

# Securing Service Bus Entities

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ACTIVE SOLUTION

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# Overview



**Security Requirements**

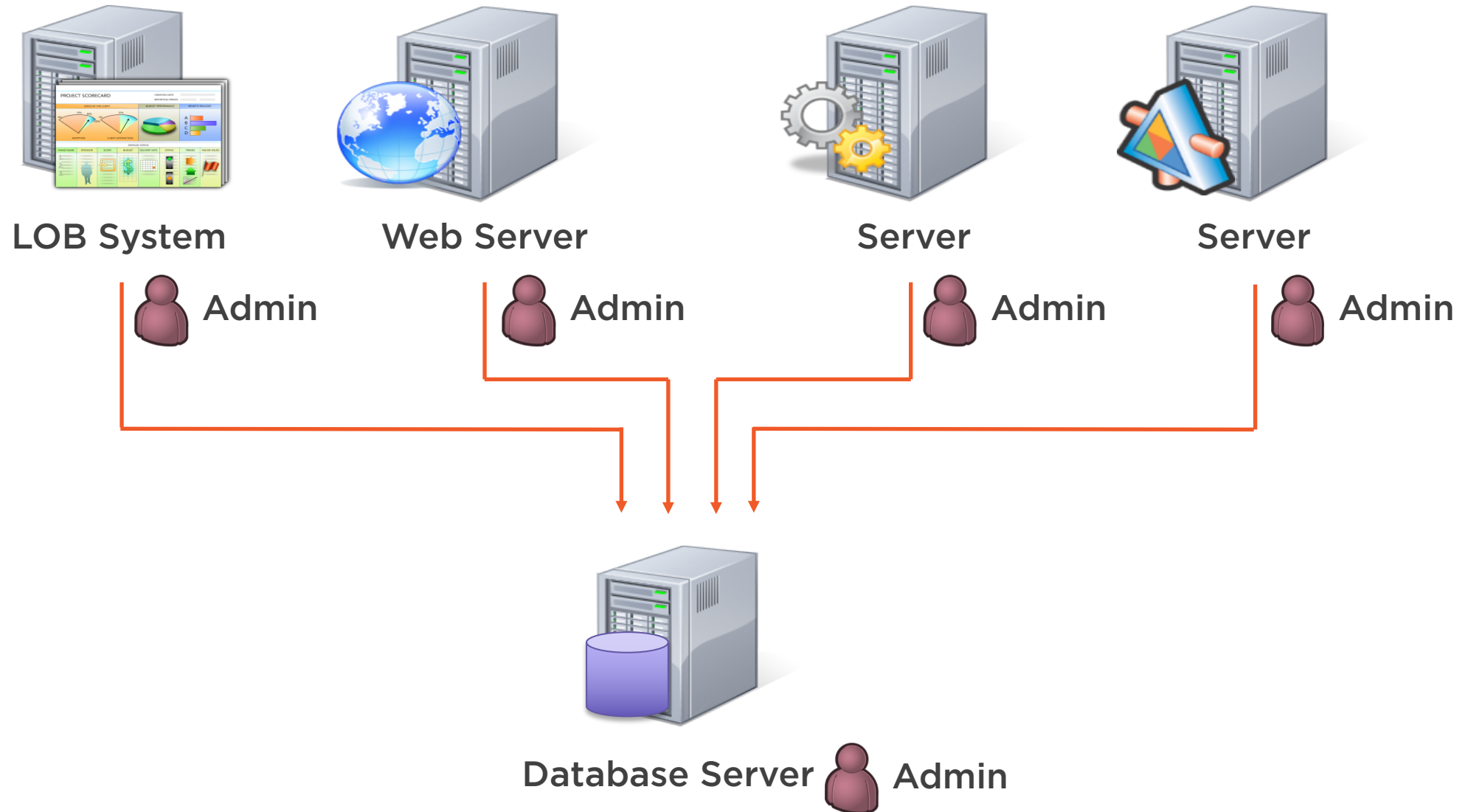
**Working with Shared Access Signatures**

**Demo: Securing Service Bus Artifacts  
using Shared Access Signatures**

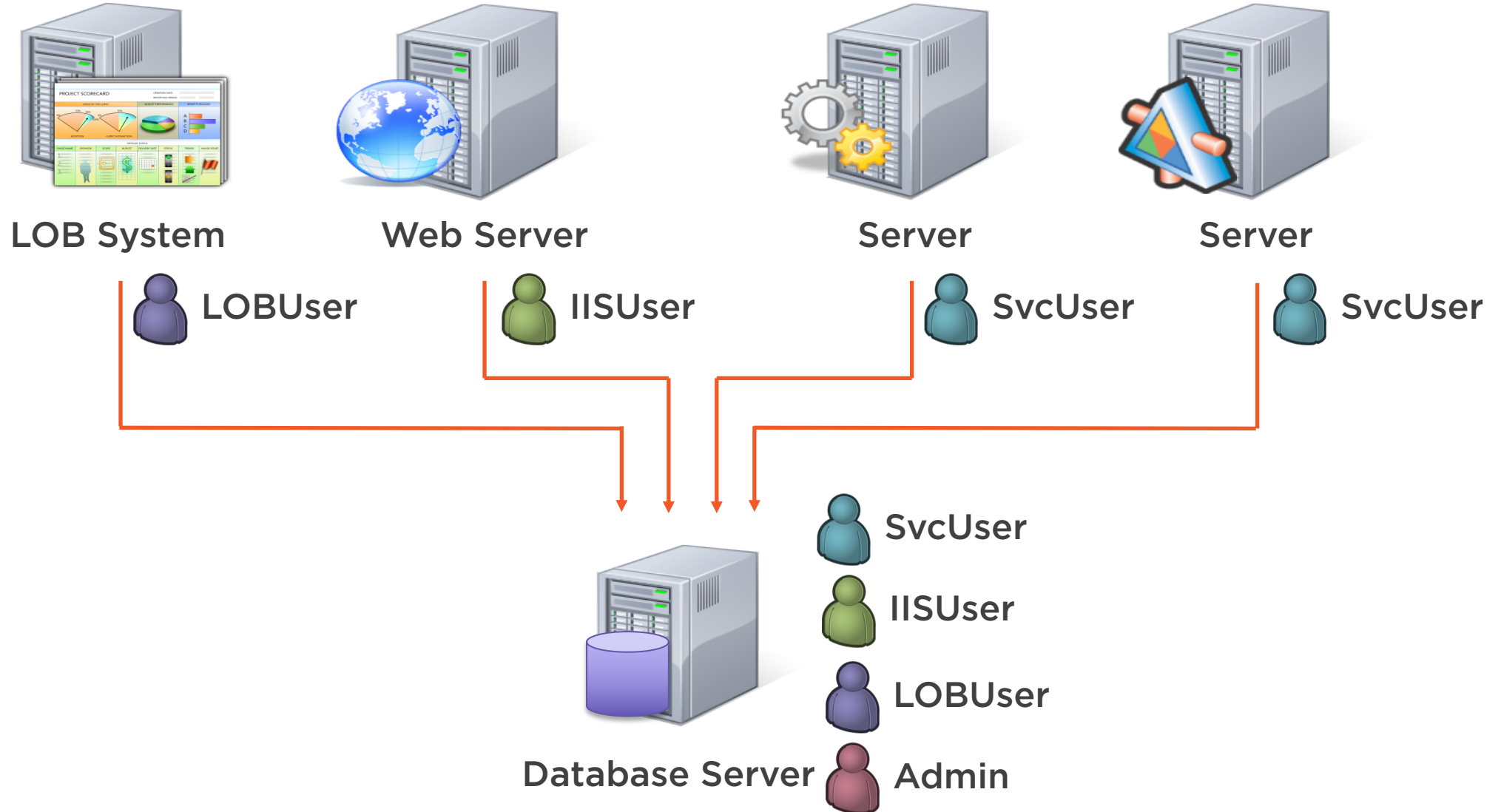
# Security Requirements

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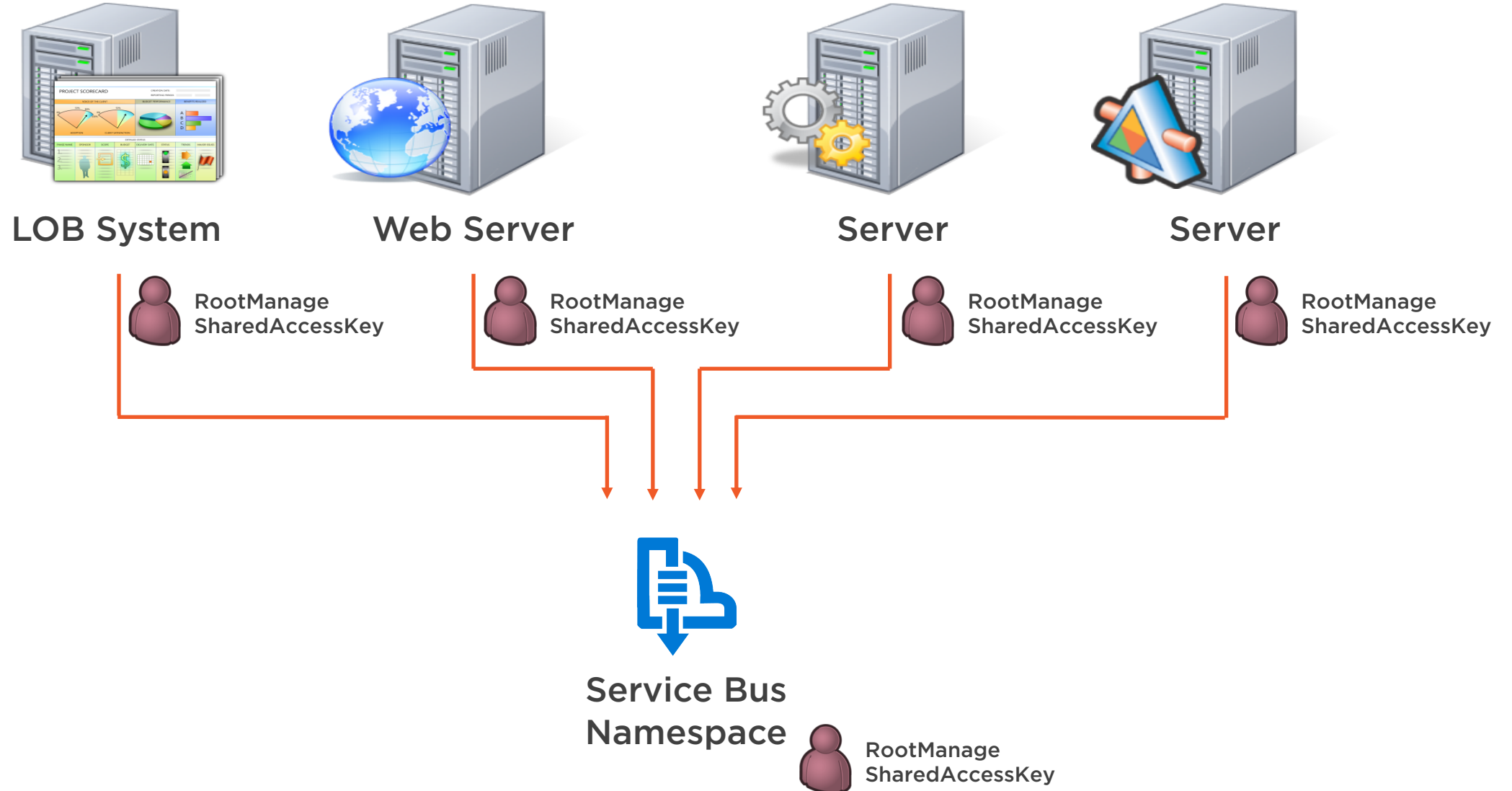
# Database Security



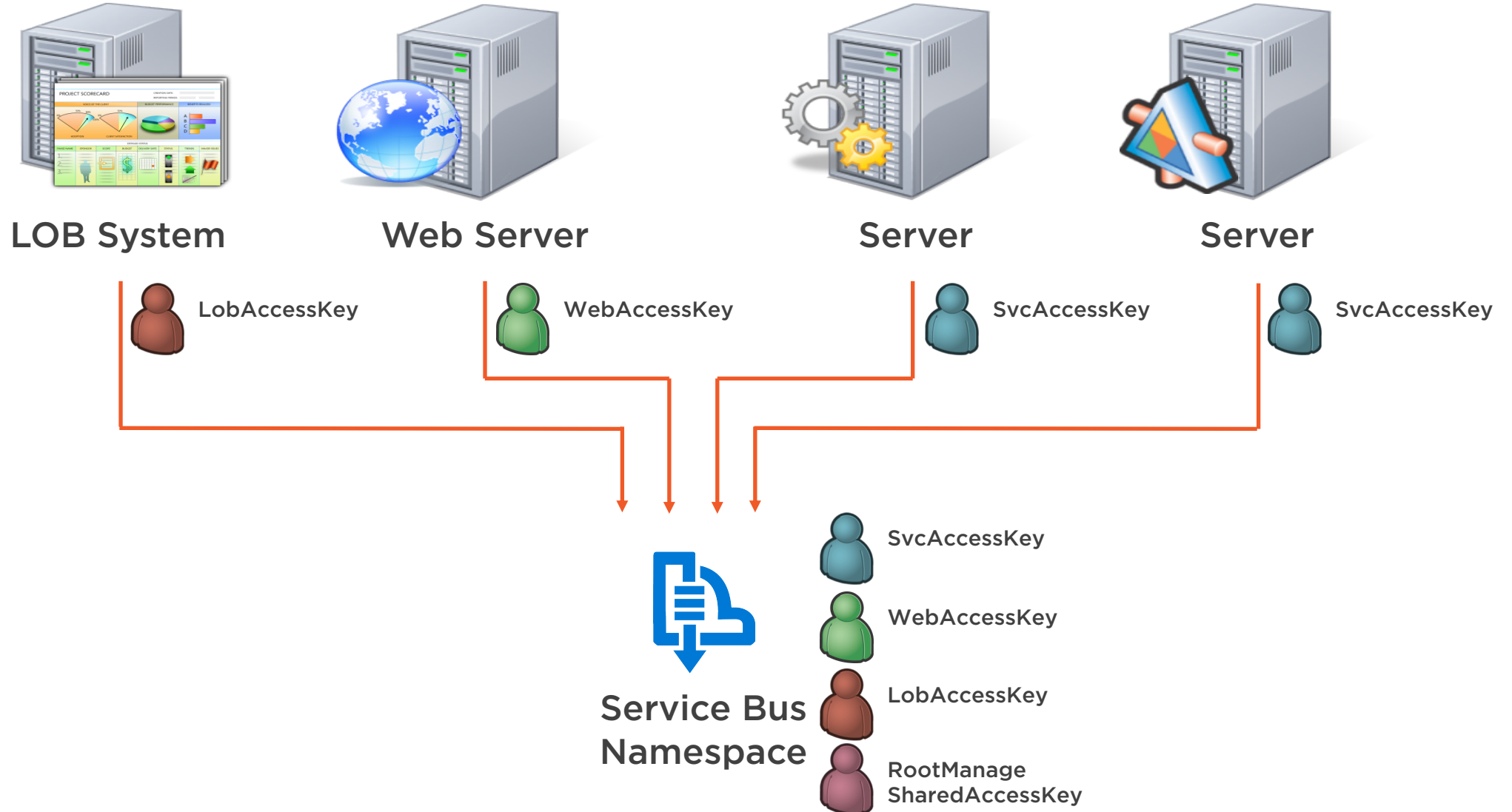
# Database Security



# Azure Service Bus



# Azure Service Bus



# Working with Shared Access Signatures

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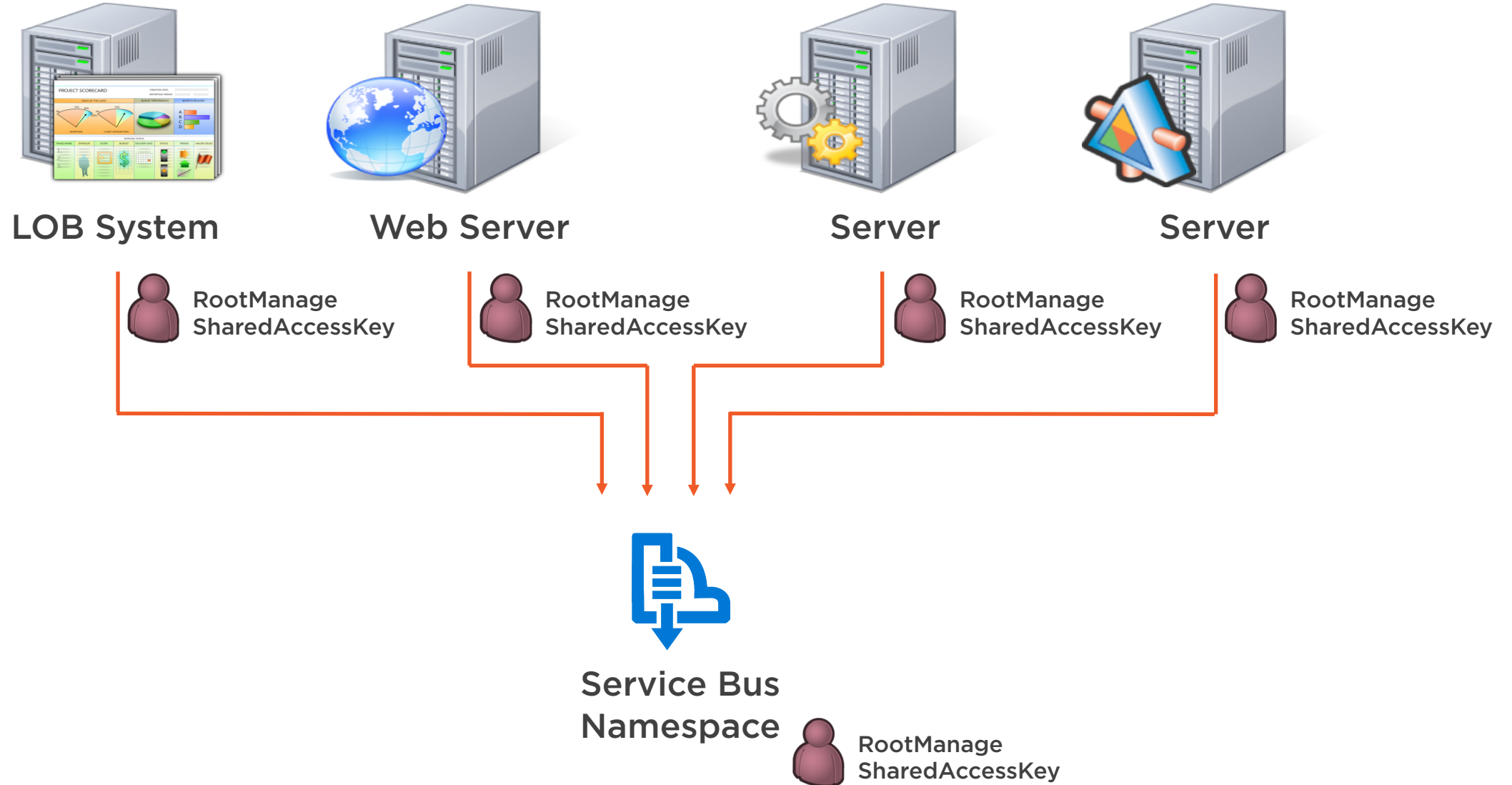
# Shared Access Signatures (SAS)

- Provides delegated and granular access to resources
- Credentials to authenticate with Service Bus namespaces and entities
  - Policy name
  - Primary key
  - Secondary key
- Credentials can be assigned to namespaces, queues, topics and subscriptions

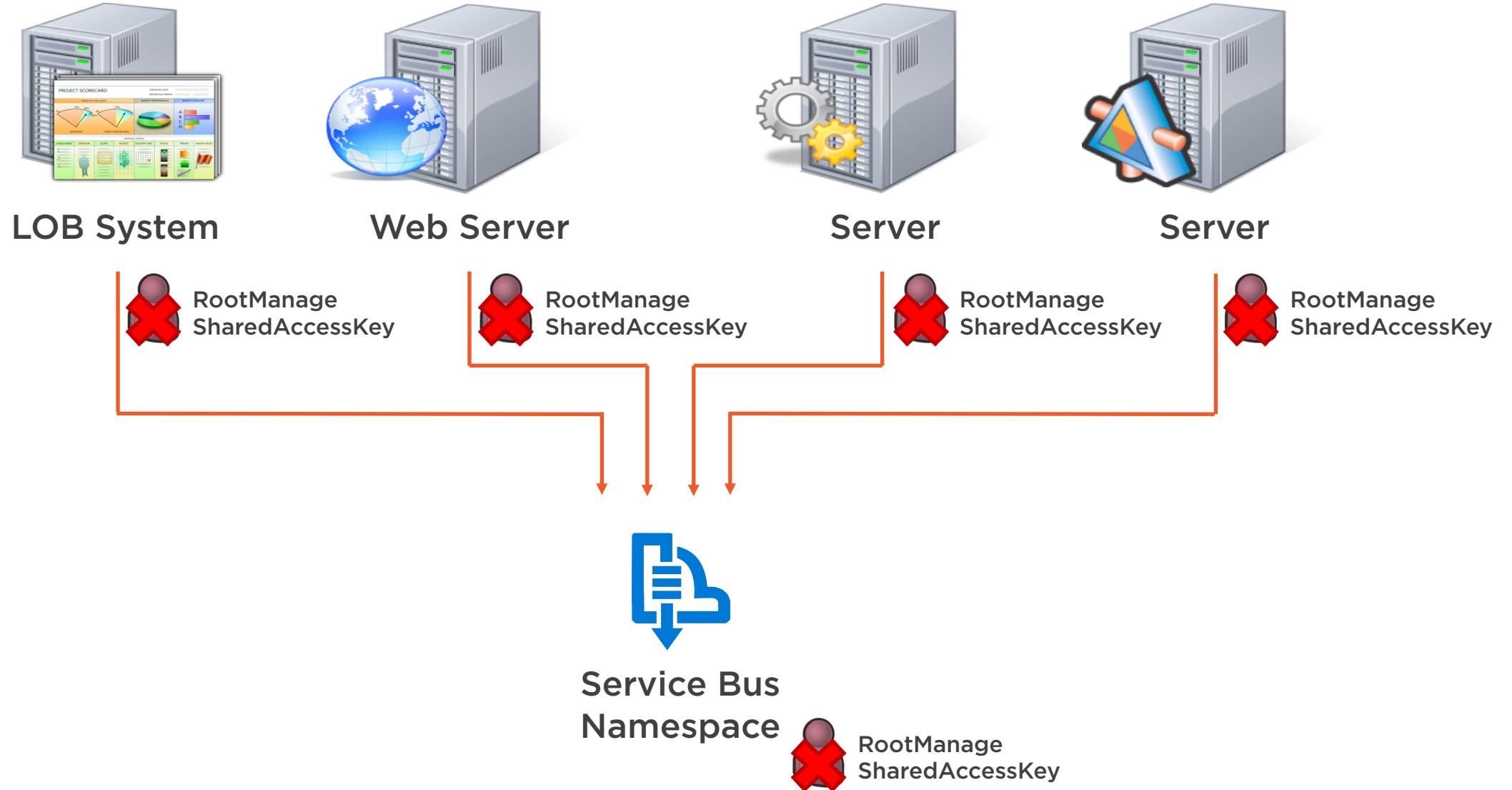
# Service Bus Claims

Claim	Brokered Messaging
Manage	Manage artifacts
Send	Send messages to queues and topics
Listen	Receive messages from queues and subscriptions

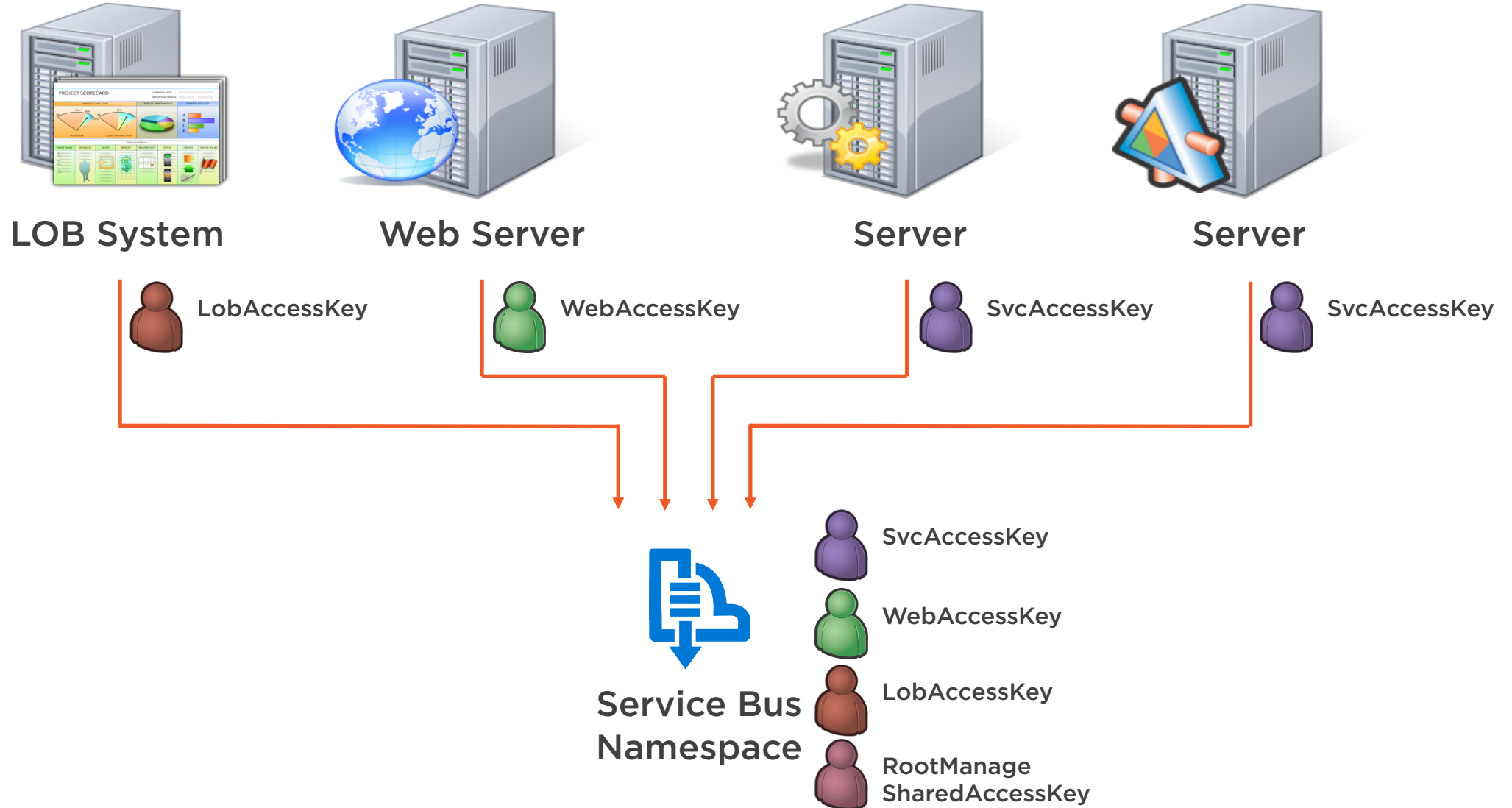
# Azure Service Bus



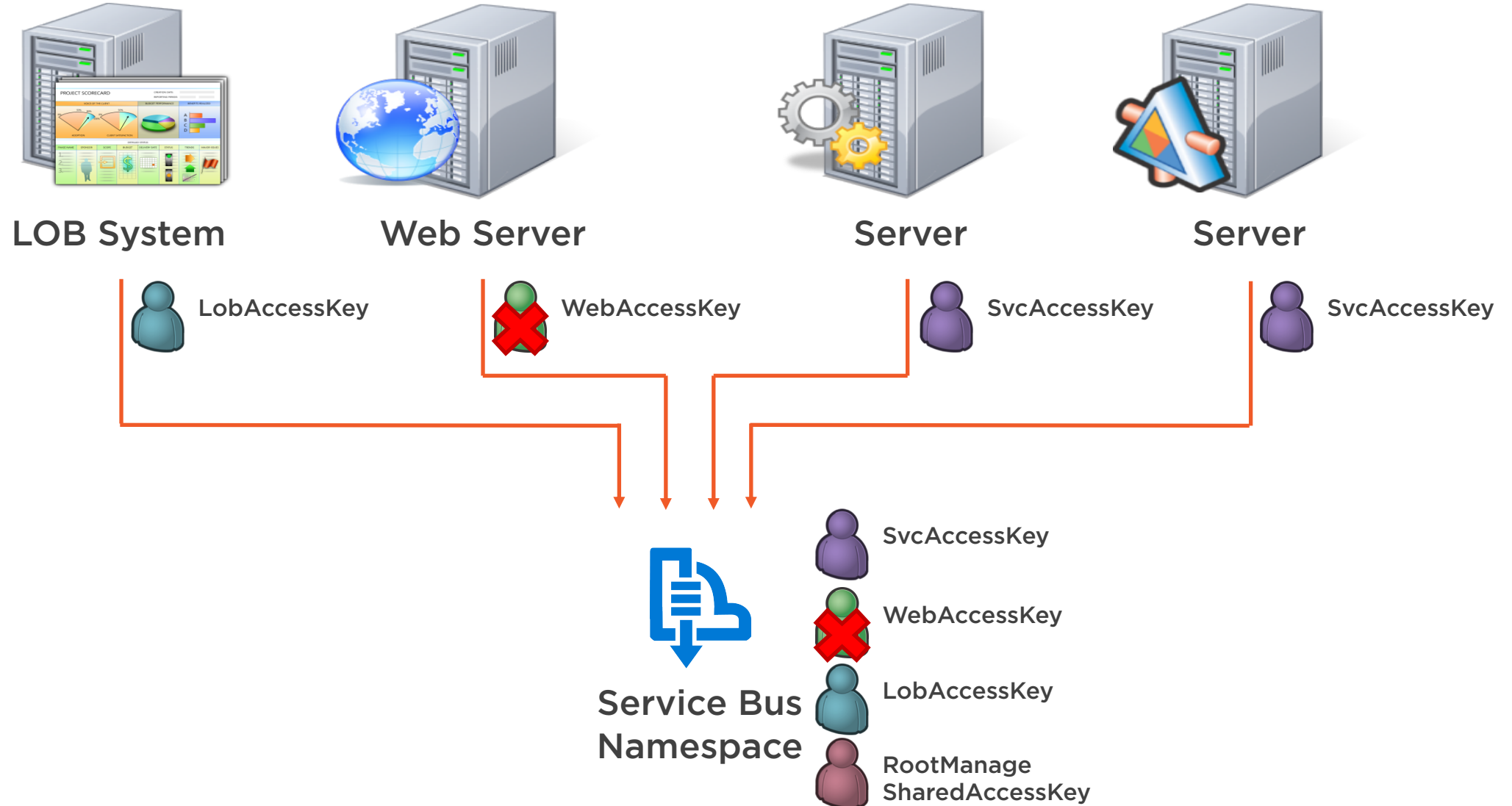
# Azure Service Bus



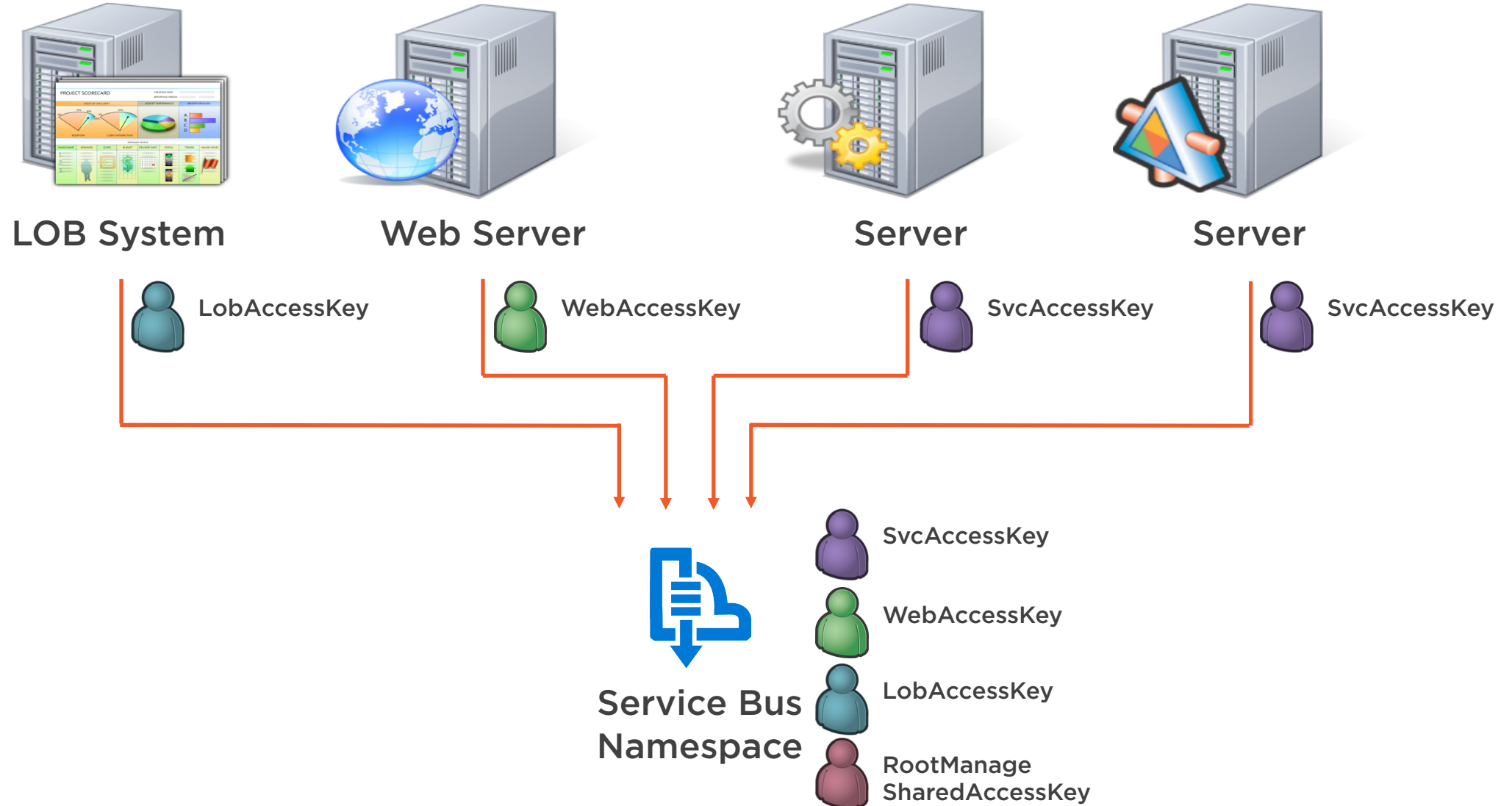
# Azure Service Bus



# Azure Service Bus



# Azure Service Bus



# Shared Access Signatures (SAS)

All services > Service Bus > alansbdemos - Shared access policies

## alansbdemos - Shared access policies

Service Bus Namespace

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

### Settings

- Shared access policies**
- Geo-Recovery
- Migrate to premium
- Properties
- Locks
- Export template

### Entities

- Queues
- Topics

+ Add

Search to filter items...

policy	Claims
RootManageSharedAccessKey	Manage, Send, Listen
<b>TestAppKey</b>	Manage, Send, Listen

### SAS Policy: TestAppKey

Save Discard More

☒ Manage

☒ Send

☒ Listen

Primary Key

lyRgYa1eqFV7N0d22wJDjvqqVemH8q...

Secondary Key

ImKB8C3GSLhOtnuvslpXk8pwUz4W...

Primary Connection String

Endpoint=sb://alansbdemos.servicebu...

Secondary Connection String

Endpoint=sb://alansbdemos.servicebu...



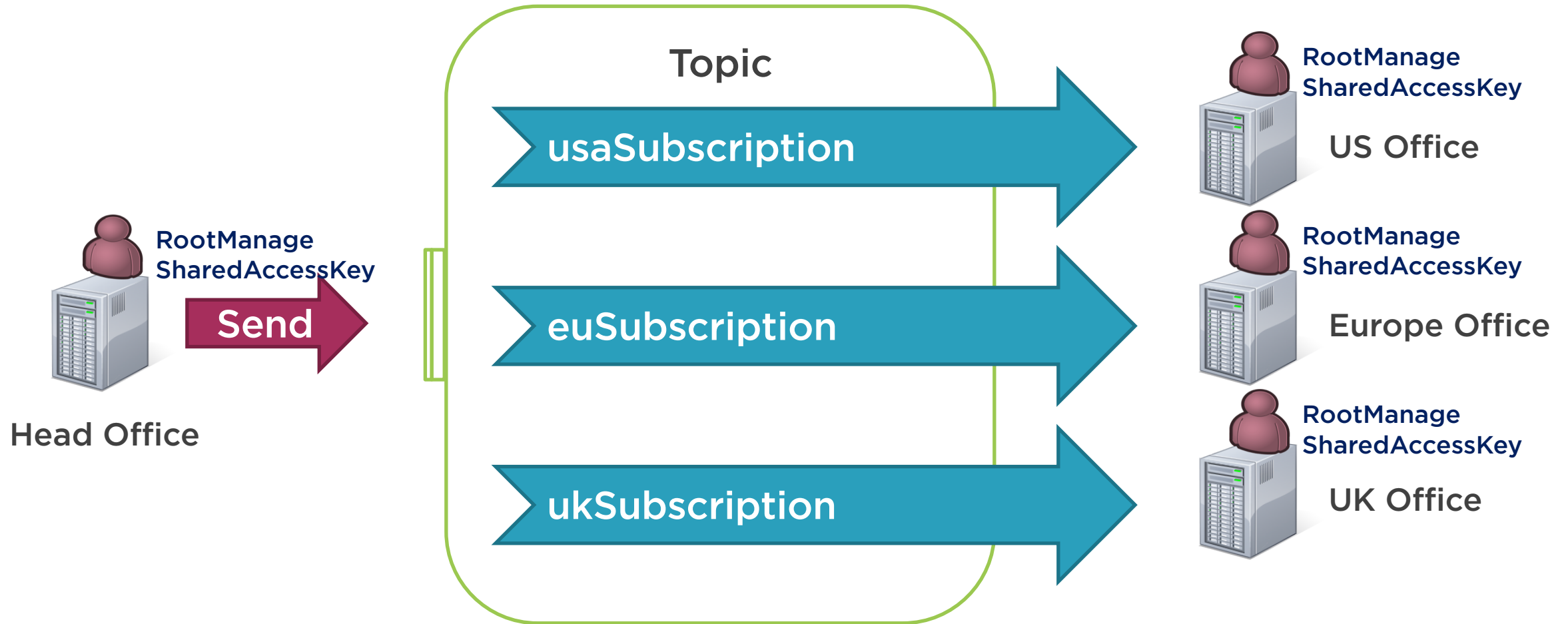
# Demo



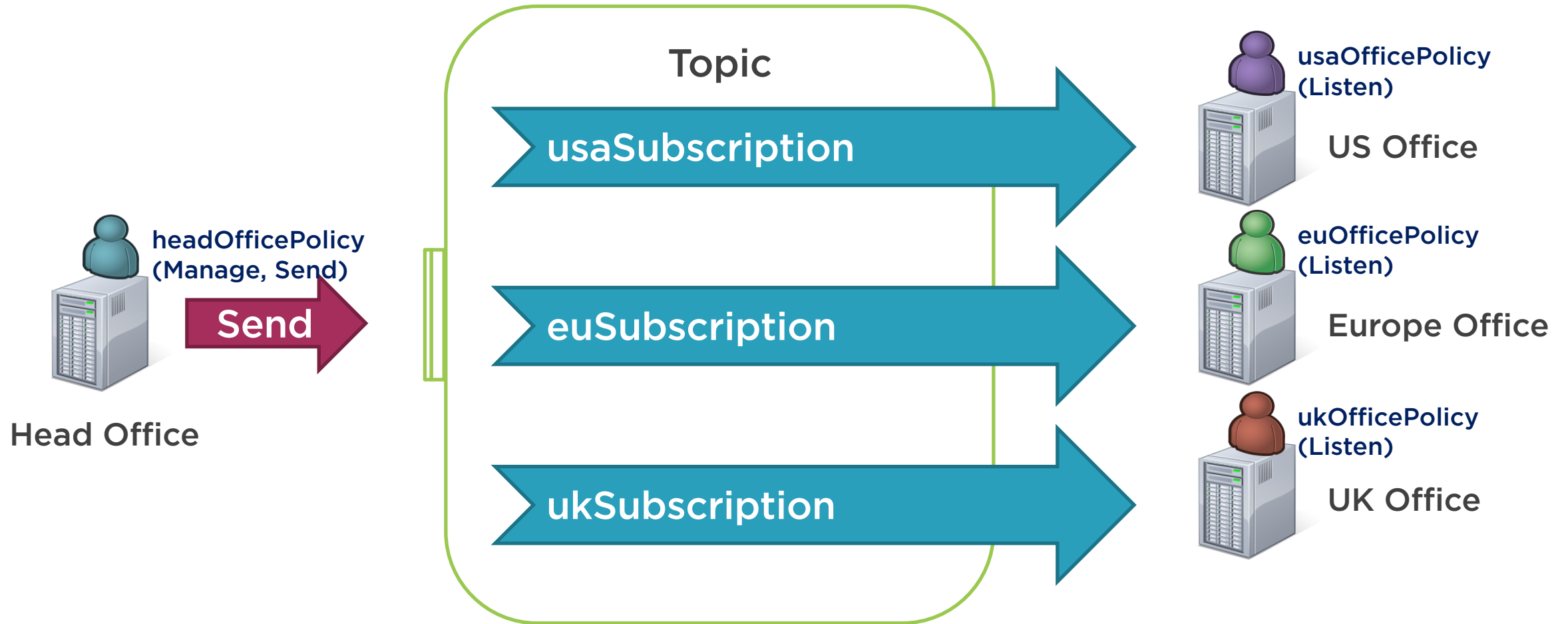
## Demo: Securing Service Bus Artifacts using Shared Access Signatures

- Using RootManageSharedAccessKey
- Regenerating keys
- Creating shared access signatures
- Using shared access signatures

# Demo Scenario



# Demo Scenario



# Summary



Shared Access Signatures (SAS) are used for authentication in the service bus

The `RootManageSharedAccessKey` SAS is created with the service bus namespace

Has Manage, Send and Listen credentials on the service bus namespace

Controlling granular access on the service bus is similar to a database server

Create identities

Grant access

Issue credentials to applications

Using `RootManageSharedAccessKey` should be avoided in production applications