

# Azure security baseline for Azure Network Function Manager

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This security baseline applies guidance from the [Microsoft cloud security benchmark version 1.0](#) to Azure Network Function Manager. The Microsoft cloud security benchmark provides recommendations on how you can secure your cloud solutions on Azure. The content is grouped by the security controls defined by the Microsoft cloud security benchmark and the related guidance applicable to Azure Network Function Manager.

You can monitor this security baseline and its recommendations using Microsoft Defender for Cloud. Azure Policy definitions will be listed in the Regulatory Compliance section of the Microsoft Defender for Cloud portal page.

When a feature has relevant Azure Policy Definitions, they are listed in this baseline to help you measure compliance with the Microsoft cloud security benchmark controls and recommendations. Some recommendations may require a paid Microsoft Defender plan to enable certain security scenarios.

## Note

Features not applicable to Azure Network Function Manager have been excluded.

## Security profile

The security profile summarizes high-impact behaviors of Azure Network Function Manager, which may result in increased security considerations.

 Expand table

Service Behavior Attribute	Value
Product Category	DevOps, Hybrid/Multi-Cloud, Networking
Customer can access HOST / OS	No Access
Service can be deployed into customer's virtual network	False
Stores customer content at rest	False

# Network security

For more information, see the [Microsoft cloud security benchmark: Network security](#).

## NS-2: Secure cloud services with network controls

### Features

#### Azure Private Link

**Description:** Service native IP filtering capability for filtering network traffic (not to be confused with NSG or Azure Firewall). [Learn more](#).

 Expand table

Supported	Enabled By Default	Configuration Responsibility
False	Not Applicable	Not Applicable

Configuration Guidance: This feature is not supported to secure this service.

# Privileged access


For more information, see the [Microsoft cloud security benchmark: Privileged access](#).

## PA-8: Determine access process for cloud provider support

### Features

#### Customer Lockbox

Description: Customer Lockbox can be used for Microsoft support access. [Learn more](#).

 Expand table

Supported	Enabled By Default	Configuration Responsibility
False	Not Applicable	Not Applicable

Configuration Guidance: This feature is not supported to secure this service.

# Data protection

For more information, see the [Microsoft cloud security benchmark: Data protection](#).

## DP-1: Discover, classify, and label sensitive data

# Features

## Sensitive Data Discovery and Classification

**Description:** Tools (such as Azure Purview or Azure Information Protection) can be used for data discovery and classification in the service. [Learn more](#).

 Expand table

Supported	Enabled By Default	Configuration Responsibility
False	Not Applicable	Not Applicable

**Configuration Guidance:** This feature is not supported to secure this service.

## DP-2: Monitor anomalies and threats targeting sensitive data

# Features

## Data Leakage/Loss Prevention

**Description:** Service supports DLP solution to monitor sensitive data movement (in customer's content). [Learn more](#).

 Expand table

Supported	Enabled By Default	Configuration Responsibility
False	Not Applicable	Not Applicable


**Configuration Guidance:** This feature is not supported to secure this service.

## DP-3: Encrypt sensitive data in transit

### Features

#### Data in Transit Encryption

**Description:** Service supports data in-transit encryption for data plane. [Learn more](#).

 Expand table

Supported	Enabled By Default	Configuration Responsibility
True	True	Microsoft

**Feature notes:** The Azure Network Function Manager has mandated the implementation of Transport Layer Security (TLS) version 1.2 across all network traffic, ensuring the encryption of data in transit.

**Configuration Guidance:** No additional configurations are required as this is enabled on a default deployment.

## DP-4: Enable data at rest encryption by default

### Features

#### Data at Rest Encryption Using Platform Keys

**Description:** Data at-rest encryption using platform keys is supported, any customer content at rest is encrypted with these Microsoft managed keys. [Learn more](#).

 Expand table

Supported	Enabled By Default	Configuration Responsibility
True	True	Microsoft

**Feature notes:** In the Azure Network Function Manager, data is secured by default through encryption with a Platform Managed Key (PMK).


**Configuration Guidance:** No additional configurations are required as this is enabled on a default deployment.

# DP-5: Use customer-managed key option in data at rest encryption when required

## Features

### Data at Rest Encryption Using CMK

**Description:** Data at-rest encryption using customer-managed keys is supported for customer content stored by the service. [Learn more](#).

 Expand table

Supported	Enabled By Default	Configuration Responsibility
False	Not Applicable	Not Applicable

**Configuration Guidance:** This feature is not supported to secure this service.

# Asset management


For more information, see the [Microsoft cloud security benchmark: Asset management](#).

## AM-2: Use only approved services

### Features

#### Azure Policy Support

**Description:** Service configurations can be monitored and enforced via Azure Policy. [Learn more](#).

 Expand table

Supported	Enabled By Default	Configuration Responsibility
False	Not Applicable	Not Applicable

**Feature notes:** It's probably possible to create policies againsts Microsoft.Hybridnetworking ANFM resources and properties, but it's not tested or documented on Learn.

**Configuration Guidance:** This feature is not supported to secure this service.

# Logging and threat detection


For more information, see the [Microsoft cloud security benchmark: Logging and threat detection](#).

# LT-1: Enable threat detection capabilities

## Features

### Microsoft Defender for Service / Product Offering

**Description:** Service has an offering-specific Microsoft Defender solution to monitor and alert on security issues. [Learn more](#).

 Expand table

Supported	Enabled By Default	Configuration Responsibility
False	Not Applicable	Not Applicable


**Configuration Guidance:** This feature is not supported to secure this service.

# LT-4: Enable logging for security investigation

## Features

### Azure Resource Logs

**Description:** Service produces resource logs that can provide enhanced service-specific metrics and logging. The customer can configure these resource logs and send them to their own data sink like a storage account or log analytics workspace. [Learn more](#).

 Expand table



Supported	Enabled By Default	Configuration Responsibility
False	Not Applicable	Not Applicable

**Configuration Guidance:** This feature is not supported to secure this service.

# Backup and recovery


For more information, see the [Microsoft cloud security benchmark: Backup and recovery](#).

## BR-1: Ensure regular automated backups

### Features

#### Azure Backup

**Description:** The service can be backed up by the Azure Backup service. [Learn more](#).

 Expand table


Supported	Enabled By Default	Configuration Responsibility
False	Not Applicable	Not Applicable

**Feature notes:** Customers who use Azure Network Function Manager cannot use Azure Backup for their data protection. However, periodic backups should be configured for the Azure Stack Edge devices to which the network functions are deployed. For more information, see the Azure Security Benchmark page for Azure Stack Edge.

**Configuration Guidance:** This feature is not supported to secure this service.

## Service Native Backup Capability

**Description:** Service supports its own native backup capability (if not using Azure Backup). [Learn more](#).

 Expand table

Supported	Enabled By Default	Configuration Responsibility
False	Not Applicable	Not Applicable

**Configuration Guidance:** This feature is not supported to secure this service.

## Next steps

- See the [Microsoft cloud security benchmark overview](#)
- Learn more about [Azure security baselines](#)