

# Windows Server Fail-over Clustering / SQL Cluster Firewall Access Rules

## Windows Server Clustering

TCP/UDP Port Description

TCP/UDP 53 User & Computer Authentication [DNS]

TCP/UDP 88 User & Computer Authentication [Kerberos]

UDP 123 Windows Time [NTP]

TCP 135 Cluster DCOM Traffic [RPC, EPM]

UDP 137 User & Computer Authentication [NetLogon, NetBIOS]

UDP 138 DSF, Group Policy [DFSN, NetLogon, NetBIOS Datagram Service]

TCP 139 DSF, Group Policy [DFSN, NetLogon, NetBIOS Datagram Service]

UDP 161 SNMP

TCP/UDP 162 SNMP Traps

TCP/UDP 389 User & Computer Authentication [LDAP]

TCP/UDP 445 User & Computer Authentication [SMB, SMB2, CIFS]

TCP/UDP 464 User & Computer Authentication [Kerberos Change/Set Password]

TCP 636 User & Computer Authentication [LDAP SSL]

TCP 3268 Microsoft Global Catalog

TCP 3269 Microsoft Global Catalog [SSL]

TCP/UDP 3343 Cluster Network Communication

TCP 5985 WinRM 2.0 [Remote PowerShell]

TCP 5986 WinRM 2.0 HTTPS [Remote PowerShell SECURE]

TCP/UDP 49152-65535 Dynamic TCP/UDP [CAN BE CHANGED]

## SQL Server

TCP/UDP Port Description

TCP 1433 SQL Server/Availability Group Listener [CAN BE CHANGED]

UDP 1434 SQL Server Browser

UDP 2382 SQL Server Analysis Services Browser

TCP 2383 SQL Server Analysis Services Listener  
TCP 5022 SQL Server DBM/AG Endpoint [CAN BE CHANGED]  
UDP 49152-65535 Dynamic TCP/UDP [CAN BE CHANGED]

### **Active Directory Traffic**

Source IP Range : Server's IP Range  
Destination IP Range [Active Directory Servers]  
TCP Ports 53,88,389,464,636,3268,3269  
UDP Ports 53,88,389,464

### **Windows Server Fail-over Clustering Traffic**

TCP Ports 135,139,445,1433,2383,3343,5022,5985,5986  
UDP Ports 137,138,445,1434,2382,3343,49152-65535

### **Windows Time Traffic**

TCP Ports N/A  
UDP Ports 123

### **Client SQL Server Access Traffic**

TCP Ports 1433,2383 (If default port used)  
UDP Ports 1434,2382

For a comprehensive list of Services and their associated network port numbers, please refer the [Microsoft Official Guide](#)

*[source: Microsoft]*