Cloud Management

This document describes the Cloud Management web interface, the facility for managing everything related to the VoipNow cloud infrastructure.

Security Note

All infrastructure management operations must be performed on Infrastructure Controller node only!

Overview

The VoipNow Cloud Management Interface allows the administrator to manage the VoipNow infrastructure. It is available only to the system administrator in the web management interface.

It serves the following purposes:

- To set up the basic infrastructure properties
- To autoconfigure the system in simple deployments (with a single node)
- To manage the nodes on the infrastructure
- To manage the roles assigned on the nodes in the infrastructure
- To manage how resources are stored

Make the difference between the **Node** and the **Role**. The Node is the driver of the service (the addressable logical entity), while the role is part of the software service. When you configure the software, you configure the role. This role runs on a Node, which is an abstraction of a hardware machine.

Cloud management

The Cloud Management page section an overview of the Infrastructure. The page is split in two sections:

- Node Management
- Node Listing

Manage infrastructure

The Infrastructure Operations section provides access to the following functionality:

- Configuration Wizard - a wizard that aids single-node installation
- Add Node - the tool to use if you want to add and configure a node in the infrastructure
- Infrastructure Properties - allows to setup the infrastructure properties that simplify the setup of the role
- Storage Configuration - allows to store resources like incoming faxes, recorded calls and voicemail messages in Amazon S3

Perform node operations

The Node Listing provides information about the existing nodes in the VoipNow infrastructure, in any status they might be, and allows you to perform some management actions for these nodes.

View node information

You can access Node Quick Information from the node listing, by clicking the View Info link. When opened, it displays the following information on a layer:

Quick info

This section contains general information about the node:

Attribute	Description
NodeID	The ID of the node.
Container	The ID of the container where the node runs (if could be determined on provisioning).
Role(s) Assigned	The list of roles assigned on the node, separated by comma.

Session Key	The generated session key.
Created	When the node was created.
Updated	When the node was updated.
VoipNow Version	The version of VoipNow installed on the container that runs the node.
OS	The operating system installed on the container that runs the node.
Kernel	The kernel installed on the container that runs the node.

Components

This section contains the list of components on the node. These are basically all the components currently installed on the container that runs the node.

The following information is available:

- **Component** – This column lists all installed components.
- **Version** – The version and the build number.

Node status

A node may have one of the following statuses:

Status	Explanation
Offline	The initial status of the node when added in the VoipNow Cloud Management.
StandBy	This status is set up administratively to signal a node that exists on stand-by, but which has not been activated yet.
ActivateFailed	This status is automatically set up by VoipNow Cloud Management if the actual activation of the node fails.
Damaged	The node is known to administratively have problems.
Online	This status is automatically set up by VoipNow Cloud Management if the activation is successful, as indicated by the node.
Deleted	This status is setup when the node is administratively deleted by the Interface Controller (automatically or due to an user/API).
Deactivated	This status is setup when the node is currently deactivated in the system, without being deleted.
DeactivatePending	The node is in deactivation process, but it has not signed the completion of the process.

Fix node

This is useful for restoring the Online status of a Damaged node. A node can get in the Damaged state when an infrastructure change took place. This usually implies that the admin makes changes to some role's parameters.

After the administrator makes sure that the role is properly set up, he/she must use the [Fix Node] option to make the node Online and restore its functionality.

Delete node

The node can be totally deleted from the infrastructure by using the [Delete Node] option. This is not available when the node's status is Online or Damaged.

Delete role assignment

If the node's status is Offline, ActivateFailed or Deactivated, then you can use the [Delete Assignment] option to delete the assigned role. This is useful if you want to change the role with a different one. More information on roles can be found in the Set Up Role Parameters section.

Administrative removal of a role

To help with the first setup of the infrastructure, you can use the [Remove] option to unconditionally remove roles from the Infrastructure Controller node.

Leaving roles on the Infrastructure Controller node would consume a lot of the node's resources. While delegating the system's roles to other nodes, you can remove the ones that are no longer needed on the Infrastructure Controller node.

The Administrative Remove option is only available when less that three extensions are provisioned on the system and the role is on the same node as the Interface Controller. The status of the node is not important.

The [Remove] option is present next to the following roles:

- SIP
- PBX
- Jabber
- Queue
- Management Interface

When you click the [Remove] link, a warning is issued and, after your approval, the role is removed.