Configuration Profiles

Profiles provide a composite of the configurations created in Networks and Network Services. It also adds configuration for Business Policy and Firewall rules. Profiles have four tab pages: **Profile Overview**, **Device**, **Business Policy**, and **Firewall**.

Create a New Profile

After a new installation, the VeloCloud Orchestrator has the following predefined Profiles: Internet Profile, VPN Profile, and as the 3.0 release Segment Based profiles.

IMPORTANT NOTE: With the Segmentation feature introduced in the 3.0 release, edges running the software prior to 3.0 could have a Network Based Configuration or a Segmentation Based Configuration. ***Because of this transition, you must migrate/convert the Network based profile to the Segment based profile.**

The following steps are typically followed when creating a new Profile:

- Create a new Profile
- Configure Device
 - Select Network
 - o Assign Authentication/DNS
 - o Configure Interface Settings
- Enable Cloud VPN
- Configure Business Policy
- Configure Firewall
- Review Profile Overview

To Create a New Profile:

1. Go to Configure ->Profiles, click the New Profile button (see image below).

Configuration Profiles		Migrate Profile Ne	w Profile Actions 🔻	1
			New Profile	Ē
Name	Network	Used By	Duplicate Profile Migrate Profile Modify Profile	
Quick Start Profile ent_1511207876851_30944_10	Segment Based Profile	12 Edges	Delete Profile	C
netalloc2 ent_1511207876851_30944_10	Network Based Profile	12 Edges	2 🛛	G
ent_1511207876851_30944_10				

- 2. In the **New Profile** dialog, enter a Profile Name and Description in the appropriate textboxes.
- 3. Click the **Create** button.

The **Profile Overview** tab page updates. See image and section below (**Profile Overview** Page) for more information.

				admingreitatimeteom
Monitor Configure	Configuration Profiles - VeloAcme VPN Profi	le		Save Changes
Edges Profiles	Profile Overview Z Devis	e Business Policy	Firewall	
 Networks Network Services Alerts & Notifications 	* Name: VeloA	me VPN Profile	1	
est & Troubleshoot	Cost protection.			
est & Troubleshoot leports Idministration	Profile Overview			
Fest & Troubleshoot Reports Administration	Profile Overview Networks		Services	
rest & Troubleshoot Reports Administration Used by	Profile Overview Networks	Internet Network	Services	On
rest & Troubleshoot Reports January Stration Jaed by Edge	Profile Overview Networks Name Addressing Type	Internet Network Overlapping Addresses	Services Dynamic Multi-path Optimization Businets Policy	On 21 rules
Fest & Troubleshoot Reports Administration Jsed by Edge	Profile Overview Networks Name Addressing Type Corporate Addresses & VLAN	Internet Network Overlapping Addresses s	Services Dynamic Multi-path Optimization Business Policy Firewall	On 21 rules 1 outbound rule
Fest & Troubleshoot Reports Administration Jsed by Edge	Profile Overview Networks Name Addressing Type Corporate Addresses & VLAN Network	Internet Network Overlapping Addresses 5 10.0.2.0/21	Services Dynamic Multi-path Optimization Business Policy Filtewall Cloud VPN	On 21 rules 1 outbound rule Off
Test & Troubleshoot Reports Administration Jsed by I Edge	Profile Overview Networks Name Addressing Type Corporate Addresses & VLAN Network Addresses VLANS	Internet Network Overlapping Addresses 5 10.0.2.0/21 1	Services Dynamic Multi-peth Optimization Business Policy Finewall Cloud VPN Application Recognition	On 21 rules 1 outbound rule Off On
Fest & Troubleshoot Reports Administration Jsed by I Edge	Profile Overview Networks Name Addressing Type Corporate Addresses & VLAN Network Assignable VLANS Guest Addresse & VLANs	Internet Network Overlapping Addresses s 10.0.2.0/21 1	Services Dynamic Multi-path Optimization Business Policy Firewall Cloud VPN Application Recognition Identity	On 21 rules 1 autosund rule Off On On
Test & Troubleshoot Reports Administration Used by 1 Edge	Profile Overview Networks Name Addressing Type Corporate Addresses & VLAN Network Assignable VLANS Guest Addresses & VLANS Network	Internet Network Overlapping Addresses 10.0.2.0/21 1 192.168.2.0/22	Services Dynamic Multi-path Optimization Business Policy Filtenall Cloud VPN Application Recognition Identity Wireless	On 21 rules 1 autosund rule Cifi On On
Test & Troubleshoot Reports Administration Used by 1 Edge	Profile Overview Profile Overview Networks Name Addressing Type Corporate Addresses & VLAN Network Assignable VLANS Guest Addresses & VLANs Network Assignable VLANS	Internet Network Overlapping Addresses 10.0.2.0/21 1 192.168.2.0/22 1	Services Dynamic Multi-path Optimization Business Policy Fitewall Cloud VPN Application Recognition Identity Wireless 802.1 x	On 21 rules 1 outbound rule Off On On On Off

Profile Overview Page

A **Profile Overview** page is a display that provides a quick summary of all Networks and Services that are defined in the profile. The overview is divided into two categories (see the following screen capture):

- **Networks** has the name of the Network configuration used, the type of addressing, and the Network addresses and VLANs assigned to the Corporate and Guest networks.
- Services has a summary of the services provided by the VeloCloud system.

After all settings have been entered for the Profile Device, Business Policy, and Firewall pages, the **Profile Overview** page should reflect the configurations you have performed.

Network to Segment Migration

In 3.2, the Profile Migration feature is introduced to help simplify the workflow to upgrade Edges from Network Based Profiles to Segment Based Profiles. This document provides the workflow and details on

how to upgrade a 2.x Edge with a Network Based Profile to 3.x with a Segment Based Profile as following:

- <u>Step 1: Network-based Profile to Segment-based Profile Cloning and Conversion</u>
- Step 2: Assign Segment-based Profile to a Network-based Edge
- <u>Step 3: Create a New Segment-based Operator Profile with 3.X Edge Software Image</u>
- <u>Step 4: Operator Profile Assignment</u>

See the sections below for detailed instructions for the above steps.

IMPORTANT NOTE: Since 3.x Edges only understand Segment Based Profiles, the 3.2 image update will get pushed out to the Edge only if the Edge has a Segmented Profile assigned. Once a Segment Based Profile is assigned to an Edge, it cannot be reassigned to a Network Based Profile. The transition from a Network Based Profile to a Segment Based Profile is supported, but a Segment Based Profile to a Network Based Profile is not supported.

Step 1 Network-based Profile to Segment-based Profile Cloning and Conversion

- 1. From the VeloCloud Orchestrator, go to **Configure > Profiles**.
- 2. Select a Network Based Profile by clicking the checkbox next to the name of the configuration profile.
- 3. From the Actions drop down menu, choose Migrate Profile.

Configuration Profiles	Migrate Profile	New Profile	Actions •	2
		New Profile		Г
		Duplicate Profile		wall
Name	Network	Modify F	Profile	Fire
Quick Start Internet	Internet Network	Delete P	rofile	
Quick Start VPN	VPN Network		2	
Quick Start VPN 1	Internet Network	1 Edge	2	

- 4. In the **Migrate Profile** dialog, type in a name and description for the profile.
- 5. Click the **Create** button.

Migrate Profile	e
Original profile will be created as a re-	I not change and a new segment based profile will sult of this operation.
From Profile: * Name:	Quick Start VPN 1 Quick Start VPN 1_Segmented
Description:	Quick Start VPN 1_Segmented was migrated from Quick Start VPN 1 on 2:21 20/02/2018
	Quick Start VPN 1 on 2:21 20/02/2018 Create

A new Segment Based Profile is created with the same settings in the Global Segment as the old Network Based Profile. See image below. Please note that no Edges are assigned to this Profile.

Со	nfiguration Profiles	Migrate Profile	New Profile	Action	s 🔻	1 ?
				Ce	. Policy	Mall
	Name	Network	Used By	Devi	Bus	Fire
	Quick Start Internet	Internet Network		1	ବ୍ଲ	
	Quick Start VPN	VPN Network		1	ବ୍ଲ	٢
	Quick Start VPN 1	Internet Network		1	ବ୍ଲ	6
	Quick Start VPN 1_Segmented Quick Start VPN 1_Segmented was migrated from Quick Start VPN 1 on 2:21 20/02/2018	Segment Based Profile	1 Edge	Z	2	

Step 2 Assign a Segment-based Profile to a Networkbased Edge (See IMPORTANT NOTE Below)

IMPORTANT NOTE! Once a Segment-based Profile is assigned to an Edge, it cannot be reassigned to a Network-based Profile. Transition from a Network-based Profile to a Segment-based Profile is supported, but a Segment-based Profile to Network-based Profile is not supported.

To Assign a Segment-based Profile to a Network-based Edge:

1. Go to **Configure > Edges** in the VCO.

2. In the VeloCloud Edges screen, select the Edge you want to assign a Segment Profile to.

3. In the Edge Overview tab screen, go to the Profile area.

Profile			
Profile:	Network Profile_Segmented	Edge Specific Overrides & Additions	
		Interface	No
		High Availability	No
		Static Routes	No
		ICMP Probes	No
		ICMP Responders	No
		DNS	No
		Authentication Service	No
		SNMP	No
		Netflow	No
		Business Policy	No
		Firewall	No

4. From the Profile drop down menu, choose a Segment Based Profile (see image below).

Step 3 Create a New Segment-based Operator Profile with a 3.X Edge Software Image

1. From the VCO, choose **Operator Profile**. See image below.



- 2. From the **Operator Profile** screen, click the **New Profile** button.
- 3. In the New Operator Profile dialog (image below):
 - i. Type in a Name and Description for the profile.
 - ii. In the Configuration Type drop down menu, choose Segment Based.

iii. Click the Create button.

New Operator	(<u>?</u>) ×	
 Name: Description: 	Segmented Operator Profile 3.2	
		1
* Configuration Typ	De: Segment Based ▼	
	Create	Cancel

- 4. In the newly created **Operator Profile** screen, go to the **Software Version** area.
- 5. In the **Software Version** area, choose a software version from the **Version** drop down menu. (See image below).

Software Version:			
Version:	3.2.0 (build R32-20180315-MN)	r -	
	Device Families: Edge 5X0		
Update Duration: ()	5 minutes		

6. Click the **Save Changes** button at the top of the VCO screen.

Step 4 Operator Profile Assignment

The Edge with the segmented profile will receive a software image update via the Operator Profile. This can be accomplished either by switching the Operator Profile for the customer or assigning a new Operator Profile to selected Edges. The instructions below describe steps for assigning a new Operator Profile to a selected Edge.

To Assign a new Operator Profile:

- 1. From the VCO, go to **Configure > Edges**.
- 2. In the VeloCloud Edges screen, select the Edge(s) you want to assign.

3. In the **Operator Profile** drop down menu, choose the Segment Based Operator Profile that was created in <u>Step 3</u>. (See image below).

Assign Operator Profile	×
Operator Profile: Segmented Operator Profile 3.2	
If no Edge operator configuration is set, the Edge will receive the operator configuration assigned to the Customer.	
Update Cancel	

4. Click the **Update** button.

After this operation, Edge(s) will receive the 3.2 software image update, and after the image update process is complete, Edge(s) will start communicating with the VCO.