

## Samba ports usage

# Introduction

If you require to secure your Samba installation with a firewall, you would need information, what ports and protocols are used. This page will give you an overview.

## Identify on which ports and interfaces Samba is listening

You can use "netstat" to identify which ports Samba and related daemons are listening on and on which IPs:

```
# netstat -tulpn | egrep "samba|smbd|nmbd|winbind"
```

The following is a snippet of an example output:

```
tcp        0      0 127.0.0.1:139          0.0.0.0:*
LISTEN    43270/smbd
tcp        0      0 10.0.0.1:139          0.0.0.0:*
LISTEN    43270/smbd
tcp        0      0 10.0.0.1:88           0.0.0.0:*
LISTEN    43273/samba
tcp        0      0 127.0.0.1:88          0.0.0.0:*
LISTEN    43273/samba
tcp        0      0 127.0.0.1:445         0.0.0.0:*
LISTEN    43270/smbd
tcp        0      0 10.12.112.84:445     0.0.0.0:*
LISTEN    43270/smbd
.....
```

The above example shows, that the services are listening on localhost (127.0.0.1) and the interface with IP 10.12.112.84 - each on the listed ports (139, 88, 445,...).

## Port usage when Samba runs as DC

Services	Port	Protocol
DNS	53	TCP/UDP
Kerberos	88	TCP/UDP
NTP	123	UDP
End Point Mapper (DCE/RPC Locator Service)	135	TCP
NetBIOS Name Service	137	UDP
NetBIOS Datagram	138	UDP
NetBIOS Session	139	TCP
LDAP	389	TCP/UDP
SMB over TCP	445	TCP/UDP
Kerberos kpasswd	464	TCP/UDP
LDAPS ( <i>only if "tls enabled = yes"</i> )	636	TCP
Dynamic RPC Ports*	1024-5000	TCP
Global Cataloge	3268	TCP
Global Cataloge SSL ( <i>only if "tls enabled = yes"</i> )	3269	TCP
Multicast DNS	5353	TCP/UDP

\* Samba, like Windows, supports dynamic RPC services. The range starts at 1024. If something occupies this port for some reason, it will be a different port (literally walked up from 1024).

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