The bridge to possible

How to Achieve Operational Consistency with Hybrid Cloud Networks

Customer success story

Eric Nilsson, Senior Network Engineer, Skanska
Mayuri Kulkarni, Director, Product Management, Cisco

CSSCLD-1582

Agenda

- Introduction
- About Skanska
- Business challenges
- Cisco solutions deployed
- Use cases for hybrid cloud networks
- Configuration Workflow
- Business outcomes
- What next
- Q&A

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Introduction

Introduction

Eric Nilsson, Senior Network Engineer, Skanska

Technology Expertise

- Data center network responsibility
- Cisco ACI focus
- Cloud networking
- VPN

Certifications

- CCNP enterprise certification
- Cisco certified ACI implementation certification
- Cisco specialist enterprise design certification

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

About Skanska

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

About Skanska

One of the world's largest development and construction companies

30,000+ employees, 2021 revenue totaling SEK 148 billion (13.1B EUR)

Operates across select markets in the Nordics, Europe and US

Hospitals, residence, subway stations, airports

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

LaGuardia Airport

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Skanska and IT

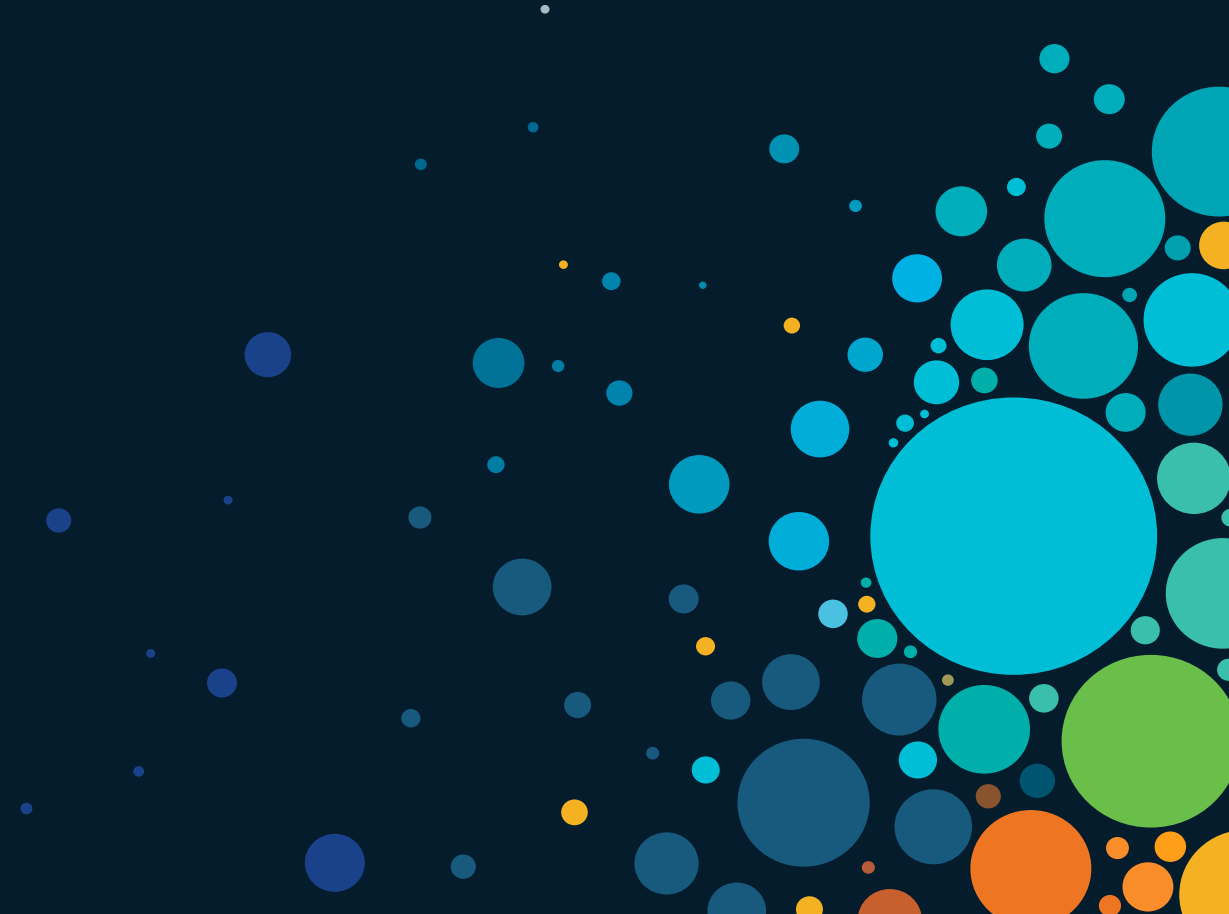
Just a construction company?

Blueprints and other applications needed to construct something

Always available

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Business challenges



Skanska

Key challenges

Align data center and cloud environments

Improve network segmentation and security

Accelerate IT operations

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Align data center and cloud environments

Reduce number of management tools

Standardize network configuration

Consistent Application deployments On Premises and Cloud

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Improve network segmentation and security

Segment On Premises Data Center and Cloud network using the same policy model

Ability to secure traffic within a stretched tenant using micro segmentation

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Accelerate IT operations

Reduce learning curve for Cloud

Manage both On Premises and Cloud via the same toolset

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Cisco solutions deployed

Cisco solutions deployed

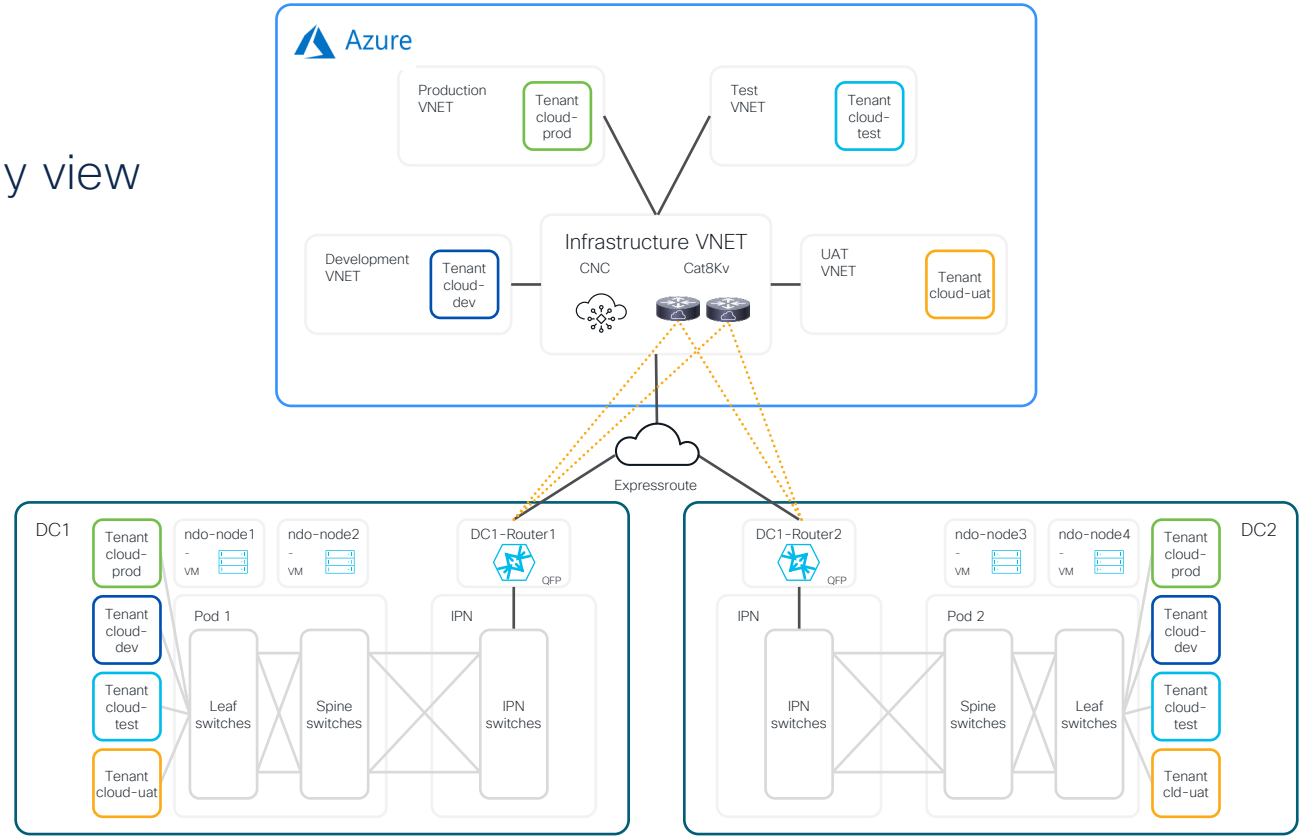
- On premises ACI
- Cisco Cloud Network Controller
- Cat8000v
- Cisco Nexus Dashboard Orchestrator
- Cisco ASR1000

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Topology View

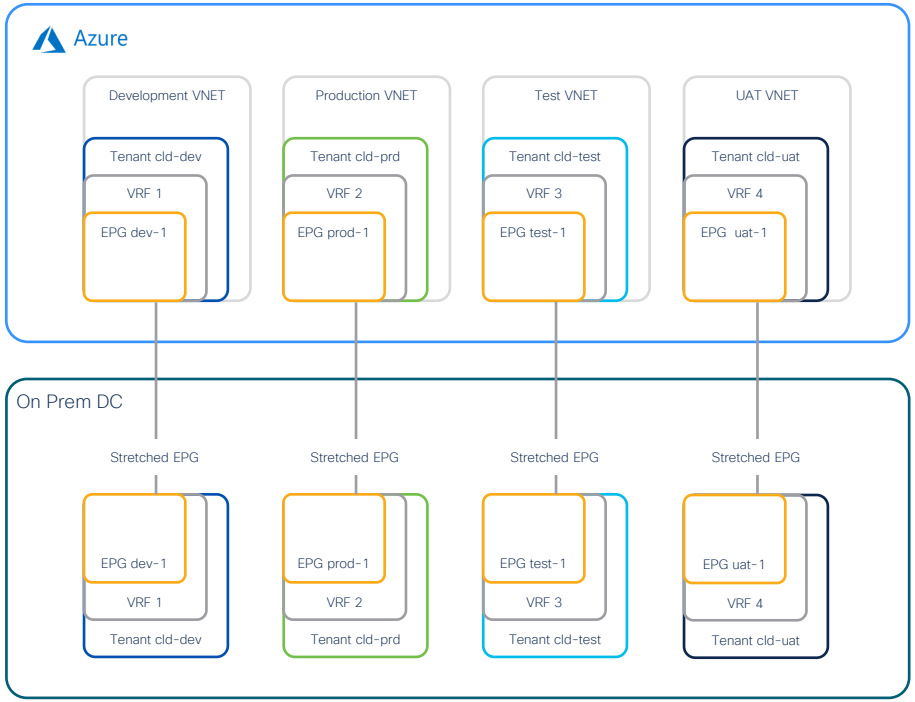
Skanska

Hybrid cloud topology view



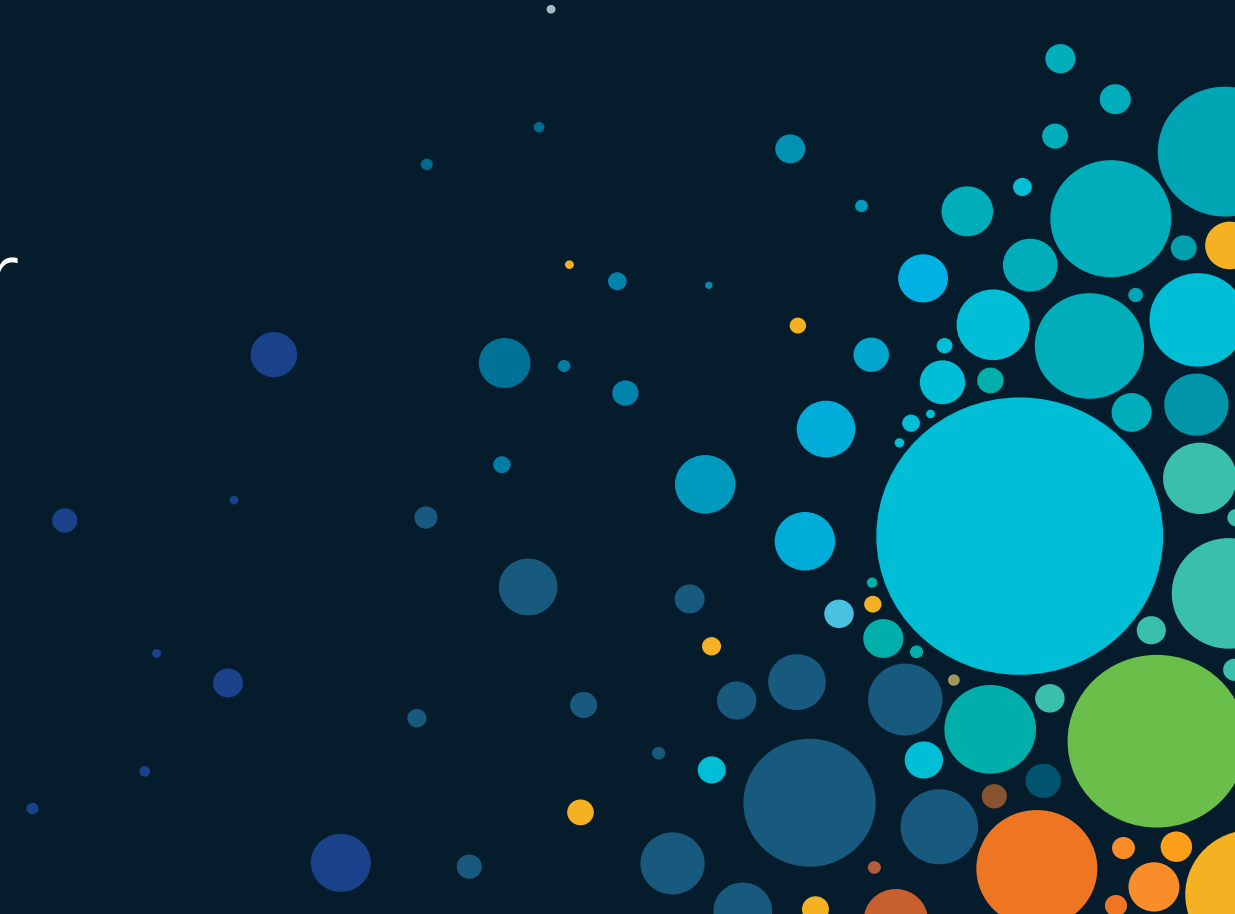
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Logical topology

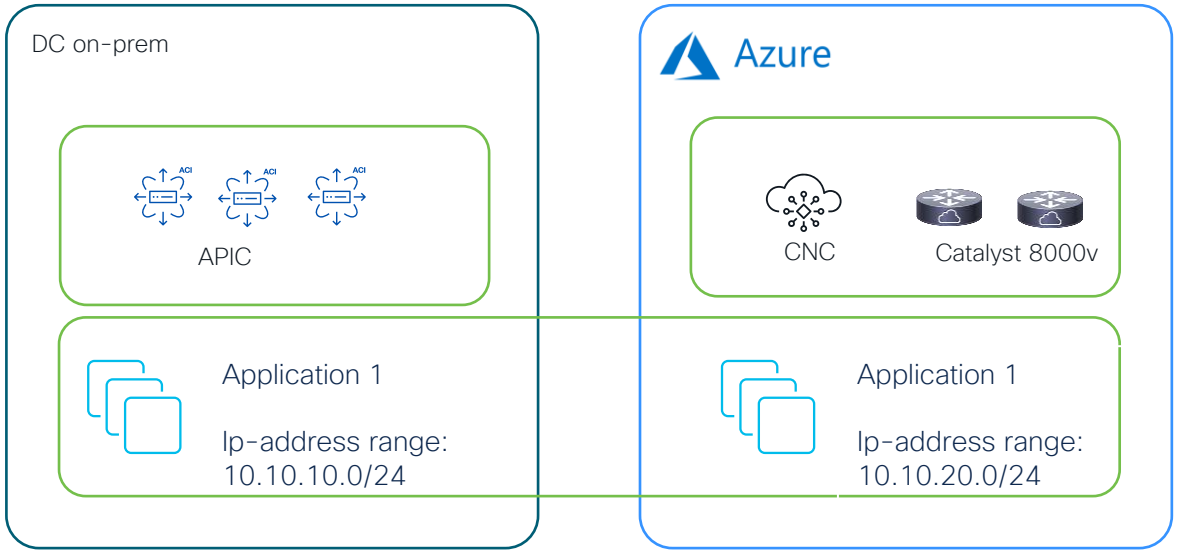


© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Use cases for hybrid cloud networks

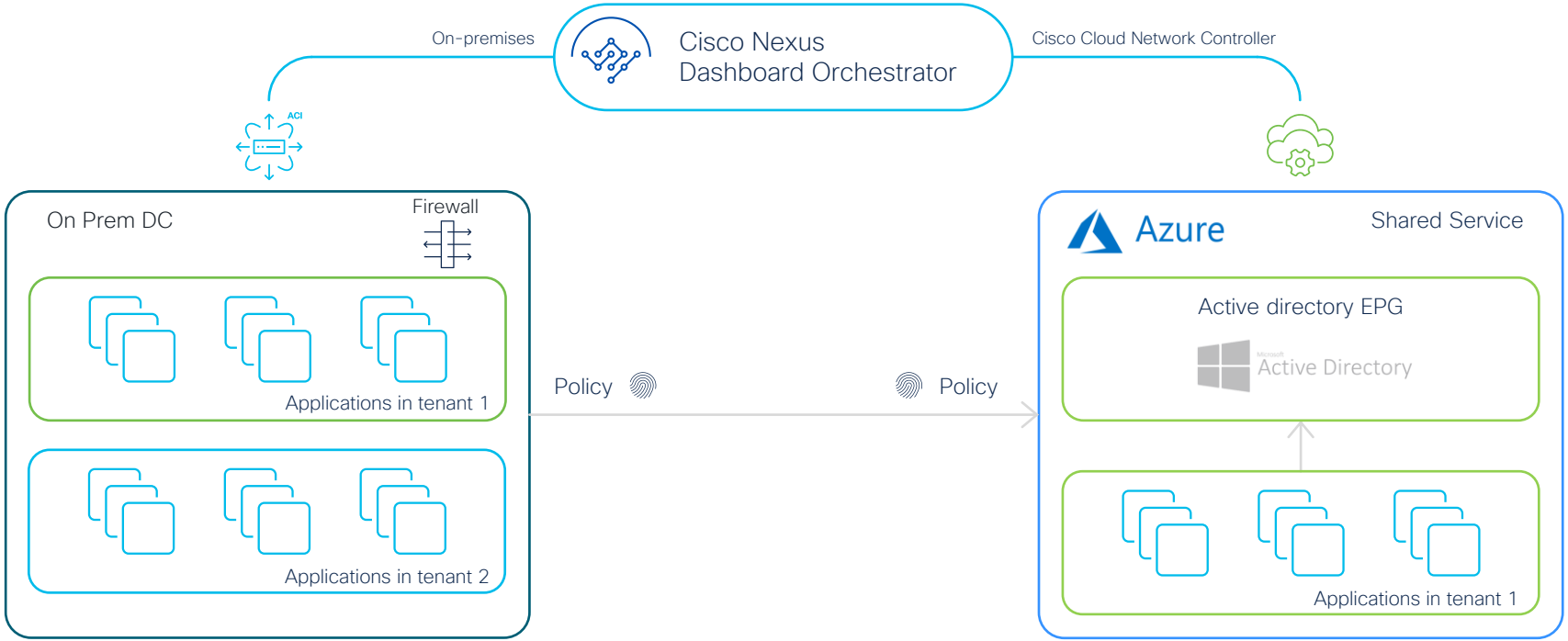


Use case 1: Maintaining stretched application across hybrid cloud



© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

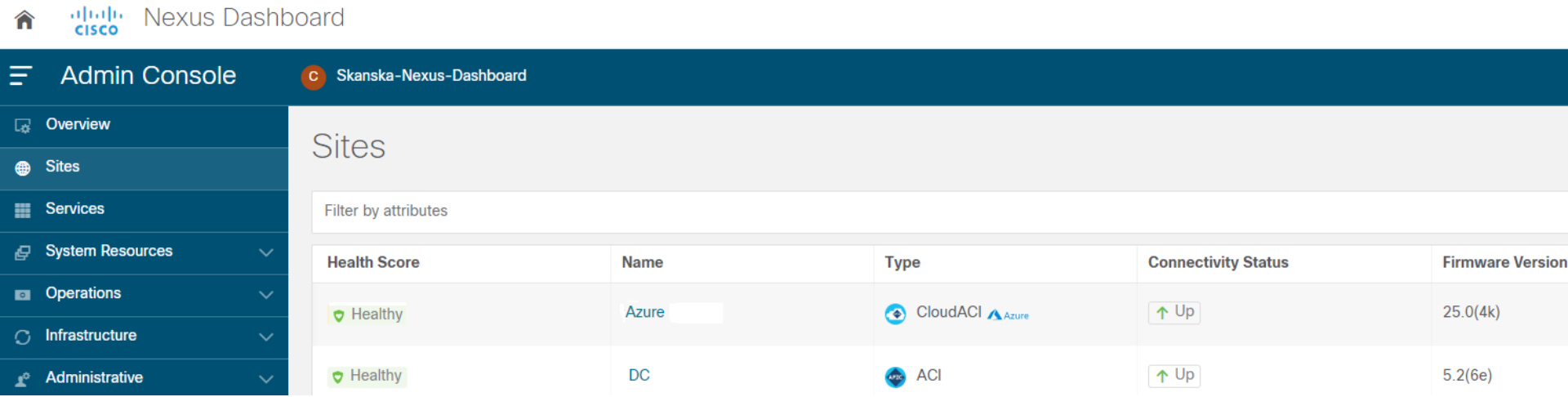
Use case 2: Segmentation



© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

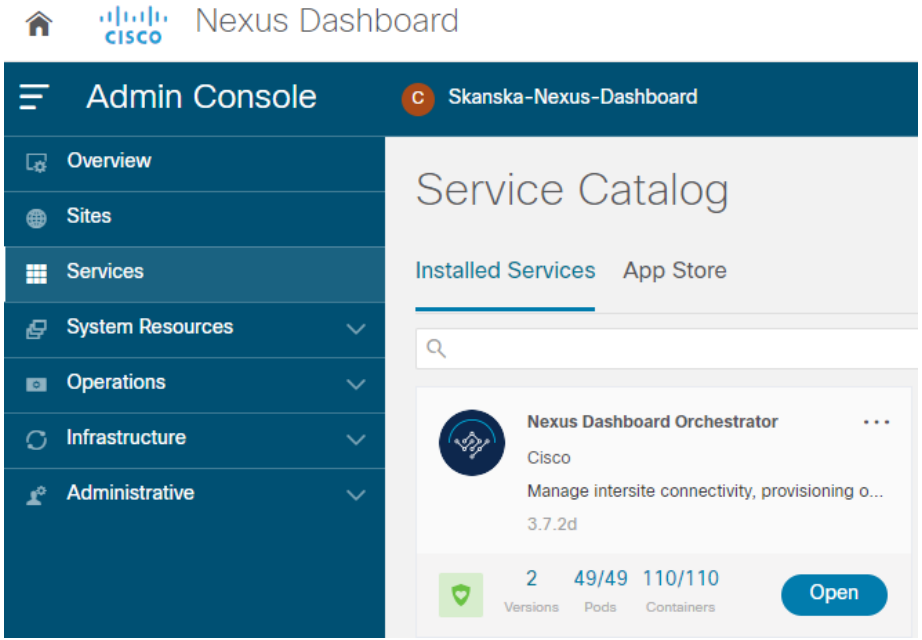
Configuration Workflow

Nexus Dashboard Sites



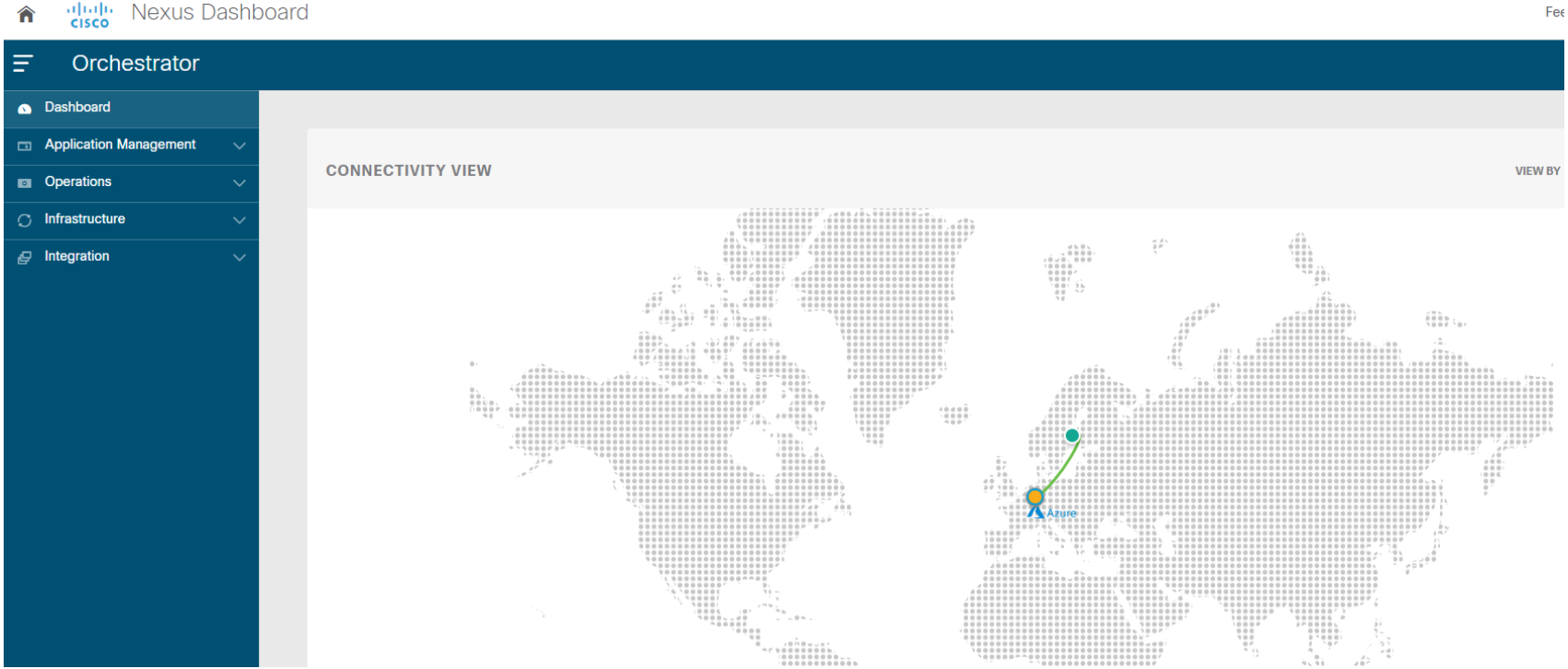
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Nexus Dashboard Services



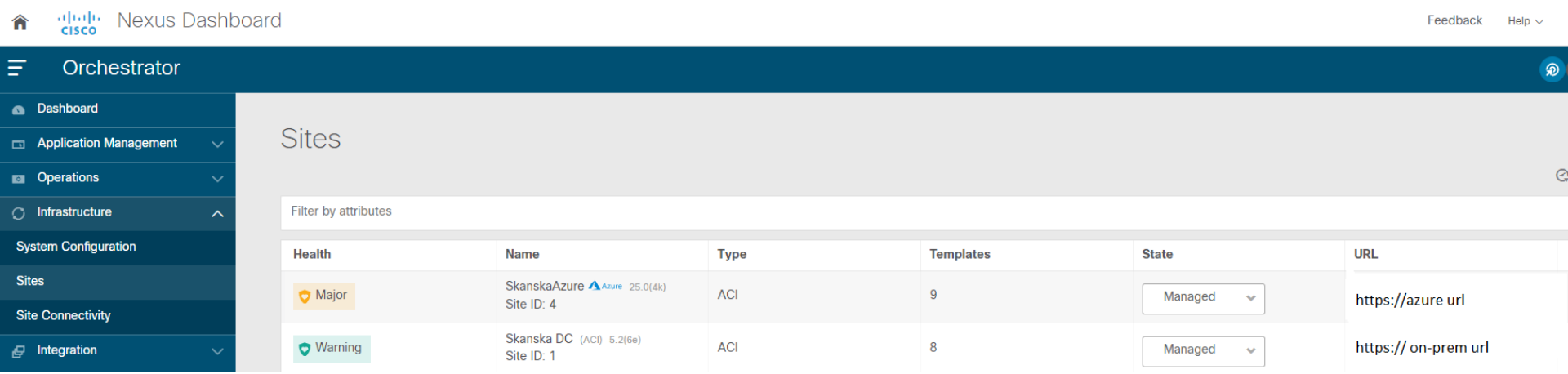
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Nexus Dashboard Orchestrator



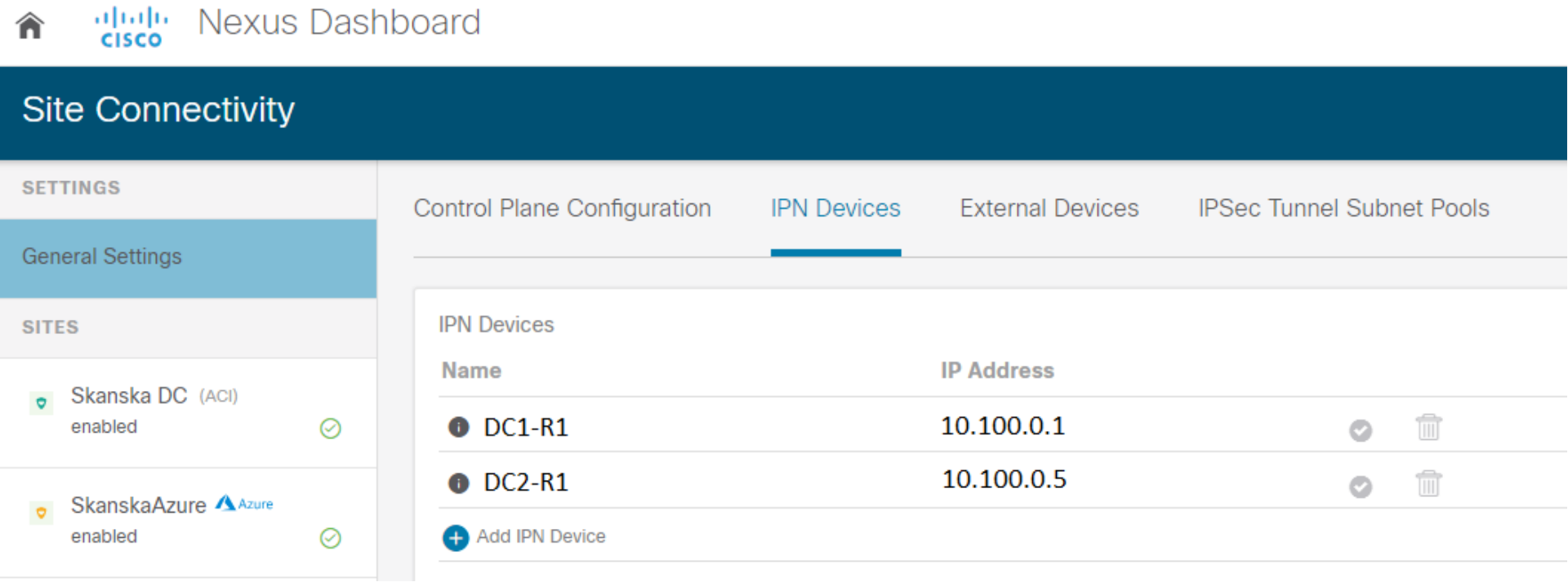
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Nexus Dashboard Orchestrator Sites



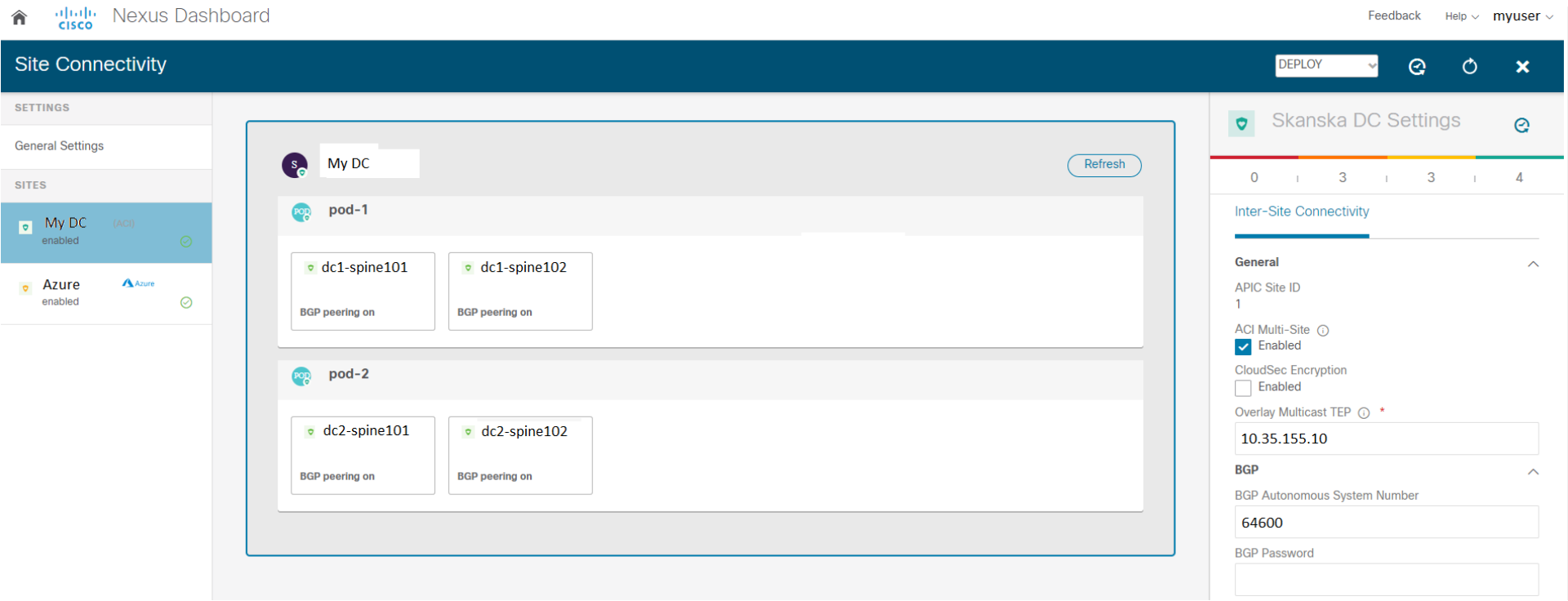
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Nexus Dashboard Orchestrator : Intersite connectivity



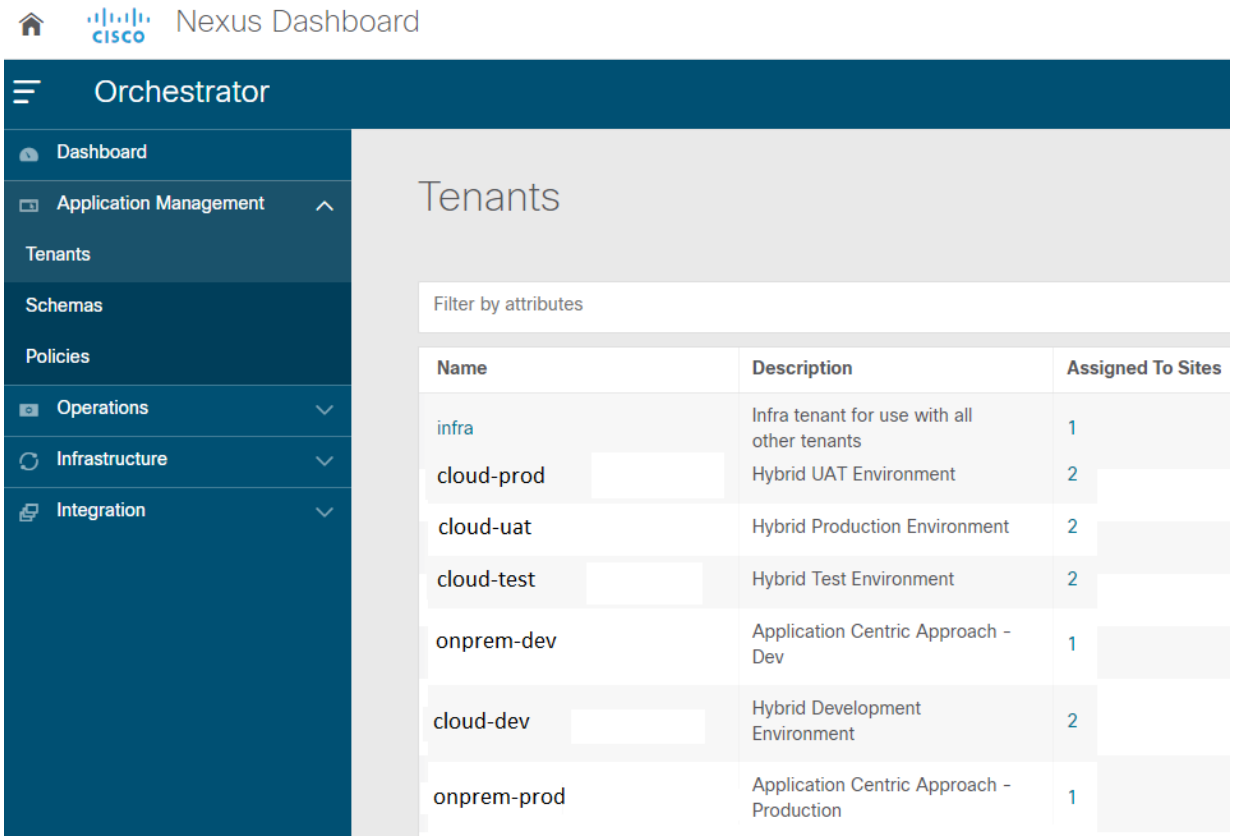
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Nexus Dashboard Orchestrator : On Prem to Cloud



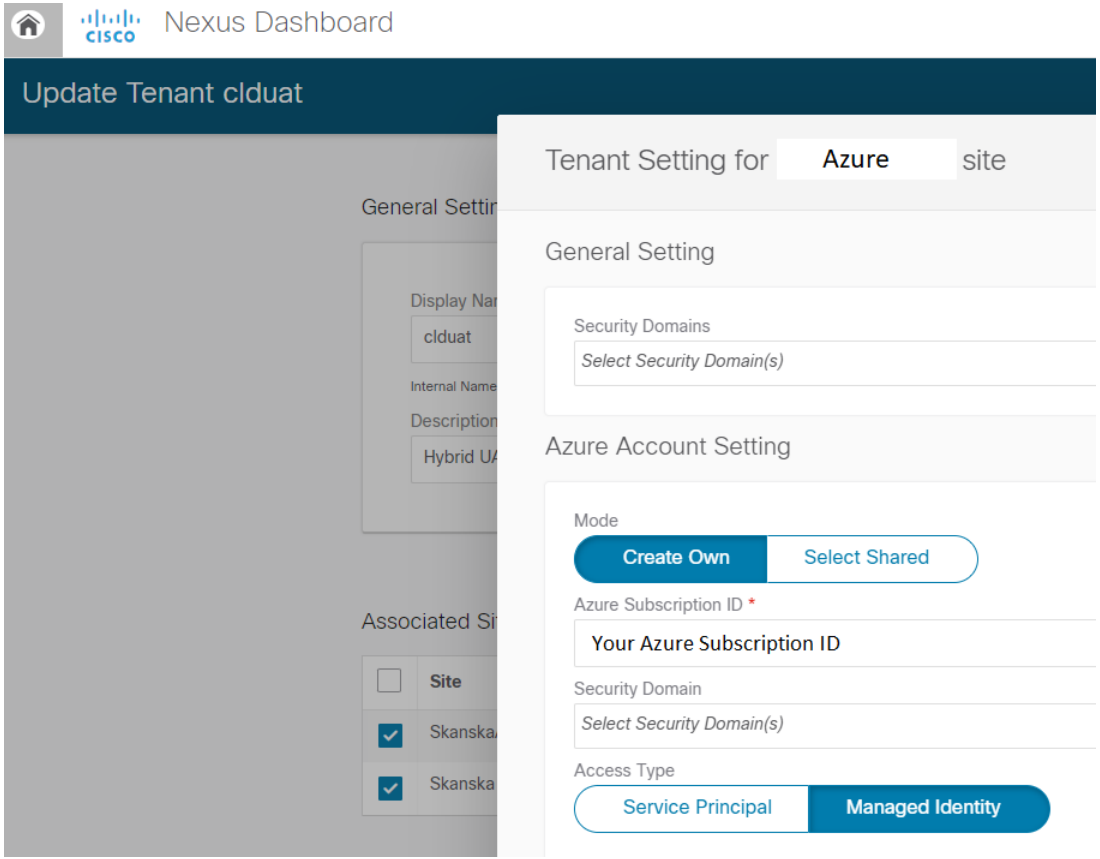
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Nexus Dashboard Orchestrator : Tenant View



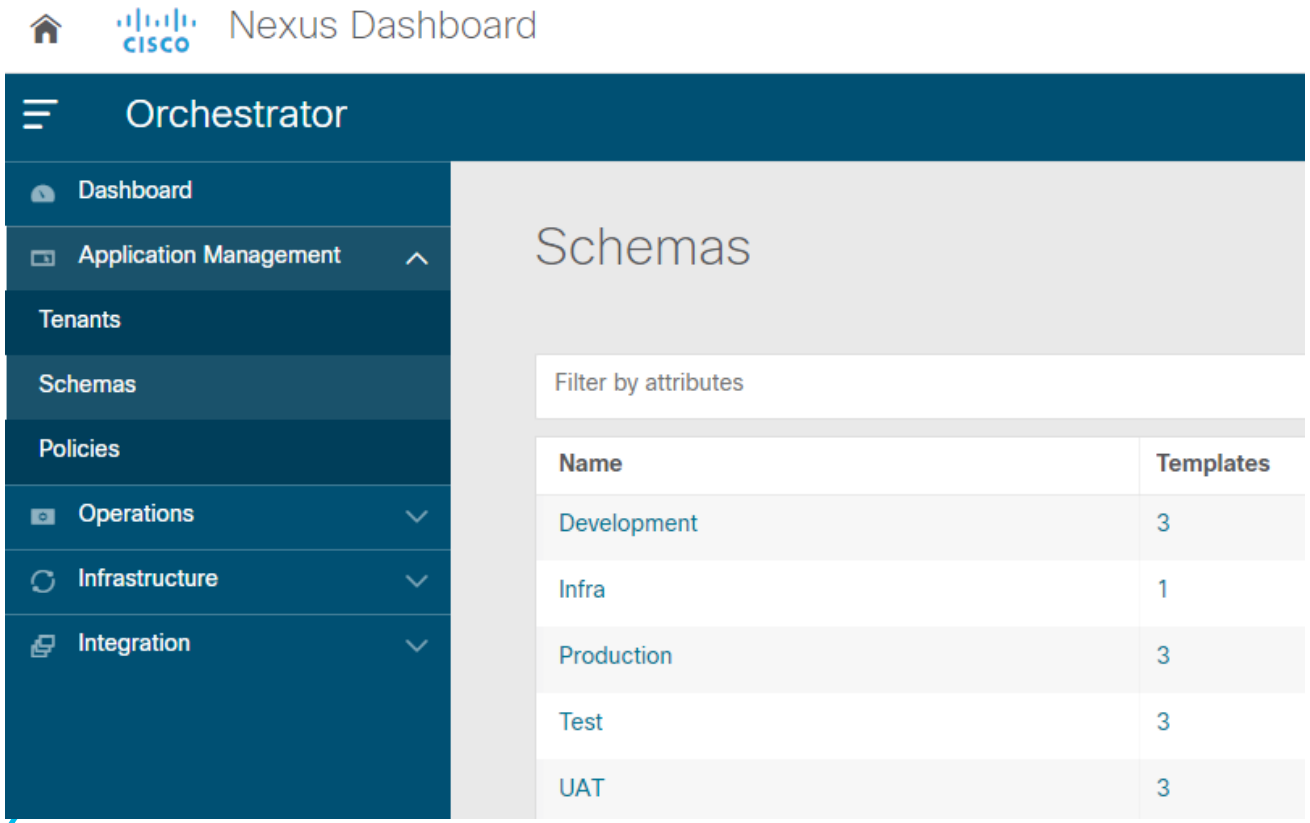
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Nexus Dashboard Orchestrator : Tenant mapping



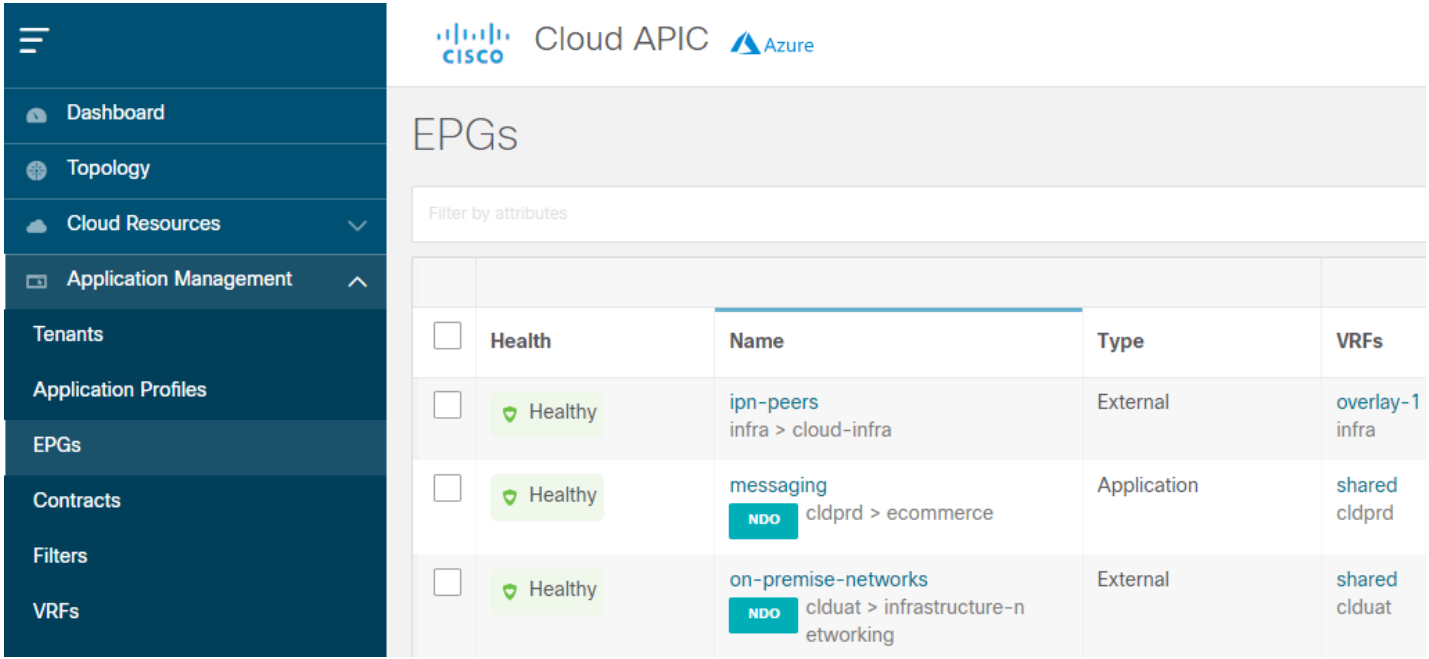
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Nexus Dashboard Orchestrator : Schema



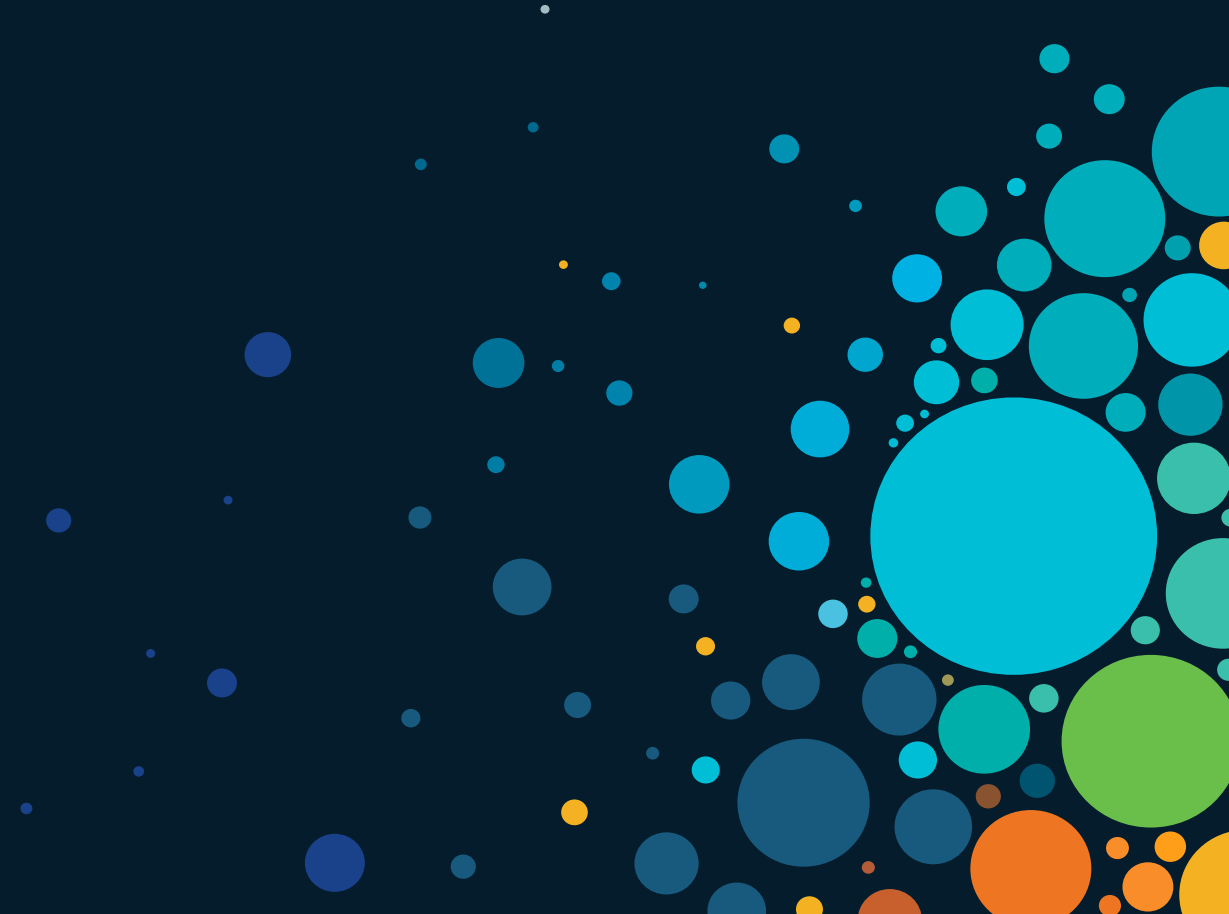
© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Policy Groups in Cloud Network Controller



© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

Business outcomes



Business outcomes

Agile response to requirements from application teams

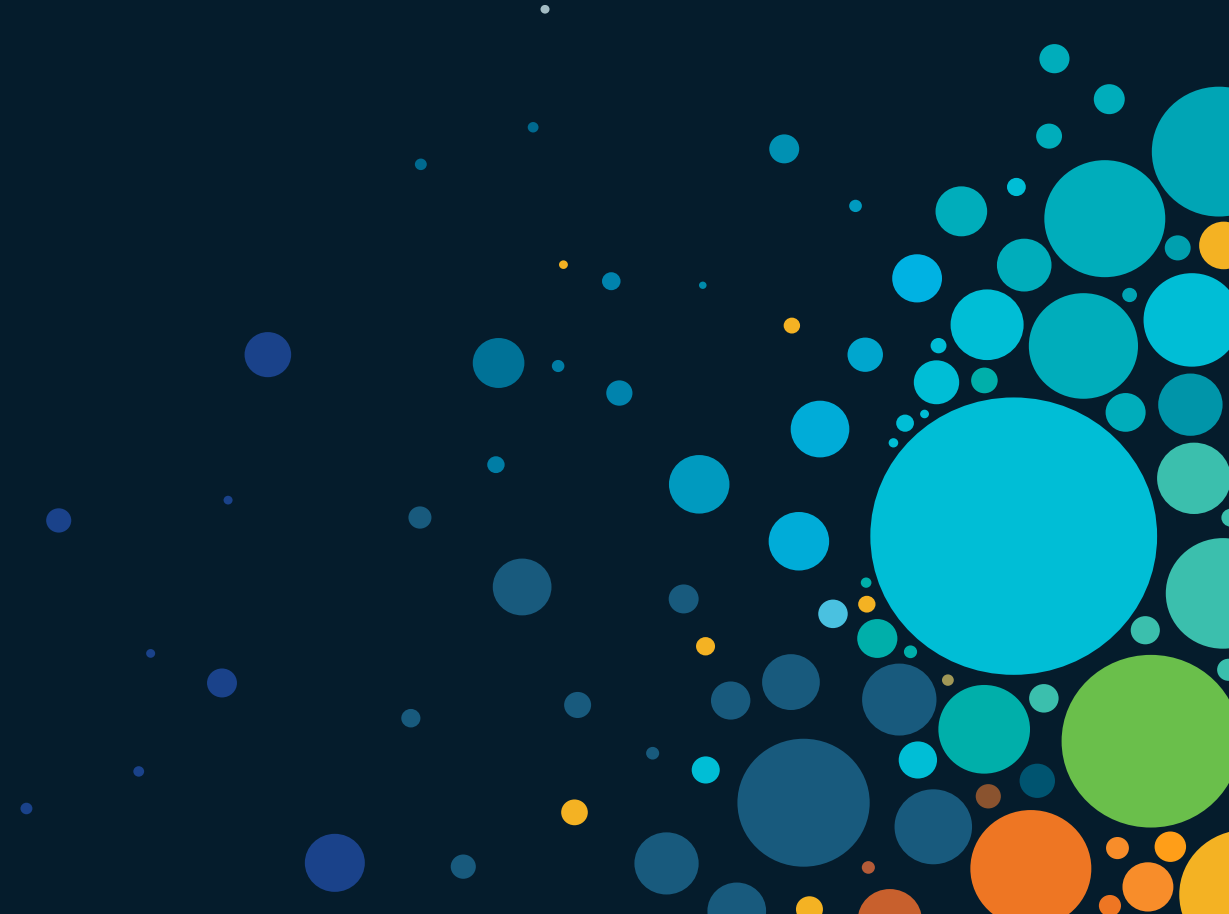
Shortened learning curve for cloud

Increase productivity, gain efficiency and save time

Easier management due to same toolset being used on-prem and cloud

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

What next



What next

Migrate workloads from brownfield networks into new design (within cloud)

Implement firewalls in the cloud

Configure Internet traffic to directly exit cloud

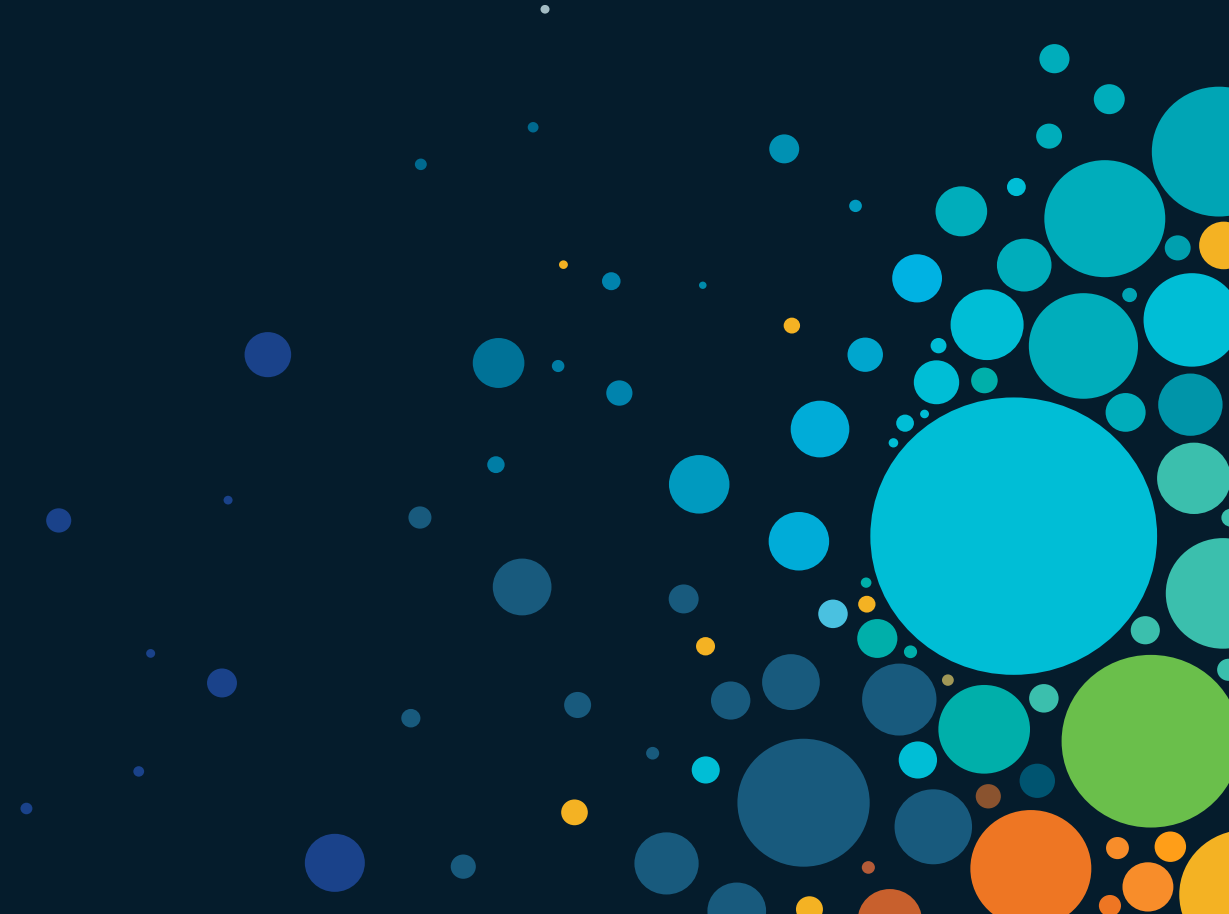
Service redirect to L4-7 devices for Internet traffic coming into cloud

© 2023 Cisco and/or its affiliates. All rights reserved. Cisco Public

The bridge to possible

Thank you

Q&A



Are you playing the Cisco Live Game?

Scan the QR code and earn your **Customer Success Stories Theater** points here

cisco Live!
ALL IN