



VOSS Insights DS9 for NetFlow Install Guide

Release 25.2

August 27, 2025

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1. What's New

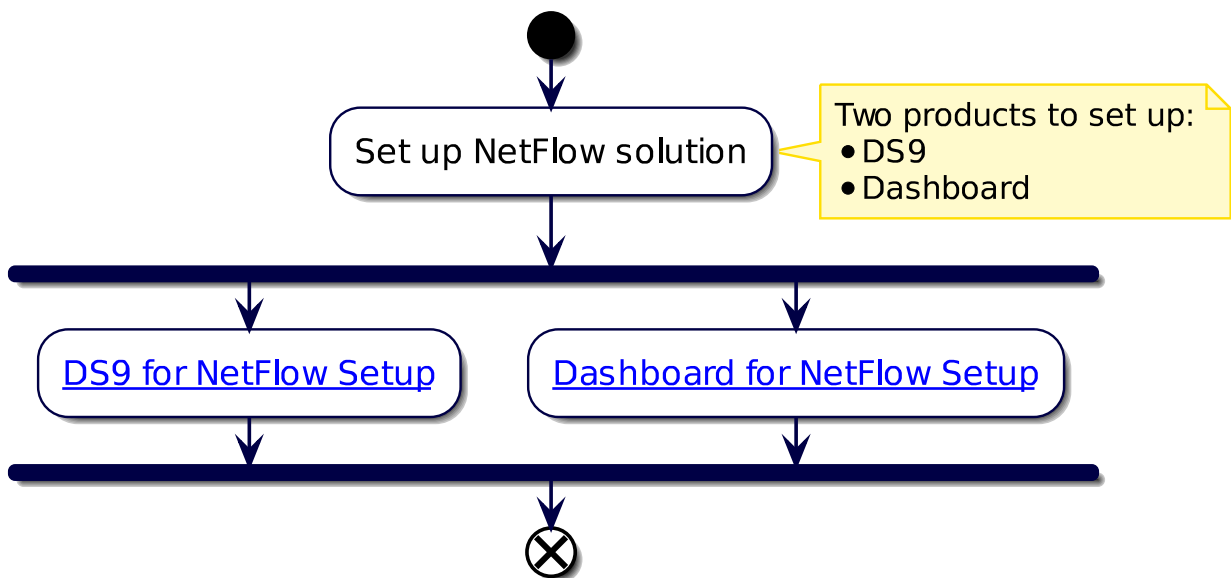
1.1. DS9 for NetFlow Install Guide: Release 25.2

- EKB-24083: Remove default admin:admin user created as part of Insights installation. See: [Deploy and VM installation](#)

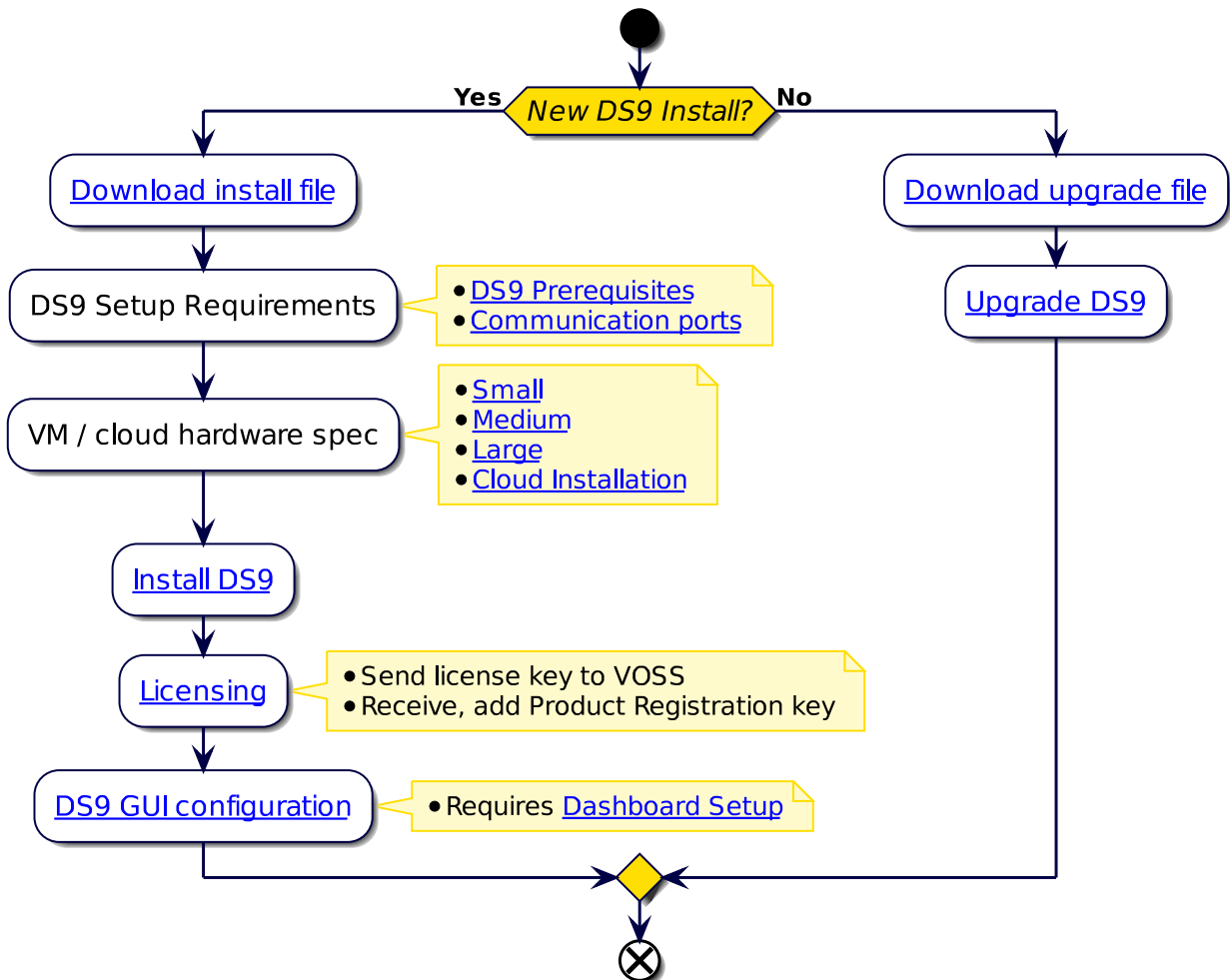
Added steps for creating GUI admin passwords for Arbitrator and Dashboard.

2. NetFlow Quickstart

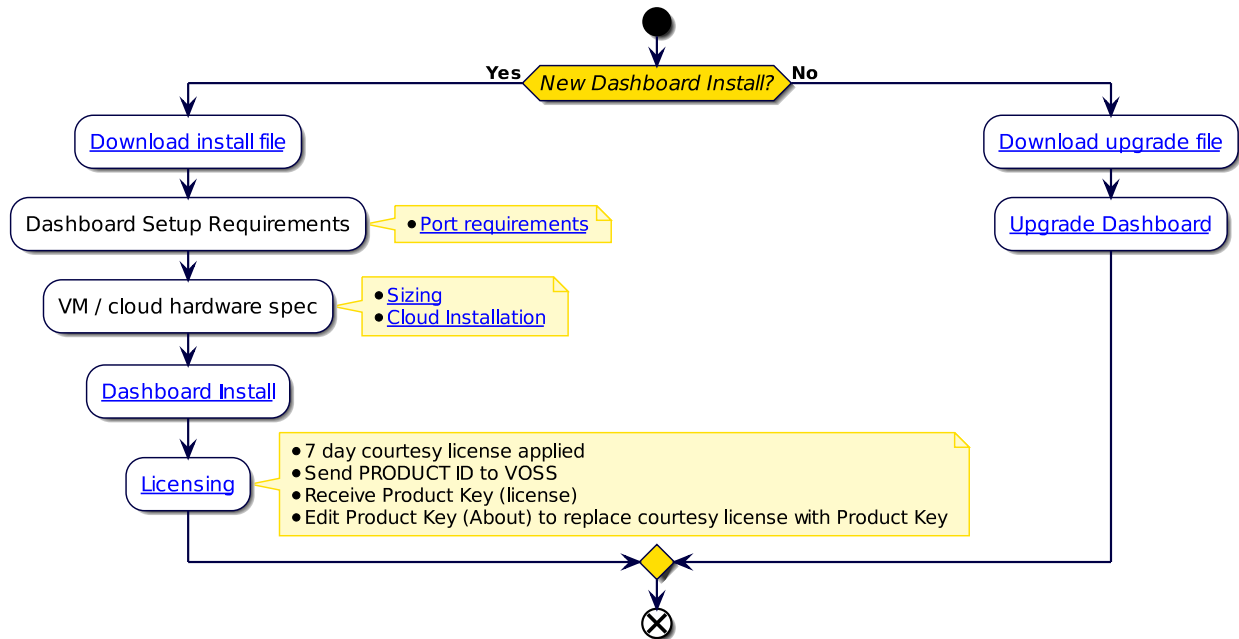
2.1. NetFlow Setup Overview



2.1.1. DS9 for NetFlow Setup



2.1.2. Dashboard for NetFlow Setup



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

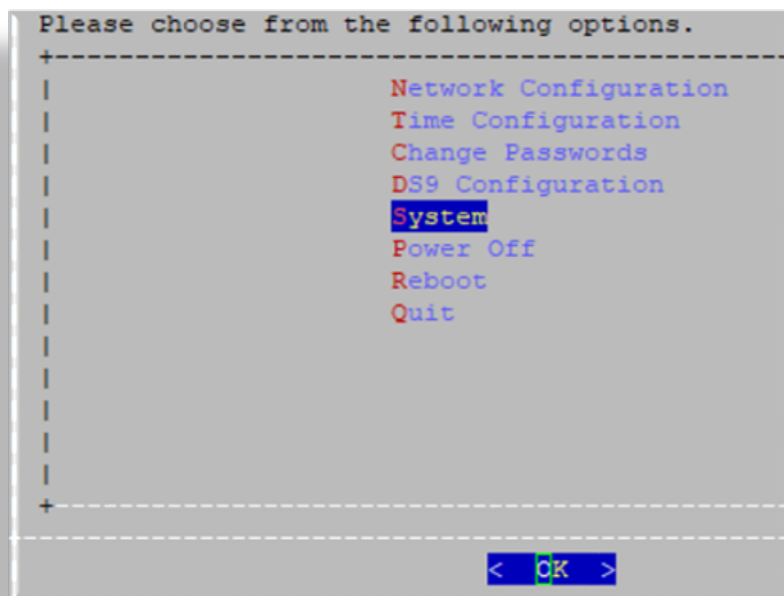
- DS9 OVA file:
 1. Log in on the [VOSS Customer Portal](#)
 2. Go to **Downloads > VOSS Insights > Insights DS9 Hawaii > <release number> > New Installation.**
 3. Download the .ova file
- DS9 upgrade file:

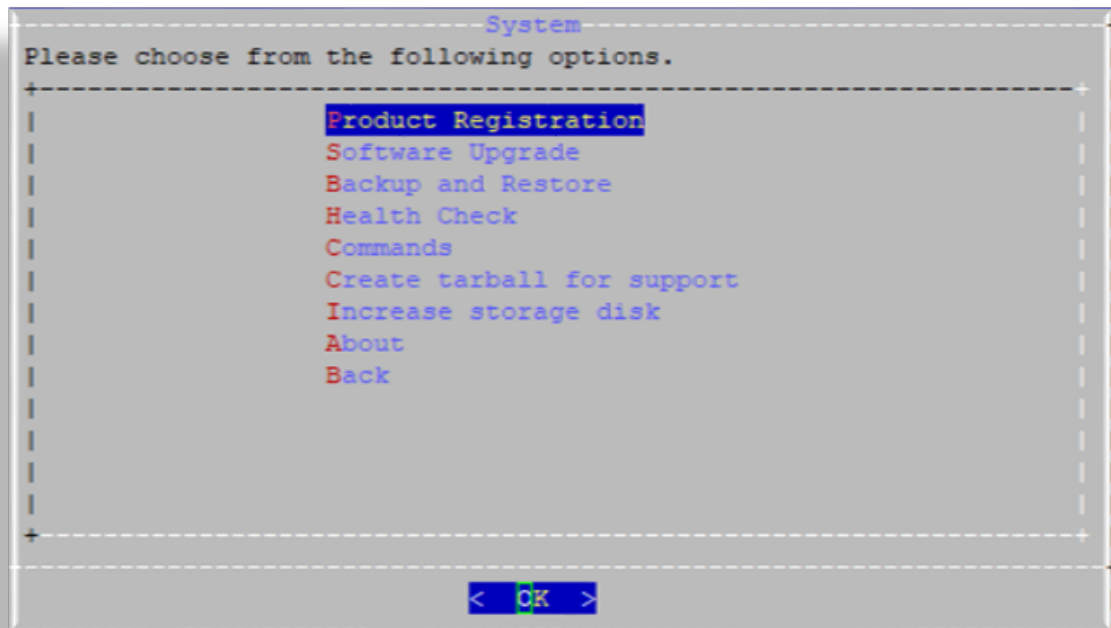
Log in on the [VOSS Customer Portal](#)

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

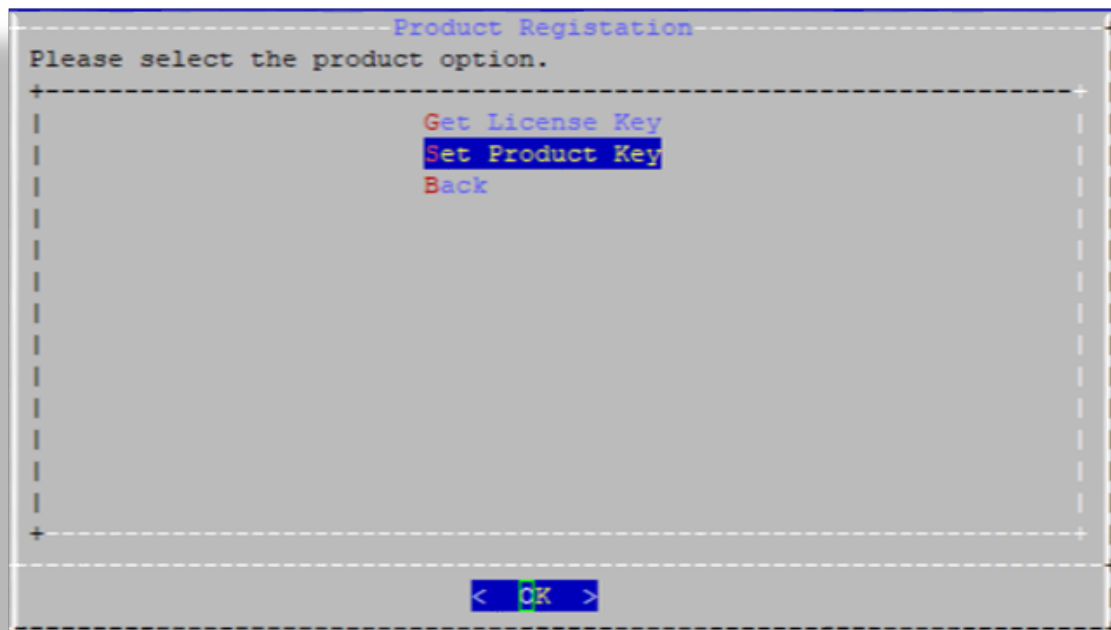
4. VOSS Insights DS9 for NetFlow Product Registration

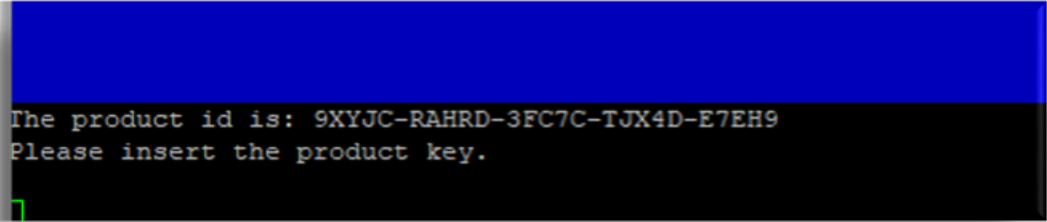
1. Connect to the DS9 server using an SSH client on port 22 and login using the admin credentials to access the **Administration** menu.
2. Select the **System > Product Registration** menu.





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



A terminal window with a blue header bar. The text displayed is "The product id is: 9XYJC-RAHRD-3FC7C-TJX4D-E7EH9" followed by "Please insert the product key." on the next line. A green cursor is visible at the start of the second line.

```
The product id is: 9XYJC-RAHRD-3FC7C-TJX4D-E7EH9
Please insert the product key.
```

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 specifications	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: <ul style="list-style-type: none"> • 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 implementation. 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 sources are configured to send their NetFlow data to VOSS DS9 Servers based on the suggested settings by VOSS	Critical
7	SNMP configuration	NetFlow sources are configured with SNMP v1 or 2c or v3.	Critical
8	NetFlow and SNMP details	Following information is provided to VOSS deployment team: <ul style="list-style-type: none"> • Device IP & Hostname and NetFlow version for the NetFlow source(s) • SNMP details for NetFlow source(s) 	Critical
9	Remote access	Some method of remote access is enabled for VOSS deployment team.	Critical
10	Integration to customer environment	Both DS9 and Dashboard Servers have access to customers data infrastructure for the following services: NTP, SMTP, DNS.	Critical
11	Authentication via existing customer resources	Dashboard Servers have access to customers' existing 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 Secondary 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 improve 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
		All Discs must be SSDs and Provisioned as Thick Eager Zero	

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	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	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 Equivalent)	
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 Power Supplies	
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	TCP	5432	Unidirectional	Data repository access
Dashboard Server	DS9	TCP	8082	Unidirectional	Data repository access
Dashboard Server	DS9	TCP	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	TCP	22	Unidirectional	SSH (remote CLI access) and file transfer
Admin users	Dashboard Server	TCP	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:

1. *Step 1: Download OVA*
2. *Step 2: Deploy the OVA*
3. *Step 3: Run the VM*
4. *Step 4: Log in to the Administration console*
5. *Step 5: Change the admin user password*
6. *Step 6: Configure network settings*
7. *Step 7: Create GUI admin password for Arbitrator and Dashboard*

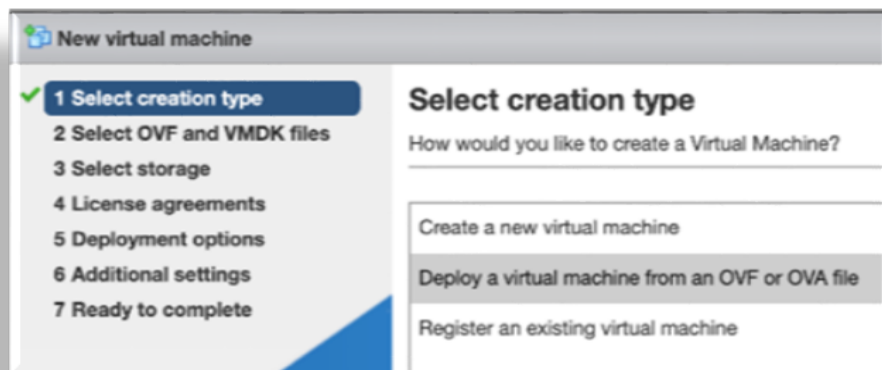
9.1.1. Step 1: Download OVA

1. Download the OVA for your system to a directory accessible by the VM client.

9.1.2. Step 2: Deploy the OVA

To deploy the OVA:

1. Select the downloaded OVA file, and choose a VM name.



2. On the **Select storage** menu, configure storage settings 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.

9.1.3. Step 3: Run the VM

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

```
Info: install_package : Unpacking /mnt/cd/pkg/iana-etc.lxp
Info: install_package : Unpacking /mnt/cd/pkg/nan-pages.lxp
Info: install_package : Unpacking /mnt/cd/pkg/attr.lxp
Info: install_package : Unpacking /mnt/cd/pkg/bc.lxp
Info: install_package : Unpacking /mnt/cd/pkg/berkeley-db.lxp
Info: install_package : Unpacking /mnt/cd/pkg/bglibs.lxp
Info: install_package : Unpacking /mnt/cd/pkg/bridge-utils.lxp
Info: install_package : Unpacking /mnt/cd/pkg/dhcpd.lxp
Info: install_package : Unpacking /mnt/cd/pkg/diffutils.lxp
Info: install_package : Unpacking /mnt/cd/pkg/dnapi.lxp
Info: install_package : Unpacking /mnt/cd/pkg/ethtool.lxp
Info: install_package : Unpacking /mnt/cd/pkg/expat.lxp
Info: install_package : Unpacking /mnt/cd/pkg/gmp.lxp
Info: install_package : Unpacking /mnt/cd/pkg/lsof.lxp
Info: install_package : Unpacking /mnt/cd/pkg/mdadm.lxp
Info: install_package : Unpacking /mnt/cd/pkg/ncurses.lxp
Info: install_package : Unpacking /mnt/cd/pkg/net-tools.lxp
Info: install_package : Unpacking /mnt/cd/pkg/patch.lxp
Info: install_package : Unpacking /mnt/cd/pkg/paxctl.lxp
Info: install_package : Unpacking /mnt/cd/pkg/perl-SSLeay.lxp
Info: install_package : Unpacking /mnt/cd/pkg/popt.lxp
Info: install_package : Unpacking /mnt/cd/pkg/speex.lxp
Info: install_package : Unpacking /mnt/cd/pkg/strace.lxp
Info: install_package : Unpacking /mnt/cd/pkg/tar.lxp
```

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

```
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
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.
Unable to obtain a lease on first try. Exiting.
useradd: user 'admin' already exists
mount: /mnt/target/dev: device is busy.
```

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

<hostname> login:

```

9.1.4. Step 4: Log in to the Administration console

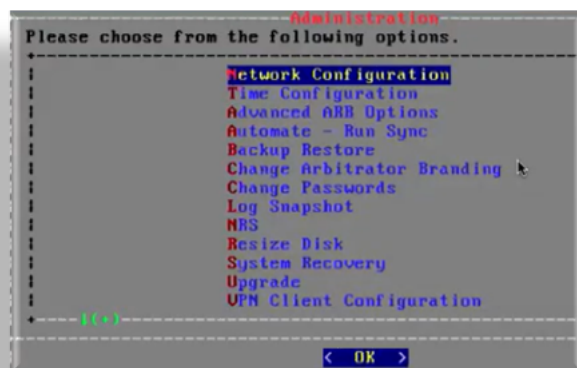
Once the system reboots, you'll need to provide admin user credentials to log in.

1. On the **About** console, at **<hostname> login:**, fill out username **admin**.
2. For the password, use the last *10 characters* of the value at **License**, *excluding the dash*.

Important: The **License** key value displays *only* on the **About** console. When you *ssh* in, it is not visible. For this reason, copy the admin password from the **About** console.

For security purposes, it is recommended that you update this admin password prior to configuring the VMs networking address.

3. View the **Administration** menu, which displays once you're logged in.



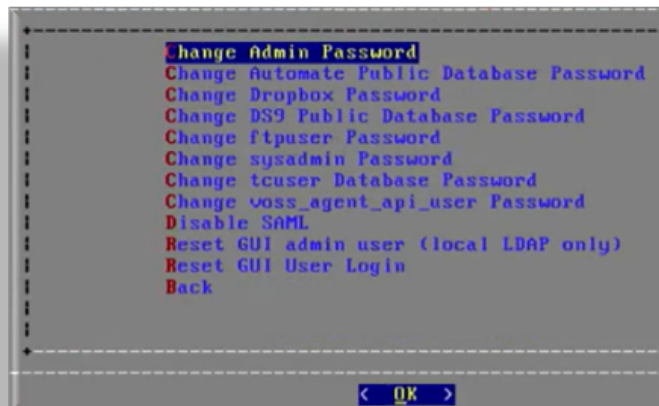
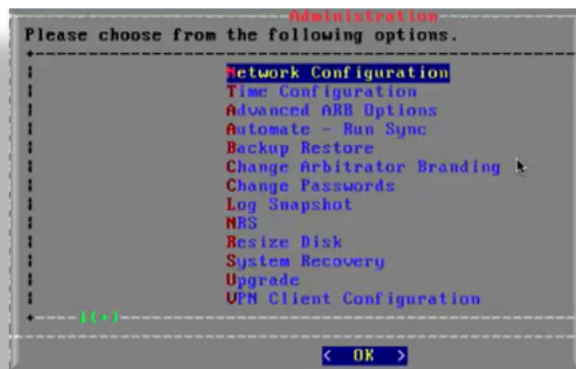
9.1.5. Step 5: Change the admin user password

This procedure updates the admin password that is set during the installation process, using the last 10 digits of your license key.

Note: The admin password will need to be updated for all Insights products you install. For security purposes, it is recommended that you update this admin password prior to configuring the VM networking address.

Once you update the password, it is strongly recommended that you make a written or digital copy of any system passwords and share the copies with trusted team members or store them in a secure location from where they may be retrieved if needed.

1. On the **Administration** menu, select **Change Passwords**.



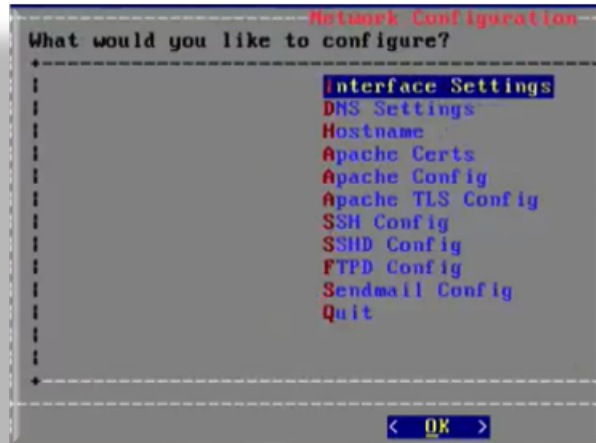
2. Select **Change Admin Password**.
3. Fill out a new password.
4. Save your changes.

Important: It is strongly recommended that you make a written or digital copy of any system passwords and share the copies with trusted team members or store them in a secure location from where they

may be retrieved if needed.

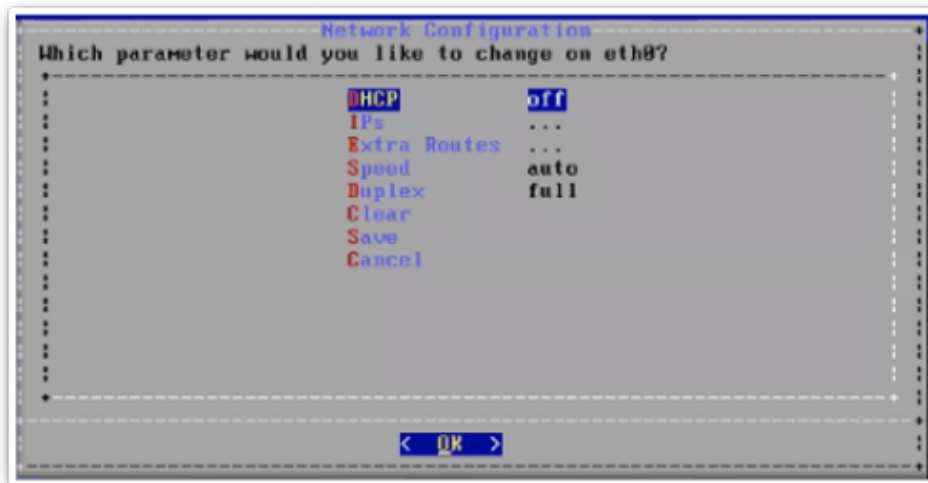
9.1.6. Step 6: Configure network settings

1. On the **Administration** menu, select **Network Configuration**.



2. Configure interface settings:

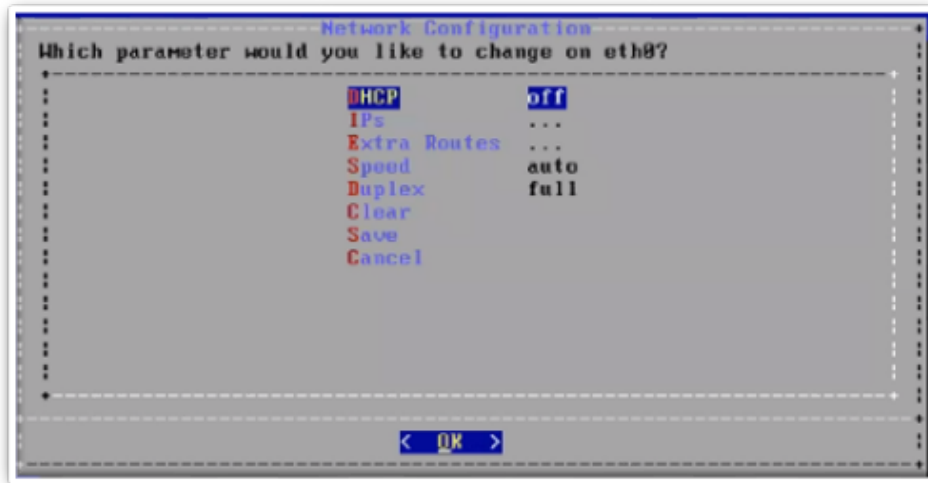
- i. Select **Interface Settings**.
- ii. Select the relevant interface.



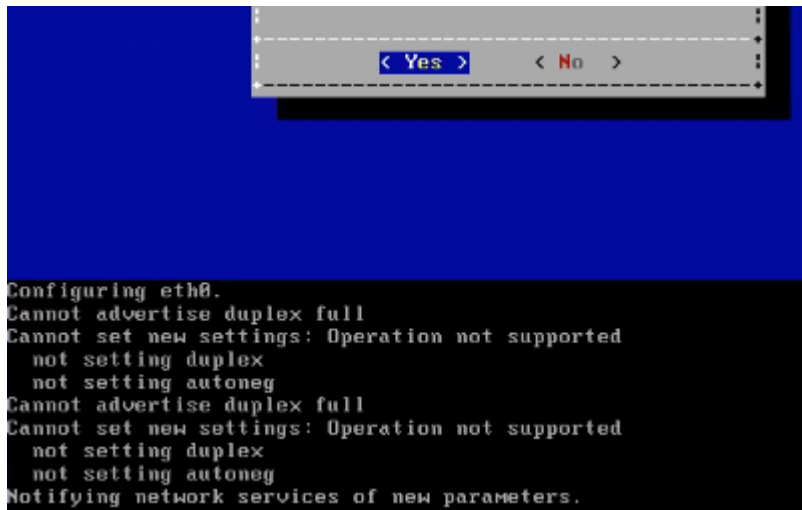
- iii. Select **IPs**. Set the IP address and netmask in the format `nn.nn.nn.nn/24`. Click **OK**.



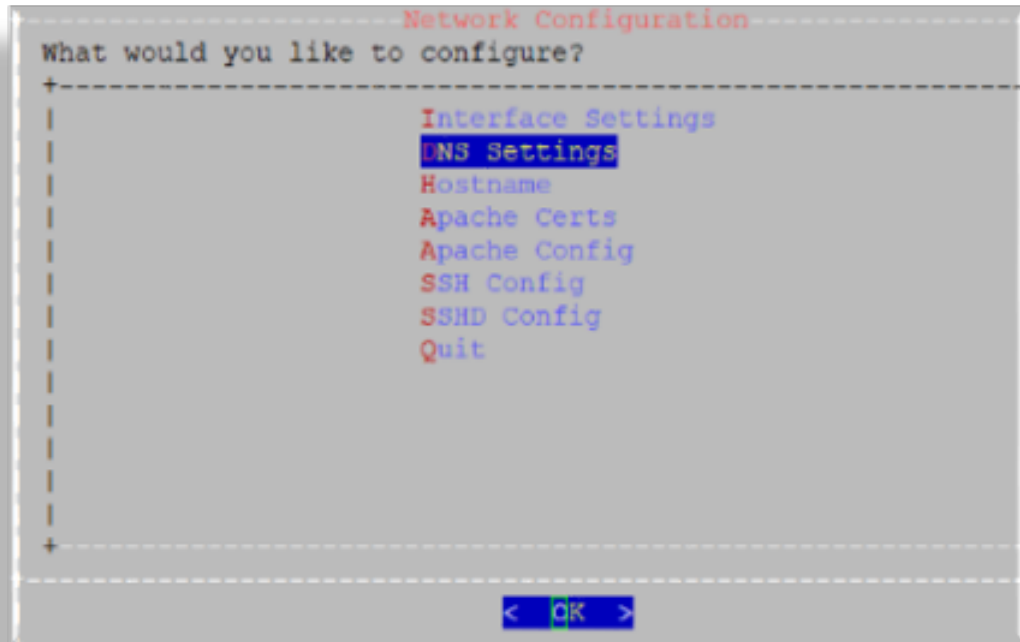
- iv. Select **Extra Routes** to configure the default gateway.



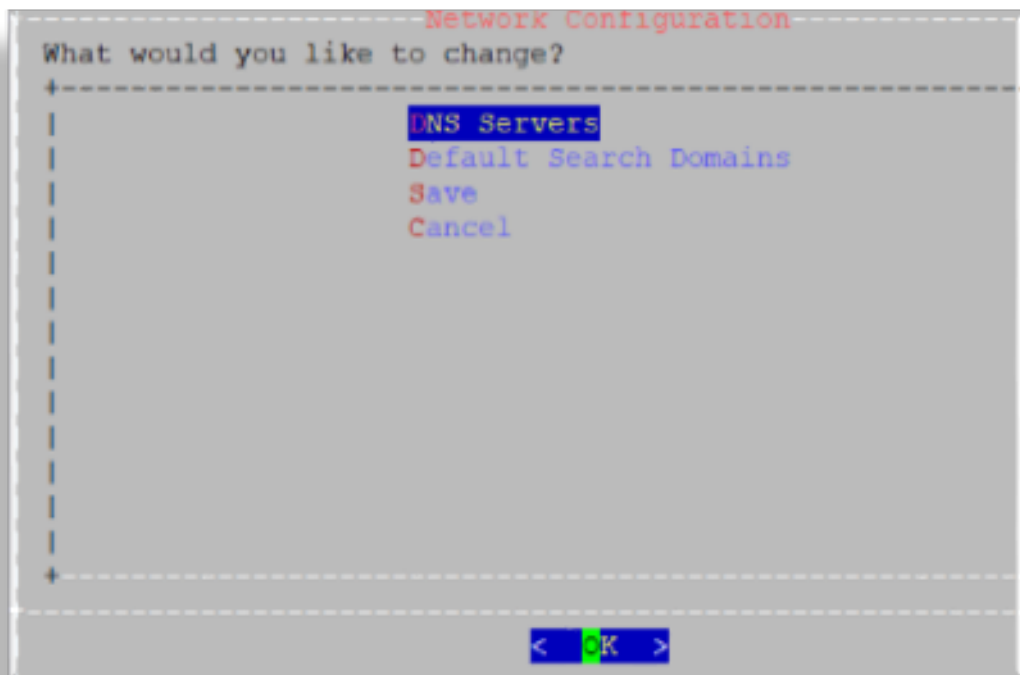
- Use the following format for the entry: *default* <gateway IP address>
- The word *default* is required. For additional route entries use the <subnet> <gateway> format. Similar to what would be done on a Linux system at the CLI.



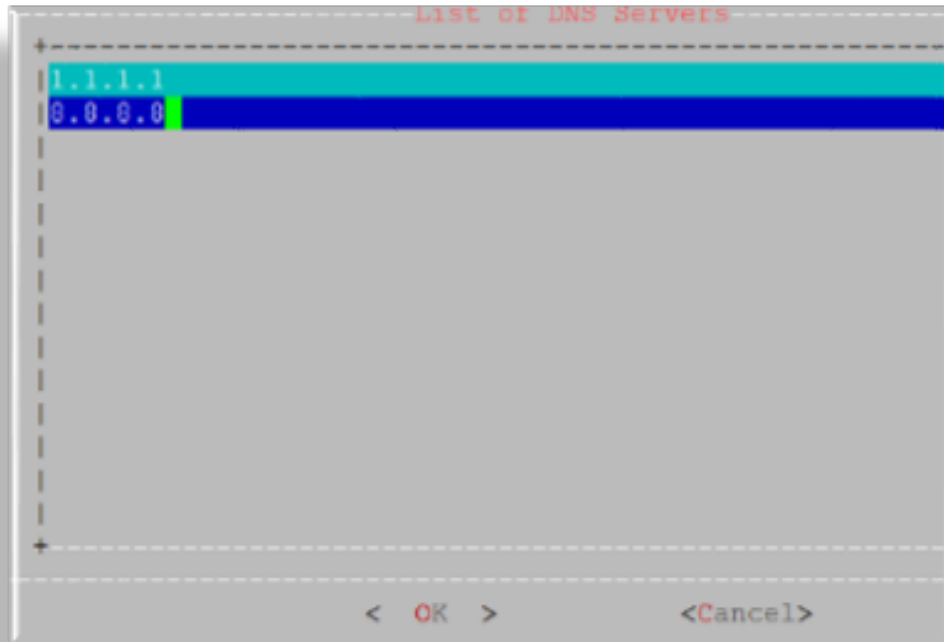
- v. Save your changes.
3. Configure DNS settings:
- i. Select **DNS Settings**



ii. Select **DNS Servers**.



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



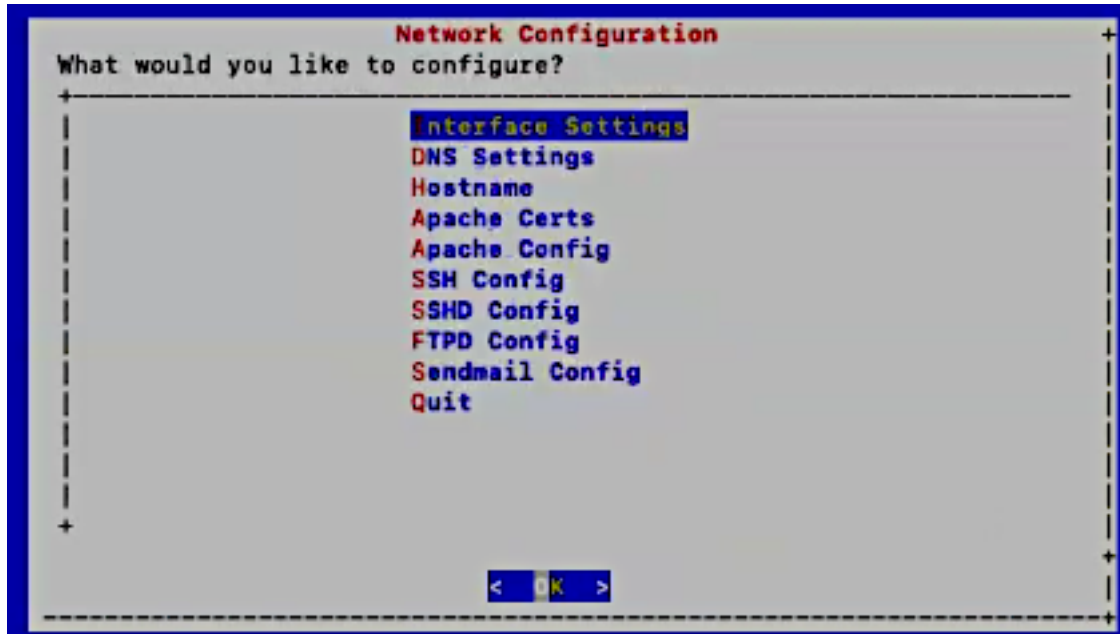
iv. Click **Save**.



4. Configure the hostname:

- i. Select **Hostname**.
- ii. Save to trigger the update.

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



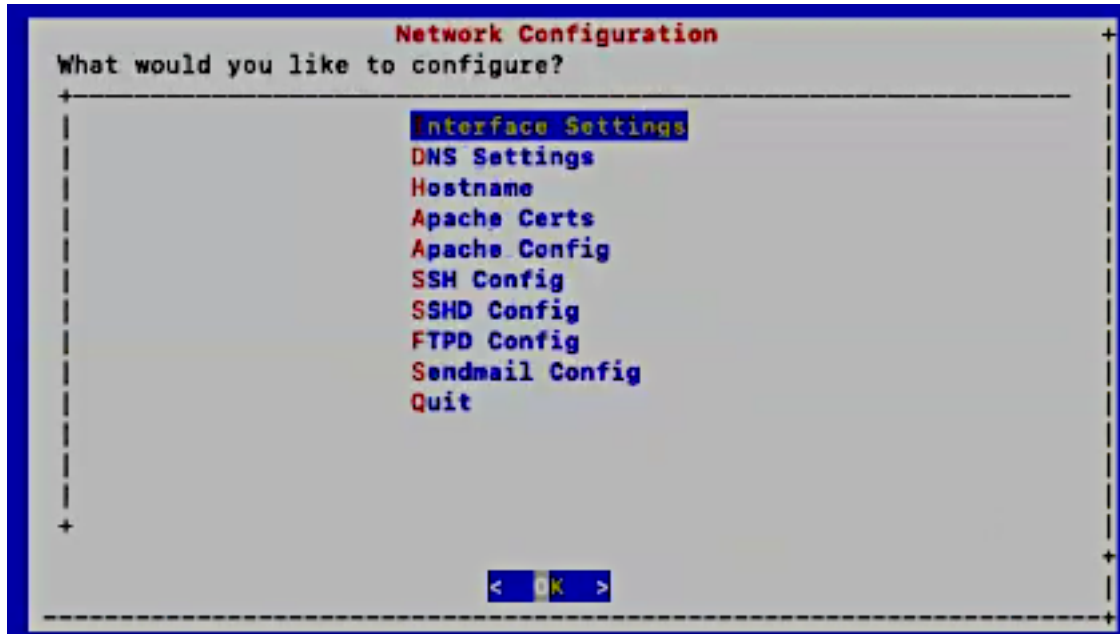
5. Update SSL ciphers.

i. Select **Apache Config**.

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.
- On system upgrade, if the contents of this configuration are no longer valid, then the contents will be reset to an empty state.



6. Configure SSH settings:

i. Select **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
```

Note: On system upgrade, if the contents of this configuration are no longer valid, the contents will be reset to an empty state.

7. Configure SSHD:

i. Select **SSHD Config**.

Note:

- Multi-line entries can be added, if required. For example, for CUCM v11.5 support, see: [Configure 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.
- On system upgrade, if the contents of this configuration are no longer valid, then the contents will be reset to an empty state.

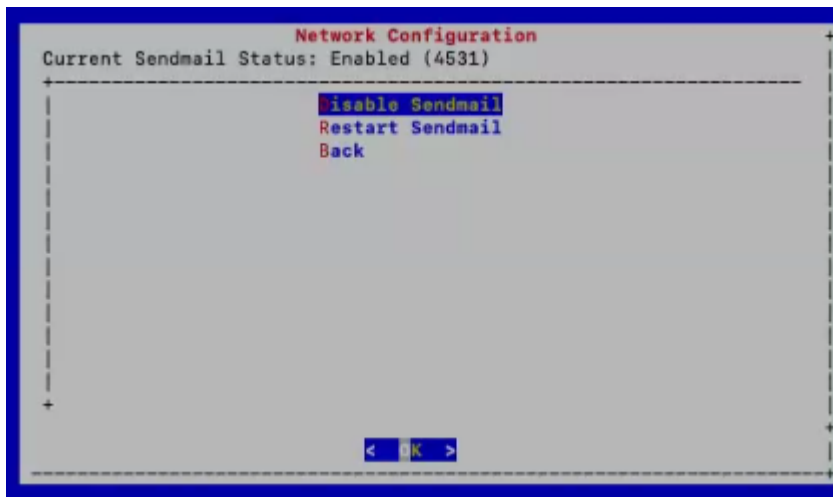
8. Enable/disable FTPD or restart the FTPD daemon:

1. 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.



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



- i. Select **Sendmail Config**. The current status of the service displays on the menu.
 - ii. Choose to enable, disable, or restart the service as required.
10. Base system installation is now complete. Select **Quit** to exit the **Administration** menu on the console.

Next steps

- *Step 7: Create GUI admin password for Arbitrator and Dashboard*

9.1.7. Step 7: Create GUI admin password for Arbitrator and Dashboard

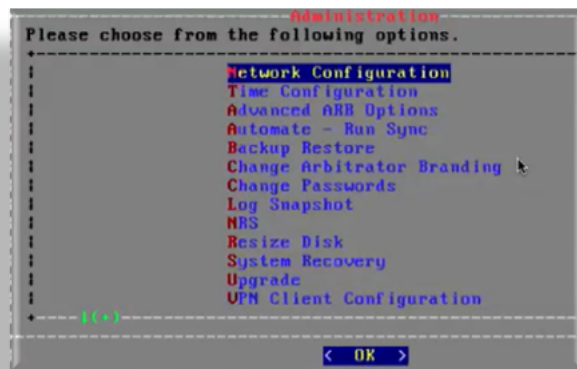
This procedure creates the GUI admin password, which is the password you will need to log in to Arbitrator or Dashboard via the browser.

The default credentials (admin:admin) will not allow browser access, so the GUI admin password must be set up for the Arbitrator and Dashboard systems. The procedure is the same for both Arbitrator and Dashboard.

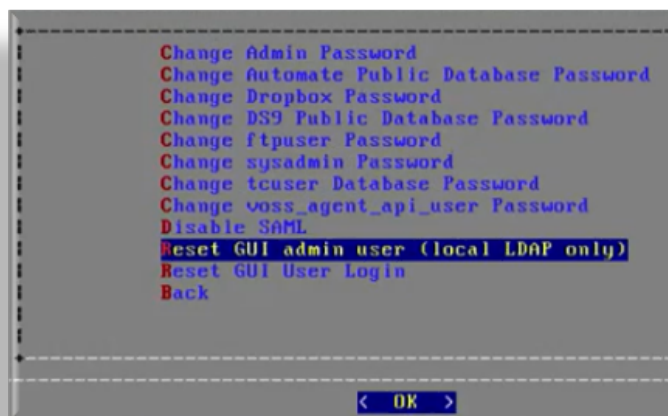
Important: It is strongly recommended that you make a written or digital copy of any system passwords and share the copies with trusted team members or store them in a secure location from where they may be retrieved if needed.

The steps to create the GUI admin password for Arbitrator and Dashboard are the same.

1. On the **Administration** menu, select **Change Passwords**.



2. Select **Reset GUI admin user (local LDAP only)**.



3. Fill out a new GUI admin password.

The GUI admin password cannot start with a number and must not contain the dollar (\$) symbol.



4. Log in to the Arbitrator / Dashboard via the browser, using the GUI admin user password created in this procedure.

Next steps

- *Product registration and system configuration*

9.2. Product registration and system configuration

Once you've installed and configured initial settings via the Administration console, you can continue with product registration, and with the configuration of your system through the GUI:

- 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.

9.3. Configure 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:

```
kexalgorithms diffie-hellman-group1-sha1,diffie-hellman-group14-sha1,diffie-hellman-
↪group-exchange-sha1
ciphers aes128-cbc,3des-cbc,aes128-ctr,aes192-ctr,aes256-ctr,aes128-gcm@openssh.com,
```

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```
↪ aes256-gcm@openssh.com  
macs hmac-md5,hmac-sha1,hmac-sha2-256,hmac-sha1-96,hmac-md5-96  
hostkeyalgorithms ssh-rsa,ssh-dss
```

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.

The screenshot shows the 'Configuration Settings' page with the 'DS9' tab selected. At the top, there is a navigation bar with buttons: Archive, DS9 (highlighted), DS9 Flow Summary, Import, LDAP, Sendmail, SNMP, Syslog, VOSS, and Widget Resources. Below this, there are 'Save' and 'Delete' buttons. On the left, a sidebar lists various configuration options: About info (highlighted), Automatic mapping updates, Display configuration, Flow device intake, Set monitor device, Remote database access, Remote database location, Remove DS9 from reporter, Service restart, Setup new DS9, and Snmp data collection for flow device. The main content area has a yellow banner stating 'Changes have been made to this configuration item'. Below this, the 'About info' section is visible, which includes the instruction 'Obtain information from the specified DS9.' and a form field for 'ds9IpAddress'. A 'Show' button is located below the form field.

Archive DS9 DS9 Flow Summary Import LDAP Sendmail SNMP Syslog VOSS Widget Resources

Save Delete

About info

Automatic mapping updates

Display configuration

Flow device intake

Set monitor device

Remote database access

Remote database location

Remove DS9 from reporter

Service restart

Setup new DS9

Snmp data collection for flow device

Changes have been made to this configuration item

About info

Obtain information from the specified DS9.

ds9IpAddress

Required - Ip address of DS9.

Show

Show

2. Choose **Setup new DS9**, add the **ds9IpAddress**, then click **Add**. Repeat this step according to the number of DS9 systems to be utilized in the environment.

ArchiveDS9DS9 Flow SummaryImportLDAPSendmailSNMPSyslogVOSSWidget Resources

SaveDelete

About infoAutomatic mapping updatesDisplay configurationFlow device intakeSet monitor deviceRemote database accessRemote database locationRemove DS9 from reporterService restartSetup new DS9Snmp data collection for flow device

Changes have been made to this configuration item

Setup new DS9

Base DS9 setup, configuration done on DS9 and dashboards and data sources created on reporter.

ds9IpAddress

172.30.42.193

Required - Ip address of DS9.

ldapPassword

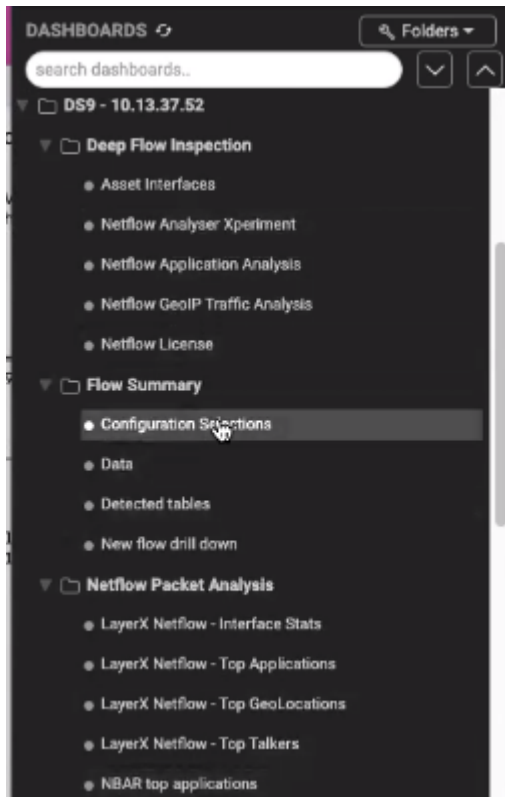
Required - Ldap password.

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 **ds9IpAddress**, **remotelpaddress** and **port** and click **Add**.

ArchiveDS9DS9 Flow SummaryImportLDAPSendmailSNMPSyslogVOSSWidget Resources

SaveDelete

About infoAutomatic mapping updatesDisplay configurationFlow device intakeSet monitor deviceRemote database accessRemote database locationRemove DS9 from reporterService restartSetup new DS9Snm data collection for flow device

Changes have been made to this configuration item

Flow device intake

To configure flow injection.

ds9IpAddress

172.28.254.31

Required - Ip address of DS9.

IdapPassword

Required - Ldap password.

Show

Show

Shows list of ip addresses configured to recieve flow.

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

Delete

Sends request to DS9, use Show for confirmation.

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

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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 **deviceIpAddress** 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 **deviceIpAddress** 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 **deviceIpAddress** and **snmplpAddr** fields is usually required for a new entry.

About info

Automatic mapping updates

AWS injection

Cisco AXL collection

Display configuration

Flow device intake

Set monitor device

Remote database access

Remote database location

Remove DS9 from reporter

Service restart

Setup new DS9

Snm data collection for flow device

Changes have been made to this configuration item

Snm data collection for flow device

Optional but allows for interface details to be displayed.

ds9IpAddress

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.

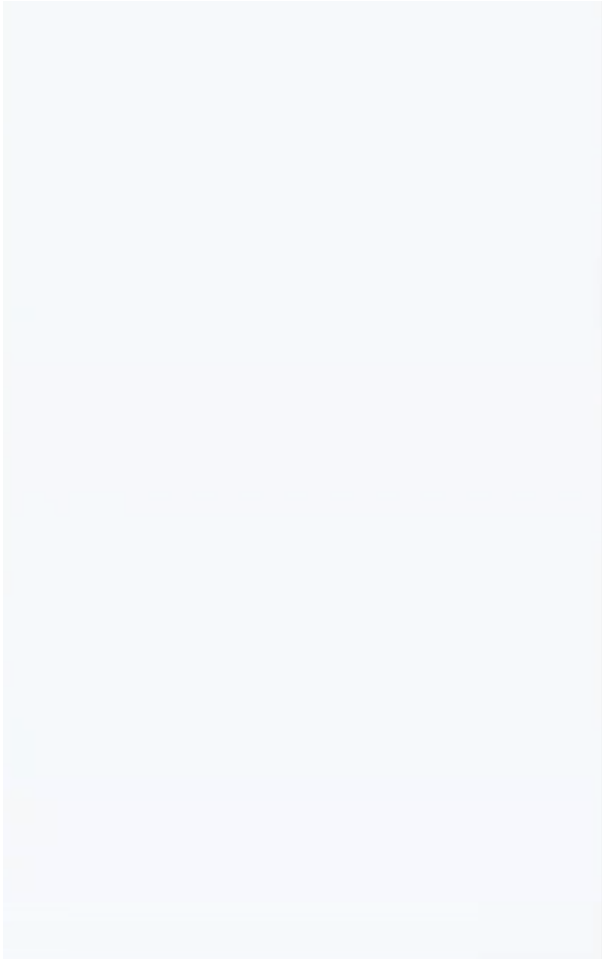
Show configured

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 m

snmplpAddr

Same as snmplpAddress above but can be different. Ex. For NAT.

userName

authProtocol

Select authentication protocol.

authPassPhrase

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Flowchart

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NetFlow Setup Quickstart, [2](#)