# **■** NetApp

## **Ports**

Setup and administration

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### **Ports**

# Security group rules in AWS

The AWS security group for the Connector requires both inbound and outbound rules. BlueXP automatically creates this security group when you create a Connector from BlueXP. You need to set up this security group for all other installation options.

#### Inbound rules

Protocol	Port	Purpose	
SSH	22	Provides SSH access to the Connector host	
HTTP	80	Provides HTTP access from client web browsers to the local user interface	
HTTPS	443	Provides HTTPS access from client web browsers to the local user interface, and connections from the BlueXP classification instance	
TCP	3128	Provides Cloud Volumes ONTAP with internet access to send AutoSupport messages to NetApp Support. You must manually open this port after deployment. Learn how the Connector is used as a proxy for AutoSupport messages	
TCP	9060, 9061	Provides the ability to enable and use BlueXP classification and BlueXP backup and recovery in Government regions.	

#### **Outbound rules**

The predefined security group for the Connector opens all outbound traffic. If that is acceptable, follow the basic outbound rules. If you need more rigid rules, use the advanced outbound rules.

#### Basic outbound rules

The predefined security group for the Connector includes the following outbound rules.

Protocol	Port	Purpose
All TCP	All	All outbound traffic
All UDP	All	All outbound traffic

#### Advanced outbound rules

If you need rigid rules for outbound traffic, you can use the following information to open only those ports that are required for outbound communication by the Connector.



The source IP address is the Connector host.

Service	Prot ocol	_	Destination	Purpose
API calls and AutoSupport		44 3	Outbound internet and ONTAP cluster management LIF	API calls to AWS, to ONTAP, to BlueXP classification, to BlueXP ransomware protection, and sending AutoSupport messages to NetApp
API calls	TCP	30 00	ONTAP HA mediator	Communication with the ONTAP HA mediator
	TCP	80 80	BlueXP classification	Probe to BlueXP classification instance during deployment
DNS	UDP	53	DNS	Used for DNS resolve by BlueXP

# Security group rules in Azure

The Azure security group for the Connector requires both inbound and outbound rules. BlueXP automatically creates this security group when you create a Connector from BlueXP. You need to set up this security group for all other installation options.

#### Inbound rules

Protoc ol	Port	Purpose		
SSH	22 Provides SSH access to the Connector host			
HTTP	80	Provides HTTP access from client web browsers to the local user interface		
HTTP S	443	Provides HTTPS access from client web browsers to the local user interface, and connections from the BlueXP classification instance		
TCP	3128	Provides Cloud Volumes ONTAP with internet access to send AutoSupport messages to NetApp Support. You must manually open this port after deployment. Learn how the Connector is used as a proxy for AutoSupport messages		
TCP	9060, 9061	Provides the ability to enable and use BlueXP classification and BlueXP backup and recovery in Government regions.		

#### **Outbound rules**

The predefined security group for the Connector opens all outbound traffic. If that is acceptable, follow the basic outbound rules. If you need more rigid rules, use the advanced outbound rules.

#### Basic outbound rules

The predefined security group for the Connector includes the following outbound rules.

Protoc ol	Por t	Purpose
All TCP	All	All outbound traffic
All UDP	All	All outbound traffic

#### Advanced outbound rules

If you need rigid rules for outbound traffic, you can use the following information to open only those ports that are required for outbound communication by the Connector.



The source IP address is the Connector host.

Service	Prot ocol	_	Destination	Purpose
API calls and AutoSupport		44 3	Outbound internet and ONTAP cluster management LIF	API calls to Azure, to ONTAP, to BlueXP classification, to BlueXP ransomware protection, and sending AutoSupport messages to NetApp
API calls	TCP	80 80	BlueXP classification	Probe to BlueXP classification instance during deployment
DNS	UDP	53	DNS	Used for DNS resolve by BlueXP

# Firewall rules in Google Cloud

The Google Cloud firewall rules for the Connector requires both inbound and outbound rules. BlueXP automatically creates this security group when you create a Connector from BlueXP. You need to set up this security group for all other installation options.

#### Inbound rules

Protocol	Port	Purpose	
SSH	22	Provides SSH access to the Connector host	
HTTP	80	Provides HTTP access from client web browsers to the local user interface	
HTTPS	443	Provides HTTPS access from client web browsers to the local user interface	
TCP	3128	Provides Cloud Volumes ONTAP with internet access to send AutoSupport messages to NetApp Support. You must manually open this port after deployment. Learn how the Connector is used as a proxy for AutoSupport messages	

#### **Outbound rules**

The predefined firewall rules for the Connector opens all outbound traffic. If that is acceptable, follow the basic outbound rules. If you need more rigid rules, use the advanced outbound rules.

#### Basic outbound rules

The predefined firewall rules for the Connector includes the following outbound rules.

Protocol	Port	Purpose
All TCP	All	All outbound traffic
All UDP	All	All outbound traffic

#### Advanced outbound rules

If you need rigid rules for outbound traffic, you can use the following information to open only those ports that are required for outbound communication by the Connector.



The source IP address is the Connector host.

Service	Prot ocol	_	Destination	Purpose
API calls and AutoSupport		44 3	Outbound internet and ONTAP cluster management LIF	API calls to Google Cloud, to ONTAP, to BlueXP classification, to BlueXP ransomware protection, and sending AutoSupport messages to NetApp
API calls	TCP	80 80	BlueXP classification	Probe to BlueXP classification instance during deployment
DNS	UDP	53	DNS	Used for DNS resolve by BlueXP

# Ports for the on-prem Connector

The Connector uses *inbound* ports when installed manually on an on-premises Linux host. You might need to refer to these ports for planning purposes.

These inbound rules apply to all BlueXP deployment models.

Protocol	Port	Purpose	
HTTP	80	Provides HTTP access from client web browsers to the local user interface	
HTTPS	443	Provides HTTPS access from client web browsers to the local user interface	

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