- tions	The hardware/VM specifications have to meet the requirements defined by VOSS	Critical	
2	Software specifications VOSS Dashboard server is delivered as an OVA which includes an operating system. If this is a VM deployment, the following should be available in customer's VM datastore: • Latest OVAs. (Available at VOSS Customer Portal. Log in and select DOWNLOADS.)		Critical	
3	Firewall rules	All the required traffic rules are applied to customer environment based on the firewall matrix provided by VOSS deployment Team.	Critical	
4	Internet access	Internet access is enabled for the DS9 during imple- mentation. Once the implementation is over, internet access is no longer required.	Critical	
5	Round trip times (RTT)	RTT time between the DS9 and Dashboard Server is not more than 100msec.	Critical	
6	NetFlow configuration	NetFlow configuration NetFlow sources are configured to send their Net- Flow data to VOSS DS9 Servers based on the sug- gested settings by VOSS		
7	SNMP configuration	NetFlow sources are configured with SNMP v1 or 2c or v3.	Critical	
8	NetFlow and SNMP de- tails	 Following information is provided to VOSS deployment team: Device IP & Hostname and NetFlow version for the NetFlow source(s) SNMP details for NetFlow source(s) 	Critical	
9	Remote access	Remote access Some method of remote access is enabled for VOSS deployment team.		
10	Integration to customer environment Both DS9 and Dashboard Servers have access to customers data infrastructure for the following ser- vices: NTP, SMTP, DNS.		Critical	
11	Authentication via existing customer resources	Dashboard Servers have access to customers' exist- ing Active Directory/Identity servers to authenticate users via LDAP or SAMLv2.	Optional	

6.3. Requirements

The following list of items needs to be provided to VOSS before the deployment:

ID	Action	Description	Criticality
1	IP Addresses for VOSS components	IP addresses & Subnetmasks & Default IP Gateway settings for all the VOSS Host Machines (DS9, Dashboard Servers).	Critical
2	IP Addresses for Data services	IP addresses for the following services: DNS, NTP, SMTP, LDAP/SAMLv2.	Critical
3	Remote access details	VPN access details for VOSS Team to access the DS9 and Dashboard remotely.	Critical
4	Primary and Sec- ondary contact details	Primary and secondary contact details for technical and project management related items.	Critical
5	Email authentication for scheduled reports	SMTP authentication details for smart host servers.	Optional
6	SNMP community strings, versions and other details	SNMP community strings and protocol versions need to be provided to VOSS for successful SNMP queries.	Critical
7	List of NetFlow Sources	Provide VOSS a list of NetFlow sources (routers, switches) with the following details: IP addresses, Make/Model, Software Version, NetFlow version.	Critical
8	List of IP addresses and Hostnames	A CSV or Excel file that maps certain IP addresses to internal hostnames can help VOSS Team to im- prove the data visualization experience by mapping IP address fields to hostnames.	Optional

7. DS-9 NetFlow VM Sizing Specifications

VOSS Insights DS9 for NetFlow sizing specifications are divided into small, medium and large solutions based on tiers related to the number of flows that need to be supported.

Each solution below includes the VM specifications for both the VOSS Insights DS9 server and the VOSS Insights Dashboard server.

7.1. Small NetFlow Solution

The three small tiers in Flows per Second:

- 1,000
- 5,000
- 10,000

Dashboard Server VM	DS9 NetFlow Collector VM		
Cores	12	Cores	16
Memory GB	32	Memory	64
Disc Storage GB	500	Disc 1 OS in GB	250
SSD provisioned as Thick Eager Zero		Disc 2 Storage in GB	500
			as Thick

7.2. Medium NetFlow Solution

Two medium tiers in Flows per Second:

- > 10,000 but <= 25,000
- > 25,000 but <= 50,000

Dashboard Server VM		DS9 NetFlow Collector Bare Metal Server (Dell R740 or Equivalent)		
Cores	16	Cores	16	
		CPU Needs to be Intel Gold or better.		
Memory GB	64	Memory	196	
Disc Storage GB	500	Disc 1 OS in GB	250	
SSD provisioned as Thick Eager Zero		Disc 2 Storage in TB	1,5	
		Read Intensive SSDs required		
		Dual Intel 10GB NIC	1	
		Intel Quad 1GB NIC	1	
		iDRAC Enterprise or Equivalent		
		Dual Power Supplies		

7.3. Large NetFlow Solution

Two large tiers in Flows per Second:

- > 50,000 but <= 100,000
- > 100,000 but <= 200,000

Note: The DS9 Collector requires a minimum of 2 Bare Metal Servers to collect this volume in one location.

Dashboard Server VM		DS9 NetFlow Collector Bare Metal Server 1 (Dell R740 or Equivalent)		
Cores	16	Cores CPU Needs to be Intel Gold or better.	16	
Memory GB	64	Memory	196	
Disc Storage GB	500	Disc 1 OS in GB	250	
SSD provisioned as Thick Eager Zero		Disc 2 Storage in TB	3	
		Read Intensive SSDs required		
		Dual Intel 10GB NIC	1	
		Intel Quad 1GB NIC	1	
		iDRAC Enterprise or Equivalent Dual Power Supplies		
		Dual Power Supplies		

	Bare Metal Server 2 (Dell R740 or Equ	ivalent)
	Cores CPU Needs to be Intel Gold or better.	16
	Memory	196
	Disc 1 Storage in TB	3
	Disc 2 Storage in TB	3
	Disc 3 Storage in TB	3
	Read Intensive SSDs required	
	Dual Intel 10GB NIC	1
	Intel Quad 1GB NIC	1
	iDRAC Enterprise or Equivalent Dual Pov plies	ver Sup-
	Dual Power Supplies	

Note:

• Larger than 200K flows per second requires special pricing and configuration.

• Distributed DS9 collection is available. This may reduce the compute required at each collection location.

8. NetFlow and DS9 Monitoring System Connectivity

8.1. Communication ports between NetFlow Source and DS9

Source	Destination	Protocol	Port	Direction	Description
NetFlow Source	DS9	UDP	4739	Unidirectional	IPFIX (Optional)
NetFlow Source	DS9	UDP	2055	Unidirectional	NetFlow v9 (Optional)
NetFlow Source	DS9	UDP	9996	Unidirectional	NetFlow v5 (Optional)
NetFlow Source	DS9	UDP	6343	Unidirectional	Sflow v5 (Optional)
DS9	NetFlow Source	UDP	161	Unidirectional	SNMP queries

8.2. Communication ports between Dashboard Server Users and Dashboard Server

Source	Destination	Protocol	Port	Direction	Description
Dashboard users	Dashboard Server	TCP	443	Unidirectional	HTTPS (GUI access)

8.3. Communication ports between the DS9 Server and Dashboard Server

Unless the DS9 and Dashboard Servers are located in the same subnet, system administrators need to ensure the following network ports are open between these two components.

Source	Destination	Protocol	Port	Direction	Description
Dashboard Server	DS9	ТСР	5432	Unidirectional	Data respository access
Dashboard Server	DS9	ТСР	8082	Unidirectional	Data respository access
Dashboard Server	DS9	ТСР	443	Unidirectional	DS9 System Stats and management
DS9	Dashboard Server	UDP	514	Unidirectional	DS9 System Logs

8.4. Communication ports that are required for remote management purposes

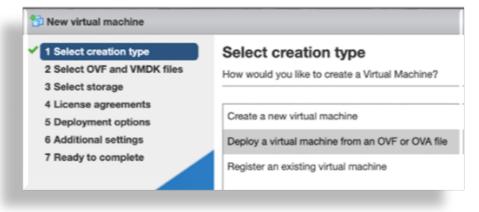
Source	Destination	Protocol	Port	Direction	Description
Admin users	DS9	ТСР	22	Unidirectional	SSH (remote CLI access) and file transfer
Admin users	Dashboard Server	ТСР	22	Unidirectional	SSH (remote CLI access) and file transfer
Admin users	Dashboard Server	TCP	443	Unidirectional	WEB access

9. Deploy and VM Installation

9.1. Base Install and Configuration

This procedure installs the base system, and involves the following tasks:

- · Download the OVA.
- Deploy the OVA.
- Run the VM.
- Log in as admin.
- · Change your password.
- Configure network settings.
- 1. Download the OVA for your system to a directory accessible by the VM client.
- 2. Deploy the OVA:
 - 1. Select the downloaded OVA file, and choose a VM name.



 Configure storage settings via the Select storage menu, based on the recommended hardware specifications for the required configuration.

See the VMWare Specification and Requirements for your system.

3. Configure the network mappings based on the recommended hardware specifications for the required configuration.

See the VMWare Specification and Requirements for your system.

Info:	install_package		/mnt/cd/pkg/iana-etc.lxp
Info:	install_package	Unpacking	/nnt/cd/pkg/nan-pages.lxp
Info	install_package	Unpacking	/nnt/cd/pkg/attr.lxp
Info	install_package		/nnt/cd/pkg/bc.lxp
[nfo:	install_package		/nnt/cd/pkg/berkeley-db.lxp
Info:	install_package	Unpacking	/mnt/cd/pkg/bglibs.lxp
Info:	install_package	Unpacking	/mnt/cd/pkg/bridge-utils.lxp
[nfo:	install_package	Unpacking	/mnt/cd/pkg/dhcpcd.lxp
Info:	install_package		/mnt/cd/pkg/diffutils.lxp
Info:	install_package	Unpacking	/nnt/cd/pkg/dnapi.lxp
[nfo:	install_package	Unpacking	/nnt/cd/pkg/ethtool.lxp
[nfo:	install_package	Unpacking	/mnt/cd/pkg/expat.lxp
Info:	install_package	Unpacking	/nnt/cd/pkg/gnp.lxp
Info:	install_package		/mnt/cd/pkg/lsof.lxp
Info:	install_package	Unpacking	/nnt/cd/pkg/ndadm.lxp
Info:	install_package		/mnt/cd/pkg/ncurses.lxp
Info:	install_package		/nnt/cd/pkg/net-tools.lxp
Info:	install_package	Unpacking	/nnt/cd/pkg/patch.lxp
Info:	install_package		/mnt/cd/pkg/paxctl.lxp
Info:	install_package		/mnt/cd/pkg/per1-SSLeay.lxp
Info:	install_package		/nnt/cd/pkg/popt.lxp
Info:	install_package		/mnt/cd/pkg/speex.lxp
Info:	install_package		/mnt/cd/pkg/strace.lxp
Info:	install_package	Unpacking	/nnt/cd/pkg/tar.lxp

3. Run the VM, and monitor installation of the packages (this may take some time).

Once all packages are installed, the VM is automatically powered off, confirmed via the auto-poweroff message on the console.

BHCPDISCOVER on eth0 to	255.255.255.255 port 67
DHCPDISCOVER on eth0 to	255.255.255.255 port 67
DHCPDISCOUER on eth0 to	255.255.255.255 port 67
DHCPDISCOVER on eth0 to	255.255.255.255 port 67
DHCPDISCOVER on eth0 to	255.255.255.255 port 67
DHCPDISCOVER on eth0 to	255.255.255.255 port 67
DHCPDISCOVER on eth0 to	255.255.255.255 port 67
DHCPDISCOVER on eth0 to	255.255.255.255 port 67
No DHCPOFFERS received.	
	e on first try. Exiting.
useradd: user 'admin' a	lready exists
umount: /mnt/target/dev	device is busy de.

The system reboots. Wait until you see the **About** console, which displays placeholder values for hostname, version, license, days licensed and remaining, and so on.

About Hostname: <hostname> Version: <version> Theme: <theme> Flavor: License: NNNNN-NNNNN-NNNNN-NNNNN

(continues on next page)

(continued from previous page)

```
Days Licensed: nnnnn
Days Remaining: nnnnn
Product Key:
    Website: <website>
    Kernel: Linux n.nn.nn-lxt-3 x86_64 GNU/Linux
<hostname> login:
```

4. Log in:

 On the About console, at <hostname> login:, log in as admin. For the password, use the last 10 characters of the value at License, excluding the dash.

Important: The **License** key value is *only* displayed on the **About** console. When you *ssh* in, it is not visible, thus, you must copy the admin password from the **About** console.

Once logged in, the Administration menu displays (the image displays an example for DS9):

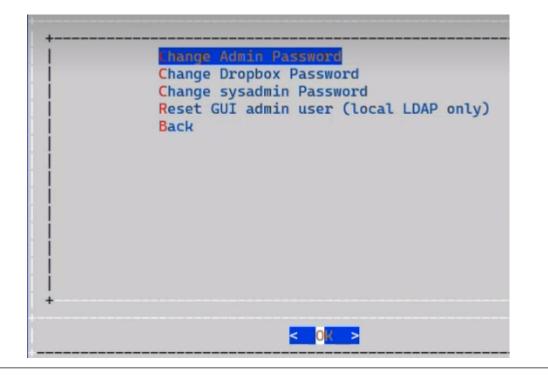


5. Change your password:

On the Administration menu, select Change Passwords, then change your password.

Note:

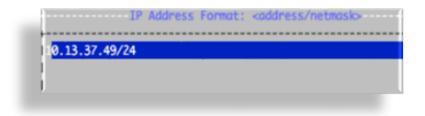
- · It is strongly recommended that you change your password immediately.
- The Reset GUI admin user option on the allows for this admin user's password reset.



- 6. Configure network settings:
 - 1. On the Administration menu, select Network Configuration.
 - 2. Configure interface settings via the Interface Settings menu:
 - 1. Select the relevant interface.



2. Select **IPs**, then set the IP address and netmask in the format nn.nn.nn/24, and save your changes.



3. Configure the default gateway via the Extra Routes menu.

+	 				
:		HCP		off	
		IPs			
:		Extra R	loutes		
:		Speed		auto	
:		Duplex		full	
:		Clear			
:		Save			
:		Cancel			
:					
:					
:					
:					
:					
•					

- Use the following format for the entry: default <gateway IP address>
- The word *default* is required. For additional route entries use the *<subnet> < gateway>* format. Similar to what would be done on a Linux system at the CLI.

	< Yes >	< No >	
Configuring eth0.			
Cannot advertise du			
	ings: Operation not	supported	
not setting duple not setting auton			
Cannot advertise du			
	ings: Operation not	supported	
not setting duple not setting auton			
Notifying network s		meters.	

4. Configure DNS settings via the DNS Settings menu:

What woul	d you like	Network Configuration to configure?	
+		Interface Settings INS Settings Hostname Apache Certs Apache Config SSH Config SSHD Config Quit	
+			

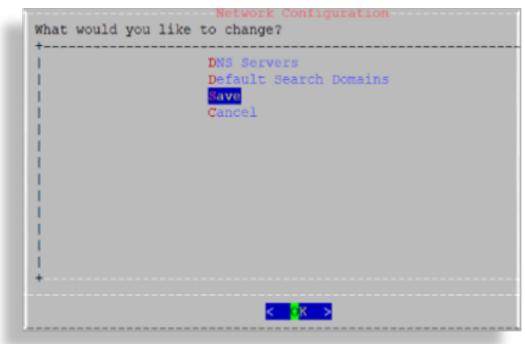
1. Select DNS Servers.

Default Search Domains Save Cancel	1	S Servers	Demoine	
			Domains	
	i -			
	1			
 	i -			
 	1			
i +				
*	i -			
	+			
		< <mark>O</mark> K	2	

2. Add the IP address for each DNS server, one per line, then click **OK**.

+	
1.1.1.1 19.9.9.9	
8.8.8.8	
i i i i i i i i i i i i i i i i i i i	
i i i i i i i i i i i i i i i i i i i	
+	
< OK > <cancel></cancel>	

3. Click Save.



5. Configure the hostname via the **Hostname** menu, then save to trigger the update.

The console displays a message, *Updating hosts*. This setup may take a few minutes.

What would you]	Network Configuration What would you like to configure?					
	Interface Sottings DNS Settings Hostname Apache Certs Apache Config SSH Config SSHD Config FTPD Config Sendmail Config Quit					
1	< 0 <mark>K ></mark>					

6. Update SSL ciphers via the **Apache Config** menu.

SSLCipherSuite HIGH: !MEDIUM: !ADH: !LOW

Note:

- SSLCipherSuite defaults to HIGH encryption.
- For SSLProtocol, only TLSv1.2 is supported.
- OpenLDAP defaults to HIGH encryption.
- OpenSSH does not support weak ciphers.

What would you	Network Configuration like to configure?	
	Interface Settings DNS Settings Hostname Apache Certs Apache Config SSH Config SSHD Config FTPD Config Sendmail Config Quit	
:	< 0K >	

7. Configure SSH settings via the SSH Config.

Custom entries can be added, if required. The following entries have been added:

```
kexalgorithms
diffie-hellman-group14-sha1
diffie-hellman-group-exchange-sha1
hostkeyalgorithms
ssh-rsa
```

8. Configure SSHD via the SSHD Config menu.

Note:

- Multi-line entries can be added, if required. For example, for CUCM v11.5 support, see: Multi-line CUCM Cipher Support.
- This step is relevant only to an Insights Assurance solution and its integration with Cisco UC systems. This step is not relevant to the DS9 and Insights NetFlow solution.
- 9. Enable/disable FTPD or restart the FTPD daemon:
 - 1. On the Administration menu, select Network Configuration.
 - 2. Select FTPD Config.

Important: On new installs, the FTPD daemon is disabled by default.

It is strongly recommended that the FTPD daemon remains disabled, unless there is a good reason you need to use it. It has been seen that enabling the FTPD daemon may introduce a system vulnerability.

FTPD is typically *only* required in rare situations, where FTP is the only way to transfer files to the server. Instead of using FTPD, it is recommended that you use the drop account with SCP or SFTP.

The drop account username is "drop". You can set the password via the **Administration** menu.

What would you 1	ike to d	Disable FTPD Restart FTPD	
		Back	
		< 0K >	

10. Enable/disable Sendmail or restart Sendmail on port 25:

Current Sendmail	Network Configuration 1 Status: Enabled (4531)	
	<mark>isablo Sendmail</mark> Restart Sendmail Back	
÷		-
	<u> </u>	+

- 1. On the Administration menu, select Network Configuration.
- 2. Select **Sendmail Config**. The current status of the service is displayed on the menu. Choose to enable, disable or restart the service as required.
- Base system installation is now complete. Select Quit to exit the Administration menu on the console.
 Continue with product registration, and with the configuration of your system through the GUI:
 - Insights Dashboard

See the VOSS Automate Database Setup section in the VOSS Insights Install Guide.

 Insights Arbitrator (relevant only to an Insights Assurance solution and its integration with Cisco UC systems)

See the Install Arbitrator System section in the VOSS Insights Install Guide.

Insights DS9

Note: Prior to opening the DS9 GUI, reboot the system.

See the DS9 Product Registration and Configuration on the Dashboard section in the VOSS Insights DS9 for NetFlow Install Guide.

9.2. Multi-line CUCM Cipher Support

This section provides details for the use of the SSHD Config menu option.

Note: This section is not relevant to the DS9 and Insights NetFlow solution. This solution is relevant only to an Insights Assurance solution and its integration with Cisco UC systems.

You can copy the keys into the screen in a comma separated list (without spaces).

For CUCM v11.5 support:

10. DS9 Configuration on the Dashboard

To complete the configuration between the Insights Dashboard Reporter and DS9, flow devices and SNMP configuration can be carried out:

1. Log in on the Dashboard GUI as admin, then go to **admin > Configuration**. On the **Configuration Settings** page, select the **DS9** tab.

Archive DS9	DS9 Flow Summary	Import	LDAP	Sendmail	SNMP	Syslog	VOSS	Widget Resource	
							Sa	Delete	
About info		Ch	anges have	e been made to	o this config	juration iten	n		
Automatic mapping up	odates								
Display configuration		About info							
Flow device intake		Obtain infromation from the specified DS9.							
Set monitor device		d	9IpAddres	55					
Remote database acc	R	equired - Ip	address of DS	9.					
Remote database loca	ition								
Remove DS9 from reporter		Show							
Service restart									
Setup new DS9									
Snmp data collection f	for flow device								

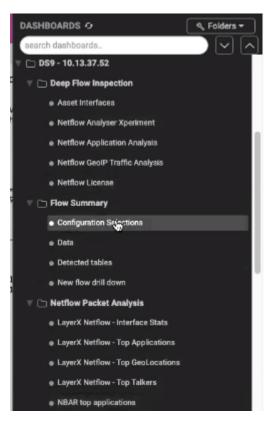
2. Choose Setup new DS9, add the ds9lpAddress, then click Add. Repeat this step according to the number of DS9 systems to be utilized in the environment.

Archive DS9 DS9 Flow Summary	Import LDAP Sendmail SNMP Syslog VOSS Widget Resources					
	Save Delete					
About info	Changes have been made to this configuration item					
Automatic mapping updates						
Display configuration	Setup new DS9					
Flow device intake	Base DS9 setup, configuration done on DS9 and dashboards and data sources created on reporter.					
Set monitor device	ds9lpAddress					
Remote database access	172.30.42.193					
Remote database location	Required - Ip address of DS9.					
Remove DS9 from reporter	IdapPassword					
Service restart	******					
Setup new DS9	Required - Ldap password.					
Snmp data collection for flow device	Add					
	Add					
	To let the box know about the new datasources please refresh the browser. Use					
	Display configuration option to confirm Remote database access to this reporter.					

3. Refresh the Dashboard browser page and from the menu, select **Data Sources**.

The new entries for the IP address are listed as DS9 SNMP..., DS9 SUMMARY... DS9 TOPN... entries.

4. Under the **DASHBOARDS** menu, the new **DS9 - <IP>** dashboard menu shows, for example:



Note at this stage the sub-menus are still empty.

- 5. Set up the DS9 to receive netflow from the source devices sending to the DS9. Go to **admin > Configuration** and on the **Configuration Settings** page, select the **DS9** tab.
- 6. Choose **Flow device intake** and for each remote netflow device that the DS9 server will receive flow data, set up **ds9lpAddress**, **remotelpaddress** and **port** and click **Add**.

	Save Delete
bout info	Changes have been made to this configuration item
utomatic mapping updates	
isplay configuration	Flow device intake
ow device intake	To configure flow injection.
at monitor device	ds9lpAddress
	172.28.254.31
emote database access	Required - Ip address of DS9.
emote database location	Ld-Deserved
emove DS9 from reporter	IdapPassword
ervice restart	Required - Ldap password.
etup new DS9	negarea Edap passirola.
-	Show
nmp data collection for flow device	Show
	Shows list of ip addresses configured to recieve flow.
	choire not on pladar cools configured to reacte non.
	remotelpAddress
	Ip address to allow access. Supports comma seperated list. This is required
	for Add or Delete below.
	port
	Required for Add. Netflow 5 = 9996; Netflow 9 = 2055; Netflow 10 = 4739;
	Sflow = 6343.
	Add
	Add
	Sends request to DS9, use Show for confirmation.
	Delete

7. NetFlow source device interface utilization statistics that are gathered using SNMP data collection is also required. Choose the **Snmp data collection for flow device** menu, enter data into the fields

according to your SNMP version configuration preferences, then click Add.

Repeat this step for each of the flow sources set up to send flow to the DS9.

Specify the same IP address of the NetFlow source to be queried in the **devicelpAddress** field and the **snmplpAddr** field if NAT is not being used to connect to the NetFlow source device from the DS9 system.

If NAT is used to connect to the NetFlow source device, specify the NAT IP address of the NetFlow source device in the **snmplpAddr** field to use as the Ip address to connect to the system for the SNMP query.

Input the real IP address of the system into the **devicelpAddress** field and then input the SNMP authentication parameters.

Click the **Add** button when complete.

Repeat for each NetFlow source device to be queried. The authentication parameters will cache in the browser so only changing the **devicelpAddress** and **snmplpAddr** fields is usually required for a new entry.

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Snmp data collection for flow device

Changes have been made to this configuration item

Snmp data collection for flow device

Optional but allows for interface details to be desplayed.

ds9lpAddress

ΙŢ

Required - Ip address of DS9.

Show

Show

Show status of snmp collection.

Enable

Enable

Sends request to DS9, use Show for confirmation.

Disable

Disable

Sends request to DS9, use Show for confirmation.

Show configured

Show configured

Show ip addresses of devices configured for snmp collection.

deviceIpAddress

Ip address of device to allow snmp collection. This is required for Add or

Delete
Delete
Sends request to DS9, use Show configured for confirmation.
Select an option
SNMPv1
SNMPv2c
SNMPv3
Select the SNMP version. Access from the specified DS9 to this device me
snmplpAddr
Same as snmplpAddress above but can be different. Ex. For NAT.
userName
authProtocol
SHA
Select authentication protocol.
authPassPhrase

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