Pexip Infinity

Hyper-V Installation Guide

Software Version 33

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Contents

Introduction

This installation guide describes the minimum steps required to deploy and test a simple Pexip Infinity platform in a Hyper-V environment.

Full information on configuring and using Pexip Infinity is available:

- on the Pexip Infinity technical documentation website (from where all documentation can also be downloaded in PDF format)
- as online help, by clicking the **Help** link in the top right corner of the Pexip Infinity Administrator interface (available after the Management Node has been deployed).

You must ensure you have completed all necessary platform-based Planning and prerequisites prior to installation.

Configuring Hyper-V for Pexip Infinity

This section describes the Hyper-V configuration required before you install the Management Node or install a Conferencing Node.

Supported Hyper-V versions

Version 33 of Pexip Infinity supports Microsoft Hyper-V in the form of Microsoft Hyper-V Server 2012 and later, or Windows Server 2012 and later.

Prerequisites

You must have a suitable Hyper-V environment already installed.

Synchronizing time

Pexip Infinity uses NTP servers to obtain accurate system time. This is necessary to ensure correct operation, including configuration replication and log timestamps.

- All host servers **must** be synchronized with accurate time before you install the Management Node or Conferencing Nodes on them.
- NTP **must** be enabled on the Management Node VM before you deploy any Conferencing Nodes (this is done during installation of the Management Node).

We strongly recommend that you configure at least three distinct NTP servers or NTP server pools on all your host servers and the Management Node itself. This ensures that log entries from all nodes are properly synchronized.

The VMs hosting the Management Node and Conferencing Nodes use the UTC timezone, and all logs are in UTC. Do not attempt to change the timezone on these systems. Note however that the administrator web interface uses your local time.

In Hyper-V, all time synchronization is configured using the Active Domain Controller. You must ensure that all VMs and host servers are using the same time. Consult your Hyper-V documentation for information on how to do this in your environment.

Using a static MAC address for the Management Node

We recommend using a static MAC address for the virtual machine hosting your Management Node. This will ensure that the licenses on your Management Node do not become invalid if, for example, the node reboots and comes up on a different physical blade.

Creating an external virtual switch

You must create an external virtual switch on the host server to allow VMs on that host to access external network resources. To do this:

1. Log in to Hyper-V.
2. Right-click on the host server and select **Virtual Switch Manager...**.
   The Virtual Switch Manager window opens.
3. Select ***External*** and then **Create Virtual Switch**.
4. Enter a **Name** for the switch.
5. Either accept the default options, or select the options appropriate for your environment.
6. Select **Apply**.

Enabling automatic startup

By default, virtual machines deployed using Hyper-V are configured to restart automatically if they were running when the host server was shut down or powered off. We recommend that you leave this setting as is for the Management Node and all Conferencing Nodes.

Disabling processor compatibility mode

We strongly recommend that you disable processor compatibility mode on all Hyper-V Conferencing Node virtual machines. If processor compatibility mode is enabled, the Conferencing Node may assume it is running on older hardware, and may stop working, with the message **CPU instruction set is not supported; system will be placed in maintenance mode**.

For more information, see https://technet.microsoft.com/en-us/library/dn859550.aspx.

Installing the Management Node

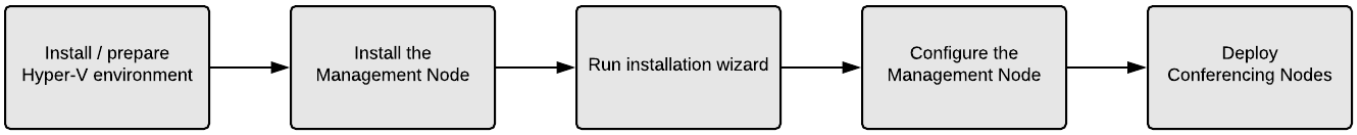
Before installing the Management Node we recommend that you review the Hyper-V configuration prerequisites and the Installation checklist.

Installation of the Management Node is a two-step process:

1. **Deploying the VM template**: this creates a new unconfigured instance of a generic Management Node VM.

   The process for deploying the template in a Microsoft Hyper-V hypervisor environment is described below.
2. **Running the installation wizard**: after deploying the Management Node template, the installation wizard allows you to enter the basic configuration details for your Management Node VM.

This flowchart provides an overview of the basic steps involved in deploying the Pexip Infinity platform on Hyper-V:



Deploying the Management Node template

The following instructions apply when using Hyper-V directly. If you are using System Center Virtual Machine Manager (SCVMM), you must import the .VHD into the library and then manually create a suitable VM template using it. This can then be launched on the relevant hypervisor.

To deploy a new instance of a Pexip InfinityManagement Node using Hyper-V:

1. Download the **Pexip Infinity ZIP** file (Pexip_Infinity_v33_HyperV_pxMgr_<build>.zip) from the Pexip download page, and extract the files.
2. Log in to Hyper-V.
3. Right-click on the host server and select **Import Virtual Machine...**.

   This starts the Import Virtual Machine wizard.
4. On the **Locate Folder** page, **Browse** to the folder containing the extracted files and select **Next**.

   You are taken to the **Select Virtual Machine** page.
5. The wizard automatically detects the folder and file containing the Management Node VM. Confirm that this is correct and select **Next**.

   You are taken to the **Choose Import Type Page**.
6. Select the type of import most appropriate for your environment (if you are unsure, select **Restore the virtual machine**). Select **Next**.
7. Depending on the import type you have chosen, you may be asked for further information. Follow the prompts as required.

   When the setup is complete, you are taken to the **Completing Import Wizard** page.
8. Review the summary and select **Finish**.

When the Management Node VM has been created successfully, it will appear in the list of Virtual Machines.

Enabling automatic startup

By default, virtual machines deployed using Hyper-V are configured to restart automatically if they were running when the host server was shut down or powered off. We recommend that you leave this setting as is for the Management Node and all Conferencing Nodes.

Running the installation wizard

To run the installation wizard, which configures the Management Node, you must open a console window on the Management Node VM.

Opening a console window

1. Log in to Hyper-V.
2. Start the new Management Node VM (if it is not already running).
3. Right-click on the new Management Node VM and select **Connect...**.

Running the installation wizard

1. At the prompt, enter the username ***admin***.

   The display reads:

   ```
   You are required to change your password immediately (root enforced)
   Enter new UNIX password:
   ```

2. Create a password for the Management Node operating system by typing the password, pressing Enter, retyping the password, and pressing Enter again.
3. Ensure you record the password in a secure location. After you have finished running the installation wizard you will not need the password again unless you need to access the Management Node using SSH.

   You are presented with another login prompt:

   ```
   [sudo] password for admin:
   ```

4. Log in again with the password you just created.

   The Pexip installation wizard starts.
5. Follow the prompts to set the following configuration for the Management Node.

   If you press enter, the default value is applied:

Setting	Default value	Multiple entries allowed?	Can be changed via Pexip Infinity Administrator interface?
IP address	As assigned by DHCP, otherwise 192.168.0.100 *	No	No ‡
Network mask	As assigned by DHCP, otherwise 255.255.255.0 *	No	No ‡
Gateway	As assigned by DHCP, otherwise 192.168.0.1 *	No	No ‡
Hostname	As assigned by DHCP, otherwise <no default>	No	No ‡
Domain suffix	As assigned by DHCP, otherwise <no default>	No	No ‡
DNS servers	As assigned by DHCP, otherwise 8.8.8.8	Yes, if separated by a space or comma	Yes
NTP servers †	As assigned by DHCP, otherwise two of the following: ◦ 0.pexip.pool.ntp.org ◦ 1.pexip.pool.ntp.org ◦ 2.pexip.pool.ntp.org ◦ 3.pexip.pool.ntp.org	Yes, if separated by a space or comma	Yes
Web administration username	admin	No	No ‡
Web administration password	<no default>	No	Yes
Enable incident reporting (yes/no)	<no default>		Yes

Setting	Default value	Multiple entries allowed?	Can be changed via Pexip Infinity Administrator interface?
Contact email address **	<no default>	No	Yes
Send deployment and usage statistics to Pexip (yes/no)	<no default>		Yes

* The addresses entered here are assigned as static IP addresses.

** Shown and required if incident reporting is enabled.

† The NTP server must be accessible by the Management Node at the time the startup wizard is run. Installation will fail if the Management Node is unable to synchronize its time with an NTP server.

‡ After they have been configured, do not attempt to change these settings by any other means. To change these settings on server-based deployments, you must re-run the installation wizard.

The installation begins and the Management Node restarts using the values you have configured.

Initial platform configuration

After you have run the installation wizard, you must perform some preliminary configuration of the Pexip Infinity platform before you can deploy a Conferencing Node.

This section lists the configuration required, and provides a summary of each step with a link to further information.

All configuration should be done using the Pexip Infinity Administrator interface.

No changes should be made to any Pexip VM via the terminal interface (other than as described when running the initial Pexip installation wizard) unless directed to do so by Pexip support. This includes (but is not limited to) changes to the time zone, changes to IP tables, configuration of Ethernet interfaces, or the installation of any third-party code/applications.

Accessing the Pexip Infinity Administrator interface

The Pexip Infinity Administrator interface is hosted on the Management Node. To access this:

1. Open a web browser and type in the IP address or DNS name that you assigned to the Management Node using the installation wizard (you may need to wait a minute or so after installation is complete before you can access the Administrator interface).
2. Until you have uploaded appropriate TLS certificates to the Management Node, your browser may present you with a warning that the website's security certificate is not trusted. You should proceed, but upload appropriate TLS certificates to the Management Node (and Conferencing Nodes, when they have been created) as soon as possible.

   The **Pexip Infinity Conferencing Platform** login page will appear.
3. Log in using the web administration username and password you set using the installation wizard.

You are now ready to begin configuring the Pexip Infinity platform and deploying Conferencing Nodes.

As a first step, we strongly recommend that you configure at least 2 additional NTP servers or NTP server pools to ensure that log entries from all nodes are properly synchronized.

It may take some time for any configuration changes to take effect across the Conferencing Nodes. In typical deployments, configuration replication is performed approximately once per minute. However, in very large deployments (more than 60 Conferencing Nodes), configuration replication intervals are extended, and it may take longer for configuration changes to be applied to all Conferencing Nodes (the administrator log shows when each node has been updated).

Brief details of how to perform the initial configuration are given below. For complete information on how to configure your Pexip Infinity solution, see the Pexip Infinity technical documentation website at docs.pexip.com.

Configuring the Pexip Infinity platform

This table lists the Pexip Infinity platform configuration steps that are required before you can deploy Conferencing Nodes and make calls.

Configuration step	Purpose
1. Enable DNS **(System > DNS Servers)**	Pexip Infinity uses DNS to resolve the hostnames of external system components including NTP servers, syslog servers, SNMP servers and web proxies. It is also used for call routing purposes — SIP proxies, gatekeepers, external call control and conferencing systems and so on. The address of at least one DNS server must be added to your system. You will already have configured at least one DNS server when running the install wizard, but you can now change it or add more DNS servers.

Configuration step	Purpose
2. Enable NTP **(System > NTP Servers)**	Pexip Infinity uses NTP servers to obtain accurate system time. This is necessary to ensure correct operation, including configuration replication and log timestamps. We strongly recommend that you configure at least three distinct NTP servers or NTP server pools on all your host servers and the Management Node itself. This ensures that log entries from all nodes are properly synchronized. You will already have configured at least one NTP server when running the install wizard, but you can now change it or add more NTP servers.
3. Add licenses **(Platform > Licenses)**	You must install a system license with sufficient concurrent call capacity for your environment before you can place calls to Pexip Infinity services.
4. Add a system location **(Platform > Locations)**	These are labels that allow you to group together Conferencing Nodes that are in the same datacenter. You must have at least one location configured before you can deploy a Conferencing Node.
5. Upload TLS certificates **(Certificates > TLS Certificates)**	You must install TLS certificates on the Management Node and — when you deploy them — each Conferencing Node. TLS certificates are used by these systems to verify their identity to clients connecting to them. All nodes are deployed with self-signed certificates, but we strongly recommend they are replaced with ones signed by either an external CA or a trusted internal CA.
6. Add Virtual Meeting Rooms **(Services > Virtual Meeting Rooms)**	Conferences take place in Virtual Meeting Rooms and Virtual Auditoriums. VMR configuration includes any PINs required to access the conference. You must deploy at least one Conferencing Node before you can call into a conference.
7. Add an alias for the Virtual Meeting Room (done while adding the Virtual Meeting Room)	A Virtual Meeting Room or Virtual Auditorium can have more than one alias. Conference participants can access a Virtual Meeting Room or Virtual Auditorium by dialing any one of its aliases.

Deploying a Conferencing Node

This process generates a configuration file that then must be deployed from within Hyper-V.

Note that:

- This file is specific to the Conferencing Node being deployed. It cannot be used to deploy multiple Conferencing Nodes.
- The file is single-use. It cannot be used to re-deploy the same Conferencing Node at a later date. To re-deploy the Conferencing Node, you must first delete it from the Pexip Infinity Management Node and from VMware, and then deploy a new Conferencing Node with the same configuration as the deleted node.
- Before you start, ensure that you are currently using the same machine that you will subsequently use to upload the generated file on to your host server.

Generating, downloading and deploying the configuration file

1. From the Pexip Infinity Administrator interface, go to **Platform > Conferencing Nodes** and select **Add Conferencing Node**.
2. You are now asked to provide the network configuration to be applied to the Conferencing Node, by completing the following fields:

Option	Description
Name	Enter the name to use when referring to this Conferencing Node in the Pexip Infinity Administrator interface.
Description	An optional field where you can provide more information about the Conferencing Node.
Role	This determines the Conferencing Node's role: ◦ ***Proxying Edge Node***: a Proxying Edge Node handles all media and signaling connections with an endpoint or external device, but does not host any conferences — instead it forwards the media on to a Transcoding Conferencing Node for processing. ◦ ***Transcoding Conferencing Node***: a Transcoding Conferencing Node handles all the media processing, protocol interworking, mixing and so on that is required in hosting Pexip Infinity calls and conferences. When combined with Proxying Edge Nodes, a transcoding node typically only processes the media forwarded on to it by those proxying nodes and has no direct connection with endpoints or external devices. However, a transcoding node can still receive and process the signaling and media directly from an endpoint or external device if required.
Hostname Domain	Enter the hostname and domain to assign to this Conferencing Node. Each Conferencing Node and Management Node must have a unique hostname. The Hostname and Domain together make up the Conferencing Node's DNS name or FQDN. We recommend that you assign valid DNS names to all your Conferencing Nodes.
IPv4 address	Enter the IP address to assign to this Conferencing Node when it is created.
Network mask	Enter the IP network mask to assign to this Conferencing Node. Note that **IPv4 address** and **Network mask** apply to the eth0 interface.
Gateway IPv4 address	Enter the IP address of the default gateway to assign to this Conferencing Node. Note that the **Gateway IPv4 address** is not directly associated with a network interface, except that the address entered here lies in the subnet in which either eth0 or eth1 is configured to use. Thus, if the gateway address lies in the subnet in which eth0 lives, then the gateway will be assigned to eth0, and likewise for eth1.
Secondary interface IPv4 address	The optional secondary interface IPv4 address for this Conferencing Node. If configured, this interface is used for signaling and media communications to clients, and the primary interface is used for communication with the Management Node and other Conferencing Nodes.

Option	Description
Secondary interface network mask	The optional secondary interface network mask for this Conferencing Node. Note that **Secondary interface IPv4 address** and **Secondary interface network mask** apply to the eth1 interface.
System location	Select the physical location of this Conferencing Node. A system location should not contain a mixture of proxying nodes and transcoding nodes. If the system location does not already exist, you can create a new one here by clicking + to the right of the field. This will open up a new window showing the **Add System Location** page.
SIP TLS FQDN	A unique identity for this Conferencing Node, used in signaling SIP TLS Contact addresses.
TLS certificate	The TLS certificate to use on this node. This must be a certificate that contains the above **SIP TLS FQDN**. Each certificate is shown in the format **<subject name> (<issuer>)**.
IPv6 address	The IPv6 address for this Conferencing Node. Each Conferencing Node must have a unique IPv6 address.
Gateway IPv6 address	The IPv6 address of the default gateway. If this is left blank, the Conferencing Node listens for IPv6 Router Advertisements to obtain a gateway address.
IPv4 static NAT address	The public IPv4 address used by this Conferencing Node when it is located behind a NAT device. Note that if you are using NAT, you must also configure your NAT device to route the Conferencing Node's **IPv4 static NAT address** to its **IPv4 address**.
Static routes	From the list of **Available Static routes**, select the routes to assign to the node, and then use the right arrow to move the selected routes into the **Chosen Static routes** list.
Enable distributed database	This should usually be enabled (checked) for all Conferencing Nodes that are expected to be "always on", and disabled (unchecked) for nodes that are expected to only be powered on some of the time (e.g. nodes that are likely to only be operational during peak times).
Enable SSH	Determines whether this node can be accessed over SSH. ***Use Global SSH setting***: SSH access to this node is determined by the global **Enable SSH** setting (**Platform > Global Settings > Connectivity > Enable SSH**). ***Off***: this node cannot be accessed over SSH, regardless of the global **Enable SSH** setting. ***On***: this node can be accessed over SSH, regardless of the global **Enable SSH** setting. Default: ***Use Global SSH setting***.

3. Select **Save**.
4. You are now asked to complete the following fields:

Option	Description
Deployment type	Select ***Manual (Hyper-V)***.
Number of virtual CPUs to assign	Enter the number of virtual CPUs to assign to the Conferencing Node. We recommend no more than one virtual CPU per physical core, unless you are making use of CPUs that support Hyper-Threading.
System memory (in megabytes) to assign	Enter the amount of RAM (in megabytes) to assign to the Conferencing Node. The number entered must be a multiple of 4. We recommend 1024 MB (1 GB) RAM for each virtual CPU. The field automatically defaults to the recommended amount, based on the number of virtual CPUs you have entered.

Option	Description
SSH password	Enter the password to use when logging in to this Conferencing Node's Linux operating system over SSH. The username is always ***admin***. Logging in to the operating system is required when changing passwords or for diagnostic purposes only, and should generally be done under the guidance of your Pexip authorized support representative. In particular, do not change any configuration using SSH — all changes should be made using the Pexip Infinity Administrator interface.

5. Select **Download**.
   A message appears at the top of the page: "The Conferencing Node image will download shortly or click on the following link".
   After a short while, a ZIP file with the name **pexip-<hostname>.<domain>.zip** is generated and downloaded.
   Note that the generated file is only available for your current session so you should download it immediately.
6. When you want to deploy the Conferencing Nodes:
   a. Copy the ZIP file to the server running Hyper-V and unzip it.
      There is a subfolder called **Virtual Machines** containing an XML file which contains the configuration for the Conferencing Node VM.
   b. Open the Hyper-V Manager and select **Import Virtual Machine...**.
   c. Follow the on-screen prompts to deploy the Conferencing Node VM.
      When prompted, select the **Virtual Machines** folder and the Hyper-V manager will automatically discover the XML file.
      Select the type of import most appropriate for your environment (if you are unsure, select **Restore the virtual machine**).

After deploying a new Conferencing Node, it takes approximately 5 minutes before the node is available for conference hosting and for its status to be updated on the Management Node. Until it becomes available, the Management Node reports the status of the Conferencing Node as having a last contacted and last updated date of "Never". "Connectivity lost between nodes" alarms relating to that node may also appear temporarily.

Enabling automatic startup

By default, virtual machines deployed using Hyper-V are configured to restart automatically if they were running when the host server was shut down or powered off. We recommend that you leave this setting as is for the Management Node and all Conferencing Nodes.

Disabling processor compatibility mode

We strongly recommend that you disable processor compatibility mode on all Hyper-V Conferencing Node virtual machines. If processor compatibility mode is enabled, the Conferencing Node may assume it is running on older hardware, and may stop working, with the message **CPU instruction set is not supported; system will be placed in maintenance mode**.

For more information, see https://technet.microsoft.com/en-us/library/dn859550.aspx.

Testing and next steps after initial installation

After you have completed your installation and initial configuration of Pexip Infinity, you can make a test call to check that your system is working. You can also extend your deployment by integrating it with other call control or third-party systems, or by customizing the user experience. You should also consider how to let your users know about their new video conferencing service.

Making a test call

When you have deployed a Conferencing Node and configured a Virtual Meeting Room and an alias, you can make a test call to check that your system is working.

An easy way to do this is by using the Connect web app to dial the alias of one of the Virtual Meeting Rooms you've already created. Full details of how to use the Connect web app are given in Using Connect web apps, but in summary:

1. Open a browser (we recommend Chrome or Edge) and type in the IP address (or FQDN, if you've set it up already) of one of the Conferencing Nodes.
   - If your browser displays a security warning, this means that it does not trust the Conferencing Node's certificate. This could be because you have not replaced the node's default self-signed certificate, or you have used your own private certificates that have not been signed by an external Certificate Authority.
2. When prompted, enter your name.
3. In the **Meeting ID** field, enter the alias of the Virtual Meeting Room you are using for testing.
4. Ensure that you have selected the camera and microphone you wish to use, and they are working correctly:
   - You should see your own image in the video window.
   - The microphone icon shows a green bar to indicate the level of audio being detected. To join without your audio, select the microphone icon; this will change to to indicate that your microphone is off.
5. Select **Join**.
6. From another device, join the conference in the same way.

The two participants should be able to see and hear each other, and share content.

See About the Connect web app for more information.

Further configuration

You are now ready to continue configuring the Pexip Infinity platform and services and deploying more Conferencing Nodes.

Specifically, you should now do the following:

- Assigning hostnames and FQDNs
- Enabling SNMP on Conferencing Nodes

At some point you may also want to:

- integrate the Pexip Infinity platform with your call control system
- configure the Pexip Infinity Distributed Gateway
- register devices directly to the Pexip Infinity platform
- customize the user experience

Integrating with a call control system

To integrate Pexip Infinity with your call control system, you must configure a trunk or neighbor zone towards each of the Conferencing Nodes.

For further information about how to configure your specific call management system to work with Pexip Infinity, see the following documentation:

- Pexip Infinity and Microsoft Skype for Business / Lync Deployment Guide
- Pexip Infinity and Cisco VCS Deployment Guide
- Pexip Infinity and Cisco Unified Communications Manager Deployment Guide
- Pexip Infinity and Polycom DMA Deployment Guide

Configuring the Pexip Infinity Distributed Gateway

The Pexip Infinity Distributed Gateway ("Infinity Gateway") enables endpoints to make calls to other endpoint devices or systems. This includes calls between devices that use different protocols and media formats, such as SIP and H.323 systems, Skype for Business clients (MS-SIP), and Connect app clients (WebRTC). It also enables you to route calls from VTCs and standards-based endpoints into an externally-hosted conference, such as a Microsoft Teams or Skype for Business meeting, or Google Meet.

Registering devices directly to the Pexip Infinity platform

SIP and H.323 endpoints, and some Connect app clients can register directly to Pexip Infinity Conferencing Nodes. This allows Pexip Infinity to route outbound calls to those registered devices without having to go via a SIP proxy or H.323 gatekeeper, or rely on DNS.

Customizing the user experience

You can easily apply your own corporate branding to the Pexip Infinity platform, and produce a personalized user experience for all of your Pexip Infinity services.

Informing users about the new video conferencing service

Finally, you'll need to let your end users know about the new video conferencing services available to them, and how they can use it. The following end user guides are available:

- Using your Virtual Meeting Room
- Using the Connect web apps
- Using the Connect desktop app
- Using the Connect mobile app

We also have provided some Example emails for sending to new users, which you can use as a basis for the information you provide to your users.

Pexip Infinity installation checklist

Use this checklist to identify the key tasks involved in preparing for and deploying the Pexip Infinity platform. Also, there is a configuration datasheet below to help you gather the key network and configuration information required.

Prior to installation

1. Download the appropriate Pexip Infinity Management Node installation file from the Pexip download page.
2. Ensure that you have appropriate host servers (see Server design guidelines).
3. Assign network IP addresses and host names for the Management Node and Conferencing Nodes.
4. Create DNS records for your Management Node administration.
5. Create DNS records to allow endpoints/clients to discover your Pexip Infinity Conferencing Nodes (see DNS record examples).
6. Generate or request certificates (Base64-encoded X.509 PEM format) for the Management Node and Conferencing Nodes (see guidelines at Certificate creation and requirements).

Hypervisor / host servers

1. Note the CPU model number and the number of cores per socket on the host server to be used with the Conferencing Nodes, as this determines the maximum number of vCPUs to assign for the Conferencing Nodes.
2. Prior to deploying the Management Node or a Conferencing Node, ensure that all host servers are synchronized to NTP servers.
3. Upload the OVA file (or ZIP for Hyper-V) of the Management Node and run the setup wizard from the hypervisor console.

Pexip Infinity Administrator interface

1. Configure basic Management Node settings after installation (licenses, any additional DNS or NTP servers).
2. Add a system location.
3. Deploy Conferencing Nodes to the location (in conjunction with your hypervisor management tools).
4. Configure the SIP TLS FQDN on the Conferencing Nodes.
5. Verify your node's DNS records. (You can use the tool at http://dns.pexip.com to lookup and check SRV records for a domain.)
6. Replace the self-signed server certificates on the Management Node and Conferencing Nodes with your own certificates that have been signed by either an external CA or a trusted internal CA (see Managing TLS certificates).
7. Upload any required chain of intermediate CA certificates to the Management Node.

   You can use a tool such as https://www.sslshopper.com/ssl-checker.html to verify certificates and the chain of trust (specify port 5061 i.e. use the format **<domain>:5061** for the server hostname to ensure that SIP TLS connections are checked).
8. Configure your VMRs and aliases.
9. Configure the Infinity Gateway (via Call Routing Rules), if required.

Hypervisor maintenance

1. Enable automatic startup on every VM.
2. Backup your Management Node VM, and optionally, your Conferencing Node VMs.

Pexip Infinity configuration datasheet

Use this datasheet to help you gather the key network and configuration information required for your deployment.

Management Node (installation wizard)

Management Node IP address: .....

Network mask: .....

Gateway IP address: .....

Management Node hostname: .....

Management Node domain: .....

DNS server 1: .....

DNS server 2: .....

NTP server 1: .....

NTP server 2: .....

Management Node (configuration)

VM name: .....

System location 1 name: .....

License entitlement key: .....

Conferencing Nodes

CPU cores per socket on host server: .....
(to determine the size of each node)

Conferencing Node 1 name / VM name: .....

Conferencing Node 1 IP address: .....

Conferencing Node 1 hostname and domain: .....

Conferencing Node 2 name / VM name: .....

Conferencing Node 2 IP address: .....

Conferencing Node 2 hostname and domain: .....

For complete information on how to configure your Pexip Infinity solution, see the Pexip Infinity technical documentation website at docs.pexip.com.