

# Microsoft DNS Server Documentation

2K19-DC



<b>Date</b>	15/01/2021 14:45:51
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<b>Version</b>	1.02
<b>Product</b>	XIA Configuration Server [13.0.0.0]

# Table of Contents

Disclaimer

Microsoft DNS Server Information

Client Information	6
Relationships	7
Relationship Map	8

Server Summary

Conditional Forwarders

Host

Service	12
---------	----

Forward Lookup Zones

_msdcs.test2019.net	14
Resource Records	16
secondary.contoso.com	18
Resource Records	19
signed.contoso.com	20
DNSSEC Settings	22
Key Signing Key (RSA/SHA-256)	23
Zone Signing Key (RSA/SHA-256)	24
Resource Records	25
stub.contoso.com	26
Resource Records	27
test2019.net	28
Resource Records	30

Reverse Lookup Zones

0.in-addr.arpa	35
Resource Records	37
127.in-addr.arpa	38
Resource Records	40
255.in-addr.arpa	41

Resource Records	43
89.168.192.in-addr.arpa	44
Resource Records	46
Server Settings	
Diagnostics	52
Trust Points	
signed.contoso.com	55
Delegation Signer (DS) (RSA/SHA-256)	56
DNS KEY (DNSKEY) (RSA/SHA-256)	57
Version History	

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# Microsoft DNS Server Information

Provides general information for this item.

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## General Information

Name	2K19-DC
Description	Domain controller for test2019.net
Primary Owner Name	Technical Services
Primary Owner Contact	technicalservices@contoso.com

---

## System Information

Item Path	Contoso Technical Services
Item ID	1117
Version ID	1.02
Check Out Status	Available

---

## Custom Item Details

This is a demonstration Windows Server 2019 DNS server, hosting the DNS zones for Active Directory for the test2019.net domain.

# Client Information

Provides information about the client that was used to generate the information and the data used by the client to uniquely identify this item.

---

## Item Identifiers

Primary Identifier	2K19-DC
Secondary Identifier	VMware-56 4d a3 e4 d4 28 4b da-69 dc b3 bb db cf 9f 7f
Tertiary Identifier	
Environment Identifier	

---

## Client Information

Client Machine Name	XCS-2K19-LIVE
Client Identifier	1167d6f3-3b76-4261-a236-72de1fc24be8
Client IP Address	192.168.131.201
Client Scan Date	15 January 2021 14:33 (today)
Client Service Username	TEST2019\sysadmin
Client Version	13.0.0.0

---








## Scan Profile

Target	2K19-DC
Profile Name	DNS
Profile Identifier	f4119926-b241-4e31-9a55-dea07ac96183

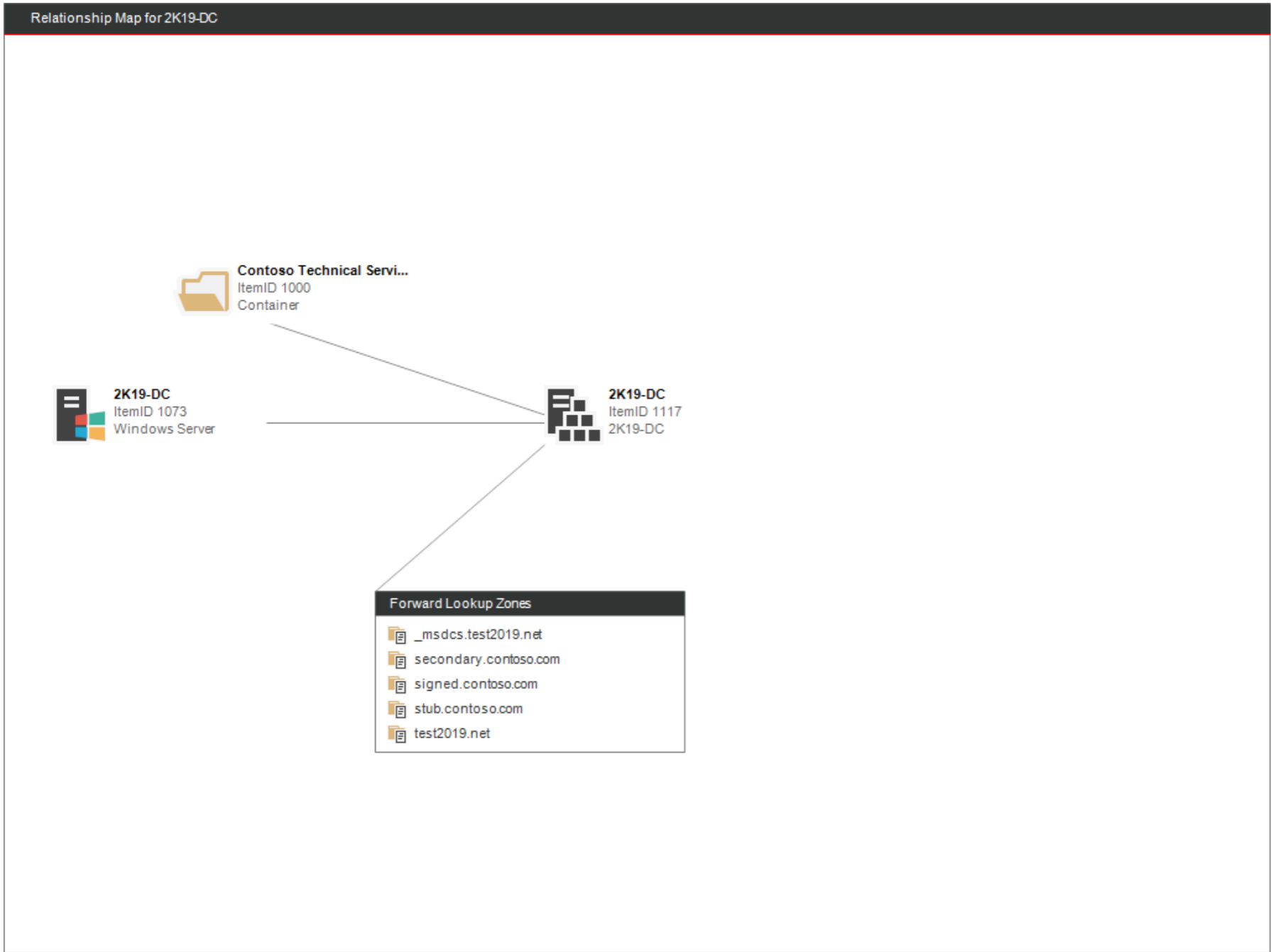
# Relationships

Provides a summary of the relationships between this item and other items in the environment.

## 7 Relationships

Item ID	Direction	Name	Type	Relationship Type
 1073	Outbound	2K19-DC	Windows Server	Hosted On
 1000	Outbound	Contoso Technical Services	Container	Contained Within
 Internal	Outbound	_msdcs.test2019.net	Forward Lookup Zone	Hosts Forward Lookup Zone
 Internal	Outbound	secondary.contoso.com	Forward Lookup Zone	Hosts Forward Lookup Zone
 Internal	Outbound	signed.contoso.com	Forward Lookup Zone	Hosts Forward Lookup Zone
 Internal	Outbound	stub.contoso.com	Forward Lookup Zone	Hosts Forward Lookup Zone
 Internal	Outbound	test2019.net	Forward Lookup Zone	Hosts Forward Lookup Zone

# Relationship Map





# Server Summary

DNS is a system that is used in TCP/IP networks for naming computers and network services. DNS naming locates computers and services through user-friendly names.

## General Settings

Admin Configured	True
Version	10.0.17763.0

## Interfaces

Listening IP Addresses	fe80::4c3c:3282:29cc:f8e6 192.168.131.191
------------------------	----------------------------------------------

## Host Information

Computer Fully Qualified Domain Name	2K19-DC.test2019.net
Operating System Name	Microsoft Windows Server 2019 Datacenter
Service Pack	None Installed




# Conditional Forwarders

Conditional forwarders allow the DNS server to forward queries to external DNS servers for specific zone names.

---

## 1 Conditional Forwarders

Zone Name	Timeout (Secs)	DS Integrated	Master Servers	Replication Scope
 external.contoso.com	5	False	172.23.90.124 2001:4898:7020:f100:458f:e6a2:fcaf:698c	Not Applicable

# Host

This section provides information about the host platform.

## General Settings

Computer Fully Qualified Domain Name	2K19-DC.test2019.net
Operating System Name	Microsoft Windows Server 2019 Datacenter
Service Pack	None Installed



## Hardware

Manufacturer	VMware, Inc.
Model	VMware Virtual Platform
Serial Number	VMware-56 4d a3 e4 d4 28 4b da-69 dc b3 bb db cf 9f 7f
Processors	Intel(R) Core(TM) i7-6700HQ CPU @ 2.60GHz

# Service

Provides details of the DNS Windows service running on the host system.

## Windows Service

Name	DNS
Display Name	DNS Server
Description	Enables DNS clients to resolve DNS names by answering DNS queries and dynamic DNS update requests. If this service is stopped, DNS updates will not occur. If this service is disabled, any services that explicitly depend on it will fail to start.

## Advanced

Allow Interaction With Desktop	False
Path Name	C:\Windows\system32\dns.exe
Service Execution Type	Own Process
Start Mode	Automatic
Service State	Running

## Dependencies

Service Depends On	Tcpip Afd RpcSs NTDS
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## Log On

Account Name	LocalSystem
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## Recovery

First Failure Action	Restart the Service
Second Failure Action	Restart the Computer
Subsequent Failure Action	Take No action
Reset Failure Count	0 days
Service Restart Delay	1111 minutes
Enable Actions for Stops with Errors	True
Computer Restart Delay	2222 minutes

# Forward Lookup Zones

Forward lookup zones are used to resolve network resource names to IP addresses.

## 5 Zones

Name	Type	Status	DNSSEC Status	Key Master
 _msdcs.test2019.net	Primary	Running	Not Signed	
 secondary.contoso.com	Secondary	Running		
 signed.contoso.com	Primary	Running	Signed	2K19-DC.test2019.net
 stub.contoso.com	Stub	Running		
 test2019.net	Primary	Running	Not Signed	

# \_msdcs.test2019.net

This section provides information about this forward lookup zone.

## General Settings

Status	Running
Zone Type	Primary
Automatically Created	False
DNSSEC Status	Not Signed
Ignore Policies	False
Zone File	Data stored in Active Directory

## Directory Settings

Active Directory Integrated	True
Allowed Domain Controllers For NS Registration	
Directory Partition Name	ForestDnsZones.test2019.net
Replication Scope	Forest
Distinguished Name	DC=_msdcs.test2019.net,cn=MicrosoftDNS,DC=ForestDnsZones,DC=test2019,DC=net
Read-Only	False

## Dynamic Updates

Dynamic Update Type	Secure only
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## Start Of Authority (SOA)

Serial Number	72
Primary Server	2k19-dc.test2019.net.
Responsible Person	hostmaster.test2019.net.
Refresh Interval	15 minutes
Retry Interval	10 minutes
Expires After (Seconds)	1 day
Minimum (Default) TTL	1 hour
Time To Live (TTL)	1 hour

## Aging/Scavenging

Scavenge Stale Resource Records	False
No-Refresh Interval	7 days
Refresh Interval	7 days

---

 Zone Transfers

Allowed Zone Transfers

None

Automatically Notify

None


---

 WINS

Use WINS Lookup

False


---

 2 Name Servers

Server Fully Qualified Domain Name (FQDN)

IP Addresses

 2k19-dc.test2019.net.

 2k19-dc-2.test2019.net.

---

## Resource Records

This section provides information about the resource records configured for the zone.

### 22 Resource Records

Name	Record Type	Timestamp	Data
@	Name Server (NS)	Static	2k19-dc-2.test2019.net.
@	Name Server (NS)	Static	2k19-dc.test2019.net.
@	Start of Authority (SOA)	Static	[72][2k19-dc.test2019.net.][hostmaster.test2019.net.][1.00:00:00][01:00:00][00:15:00][00:10:00]
_kerberos._tcp.dc	Service Location (SRV)	11/01/2021 11:00:00	[0][100][88][2k19-dc.test2019.net.]
_kerberos._tcp.dc	Service Location (SRV)	15/01/2021 13:00:00	[0][100][88][2K19-DC-2.test2019.net.]
_kerberos._tcp.Default-First-Site-Name._sites.dc	Service Location (SRV)	18/11/2020 17:00:00	[0][100][88][2K19-DC-2.test2019.net.]
_kerberos._tcp.Default-First-Site-Name._sites.dc	Service Location (SRV)	11/01/2021 11:00:00	[0][100][88][2k19-dc.test2019.net.]
_ldap._tcp.a4786e88-d3d5-4b05-a351-becc5af6afbc.domains	Service Location (SRV)	11/01/2021 11:00:00	[0][100][389][2k19-dc.test2019.net.]
_ldap._tcp.a4786e88-d3d5-4b05-a351-becc5af6afbc.domains	Service Location (SRV)	18/11/2020 17:00:00	[0][100][389][2K19-DC-2.test2019.net.]
_ldap._tcp.dc	Service Location (SRV)	11/01/2021 11:00:00	[0][100][389][2k19-dc.test2019.net.]
_ldap._tcp.dc	Service Location (SRV)	15/01/2021 13:00:00	[0][100][389][2K19-DC-2.test2019.net.]
_ldap._tcp.Default-First-Site-Name._sites.dc	Service Location (SRV)	11/01/2021 11:00:00	[0][100][389][2k19-dc.test2019.net.]
_ldap._tcp.Default-First-Site-Name._sites.dc	Service Location (SRV)	18/11/2020 17:00:00	[0][100][389][2K19-DC-2.test2019.net.]
_ldap._tcp.Default-First-Site-Name._sites.gc	Service Location (SRV)	11/01/2021 11:00:00	[0][100][3268][2k19-dc.test2019.net.]
_ldap._tcp.Default-First-Site-Name._sites.gc	Service Location (SRV)	15/01/2021 13:00:00	[0][100][3268][2K19-DC-2.test2019.net.]
_ldap._tcp.gc	Service Location (SRV)	13/01/2021 11:00:00	[0][100][3268][2k19-dc.test2019.net.]



_ldap._tcp.gc	Service Location (SRV)	15/01/2021 13:00:00	[0][100][3268][2K19-DC-2.test2019.net.]
_ldap._tcp.pdc	Service Location (SRV)	11/01/2021 11:00:00	[0][100][389][2k19-dc.test2019.net.]
34d6e574-e0e4-43d8-b047-1a5ad5e5bf80	Alias (CNAME)	15/01/2021 13:00:00	2K19-DC-2.test2019.net.
be6a371b-75f3-40d8-9625-760e7c65da0e	Alias (CNAME)	11/01/2021 11:00:00	2K19-DC.test2019.net.
gc	Host (A)	15/01/2021 13:00:00	192.168.131.192
gc	Host (A)	15/01/2021 14:00:00	192.168.131.191

# secondary.contoso.com

This section provides information about this forward lookup zone.

## General Settings

Status	Running
Zone Type	Secondary
Automatically Created	False
Ignore Policies	False
Zone File	secondary.contoso.com.dns
Master Servers	192.168.131.192

## Directory Settings

Active Directory Integrated	False
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## Start Of Authority (SOA)

Serial Number	1
Primary Server	2k19-dc-2.test2019.net.
Responsible Person	hostmaster.test2019.net.
Refresh Interval	15 minutes
Retry Interval	10 minutes
Expires After (Seconds)	1 day
Minimum (Default) TTL	1 hour
Time To Live (TTL)	1 hour

## Zone Transfers Updates

Last Successful SOA Check	15/01/2021 14:31:35
Last Successful Zone Transfer	15/01/2021 14:31:35
Last Zone Transfer Attempt	15/01/2021 14:31:35
Last Zone Transfer Result	0

## WINS

Use WINS Lookup	False
-----------------	-------

## 1 Name Servers

Server Fully Qualified Domain Name (FQDN)	IP Addresses
 2k19-dc-2.test2019.net.	

## Resource Records

This section provides information about the resource records configured for the zone.

This section does not contain any information.

# signed.contoso.com

This section provides information about this forward lookup zone.

## General Settings

Status	Running
Zone Type	Primary
Automatically Created	False
DNSSEC Status	Signed
Ignore Policies	False
Zone File	Data stored in Active Directory

## Directory Settings

Active Directory Integrated	True
Allowed Domain Controllers For NS Registration	
Directory Partition Name	DomainDnsZones.test2019.net
Replication Scope	Domain
Distinguished Name	DC=signed.contoso.com,cn=MicrosoftDNS,DC=DomainDnsZones,DC=test2019,DC=net
Read-Only	False

## Dynamic Updates

Dynamic Update Type	Secure only
---------------------	-------------


## Start Of Authority (SOA)

Serial Number	2
Primary Server	2k19-dc.test2019.net.
Responsible Person	hostmaster.test2019.net.
Refresh Interval	15 minutes
Retry Interval	10 minutes
Expires After (Seconds)	1 day
Minimum (Default) TTL	1 hour
Time To Live (TTL)	1 hour

## Aging/Scavenging

Scavenge Stale Resource Records	False
No-Refresh Interval	7 days
Refresh Interval	7 days

---

 Zone Transfers

Allowed Zone Transfers

None

Automatically Notify

None


---

 WINS

Use WINS Lookup

False

---

 1 Name Servers

Server Fully Qualified Domain Name (FQDN)

IP Addresses

 2k19-dc.test2019.net.

# DNSSEC Settings

Domain Name System Security Extensions (DNSSEC) is a suite of extensions that add security by providing origin authority, data integrity, and authenticated denial of existence making the DNS server less susceptible to certain types of attacks.

## Key Master

Key Master Server	2K19-DC.test2019.net
Key Master Status	Online

## Next Secure (NSEC)

Denial Of Existence Type	NSEC3
Use Salt	True
NSEC3 Random Salt Length	8



## Trust Anchor

Distribute Trust Anchor	False
Automatic Update On Key Rollover (RFC 5011)	True

## Advanced

DS Record Generation Algorithms	SHA-1, SHA-256
DS Record Set TTL (Seconds)	1 hour
DNSKEY Record Set TTL (Seconds)	1 hour
Signature Inception Offset	1 hour
Secure Delegation Polling Period	12 hours

## 2 Signing Keys

Type	Algorithm	Key Length	KSP
 Key Signing Key	RSA/SHA-256	2048	Microsoft Software Key Storage Provider
 Zone Signing Key	RSA/SHA-256	1024	Microsoft Software Key Storage Provider

## Key Signing Key (RSA/SHA-256)

This section provides information about the zone signing keys (ZSK) and key signing keys (KSK).

### General Settings

Key Type	Key Signing Key
Identifier	af50692b-b1c3-48c9-be08-2c94634cb523

### Key Generation

Active Key	{ABC9F13C-7586-45B8-8BC1-31B958EF15C9}
Standby Key	{C4AF31F6-A4FE-422F-8279-E0B5B68B635A}

### Key Properties

Cryptographic Algorithm	RSA/SHA-256
Key Length	2,048
Key Storage Provider	Microsoft Software Key Storage Provider
DNSKEY Signature Validity Period	7 days
Store Keys In Active Directory	True

### Key Rollover

Enable Automatic Rollover	True
Rollover Frequency	755 days
Delay First Rollover	{Not Configured}

## Zone Signing Key (RSA/SHA-256)

This section provides information about the zone signing keys (ZSK) and key signing keys (KSK).

### General Settings

Key Type	Zone Signing Key
Identifier	004d87e3-d7ac-4001-ba3c-67091f11d4f2

### Key Properties

Cryptographic Algorithm	RSA/SHA-256
Key Length	1,024
Key Storage Provider	Microsoft Software Key Storage Provider
DNSKEY Signature Validity Period	7 days
DS Signature Validity Period	7 days
Zone Record Validity Period	10 days

### Key Rollover

Enable Automatic Rollover	True
Rollover Frequency	90 days
Delay First Rollover	{Not Configured}



## Resource Records

This section provides information about the resource records configured for the zone.

### 14 Resource Records

Name	Record Type	Timestamp	Data
@	Name Server (NS)	Static	2k19-dc.test2019.net.
@	Start of Authority (SOA)	Static	[2][2k19-dc.test2019.net.][hostmaster.test2019.net.][1.00:00:00][01:00:00][00:15:00][00:10:00]
@	RR Signature (RRSIG)	Static	[RRSIG]
@	RR Signature (RRSIG)	Static	[RRSIG]
@	RR Signature (RRSIG)	Static	[RRSIG]
@	RR Signature (RRSIG)	Static	[RRSIG]
@	RR Signature (RRSIG)	Static	[RRSIG]
@	DNS KEY (DNSKEY)	Static	[DNSKEY]
@	DNS KEY (DNSKEY)	Static	[DNSKEY]
@	DNS KEY (DNSKEY)	Static	[DNSKEY]
@	DNS KEY (DNSKEY)	Static	[DNSKEY]
@	Next Secure 3 Parameters (NSEC3PARAM)	Static	[NSEC3PARAM]
f1ef7dhd17fo4t4rlfo2l13lk3obghrq	RR Signature (RRSIG)	Static	[RRSIG]
f1ef7dhd17fo4t4rlfo2l13lk3obghrq	Next Secure 3 (NSEC3)	Static	[NSEC3]

This section provides information about this forward lookup zone.

## General Settings

Status	Running
Zone Type	Stub
Automatically Created	False
Zone File	stub.contoso.com.dns
Master Servers	192.168.131.192

## Directory Settings

Active Directory Integrated	False
-----------------------------	-------

## Start Of Authority (SOA)

Serial Number	1
Primary Server	2k19-dc-2.test2019.net.
Responsible Person	hostmaster.test2019.net.
Refresh Interval	15 minutes
Retry Interval	10 minutes
Expires After (Seconds)	1 day
Minimum (Default) TTL	1 hour
Time To Live (TTL)	1 hour

## Zone Transfers Updates

Last Successful SOA Check	15/01/2021 14:29:50
Last Successful Zone Transfer	15/01/2021 14:29:50
Last Zone Transfer Attempt	15/01/2021 14:29:50
Last Zone Transfer Result	0

## 1 Name Servers

Server Fully Qualified Domain Name (FQDN)	IP Addresses
 2k19-dc-2.test2019.net.	192.168.131.192

## Resource Records

This section provides information about the resource records configured for the zone.

This section does not contain any information.

This section provides information about this forward lookup zone.

## General Settings

Status	Running
Zone Type	Primary
Automatically Created	False
DNSSEC Status	Not Signed
Ignore Policies	False
Zone File	Data stored in Active Directory

## Directory Settings

Active Directory Integrated	True
Allowed Domain Controllers For NS Registration	
Directory Partition Name	DomainDnsZones.test2019.net
Replication Scope	Domain
Distinguished Name	DC=test2019.net,cn=MicrosoftDNS,DC=DomainDnsZones,DC=test2019,DC=net
Read-Only	False

## Dynamic Updates

Dynamic Update Type	Secure only
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## Start Of Authority (SOA)

Serial Number	1,353
Primary Server	2k19-dc.test2019.net.
Responsible Person	hostmaster.test2019.net.
Refresh Interval	15 minutes
Retry Interval	10 minutes
Expires After (Seconds)	1 day
Minimum (Default) TTL	1 hour
Time To Live (TTL)	1 hour

## Aging/Scavenging

Scavenge Stale Resource Records	False
No-Refresh Interval	7 days
Refresh Interval	7 days

---

 Zone Transfers

Allowed Zone Transfers

None

Automatically Notify

None


---

 WINS

Use WINS Lookup

False

---


 2 Name Servers

Server Fully Qualified Domain Name (FQDN)

IP Addresses

 2k19-dc.test2019.net.

192.168.131.191


 2k19-dc-2.test2019.net.

192.168.131.192

---

## Resource Records

This section provides information about the resource records configured for the zone.

 67 Resource Records

Name	Record Type	Timestamp	Data
@	Host (A)	15/01/2021 14:00:00	192.168.131.191
@	Host (A)	18/11/2020 17:00:00	192.168.131.192
@	Name Server (NS)	Static	2k19-dc-2.test2019.net.
@	Name Server (NS)	Static	2k19-dc.test2019.net.
@	Start of Authority (SOA)	Static	[1353][2k19-dc.test2019.net.][hostmaster.test2019.net.][1.00:00:00][01:00:00][00:15:00][00:10:00]
_gc._tcp	Service Location (SRV)	15/01/2021 14:00:00	[0][100][3268][2k19-dc.test2019.net.]
_gc._tcp	Service Location (SRV)	15/01/2021 13:00:00	[0][100][3268][2K19-DC-2.test2019.net.]
_gc._tcp.Default-First-Site-Name._sites	Service Location (SRV)	04/01/2021 15:00:00	[0][100][3268][2K19-DC-2.test2019.net.]
_gc._tcp.Default-First-Site-Name._sites	Service Location (SRV)	11/01/2021 11:00:00	[0][100][3268][2k19-dc.test2019.net.]
_kerberos._tcp	Service Location (SRV)	15/01/2021 13:00:00	[0][100][88][2K19-DC-2.test2019.net.]
_kerberos._tcp	Service Location (SRV)	11/01/2021 11:00:00	[0][100][88][2k19-dc.test2019.net.]
_kerberos._tcp.Default-First-Site-Name._sites	Service Location (SRV)	04/01/2021 15:00:00	[0][100][88][2K19-DC-2.test2019.net.]
_kerberos._tcp.Default-First-Site-Name._sites	Service Location (SRV)	11/01/2021 11:00:00	[0][100][88][2k19-dc.test2019.net.]
_kerberos._udp	Service Location (SRV)	15/01/2021 13:00:00	[0][100][88][2K19-DC-2.test2019.net.]
_kerberos._udp	Service Location (SRV)	11/01/2021 11:00:00	[0][100][88][2k19-dc.test2019.net.]
_kpasswd._tcp	Service Location (SRV)	04/01/2021 15:00:00	[0][100][464][2K19-DC-2.test2019.net.]
_kpasswd._tcp	Service Location	11/01/2021 11:00:00	[0][100][464][2k19-dc.test2019.net.]

	(SRV)		
_kpasswd._udp	Service Location (SRV)	15/01/2021 13:00:00	[0][100][464][2K19-DC-2.test2019.net.]
_kpasswd._udp	Service Location (SRV)	11/01/2021 11:00:00	[0][100][464][2k19-dc.test2019.net.]
_ldap._tcp	Service Location (SRV)	15/01/2021 13:00:00	[0][100][389][2K19-DC-2.test2019.net.]
_ldap._tcp	Service Location (SRV)	11/01/2021 11:00:00	[0][100][389][2k19-dc.test2019.net.]
_ldap._tcp.Default-First-Site-Name._sites	Service Location (SRV)	11/01/2021 11:00:00	[0][100][389][2k19-dc.test2019.net.]
_ldap._tcp.Default-First-Site-Name._sites	Service Location (SRV)	04/01/2021 15:00:00	[0][100][389][2K19-DC-2.test2019.net.]
_ldap._tcp.Default-First-Site-Name._sites.DomainDnsZones	Service Location (SRV)	11/01/2021 11:00:00	[0][100][389][2k19-dc.test2019.net.]
_ldap._tcp.Default-First-Site-Name._sites.DomainDnsZones	Service Location (SRV)	15/01/2021 13:00:00	[0][100][389][2K19-DC-2.test2019.net.]
_ldap._tcp.Default-First-Site-Name._sites.ForestDnsZones	Service Location (SRV)	11/01/2021 11:00:00	[0][100][389][2k19-dc.test2019.net.]
_ldap._tcp.Default-First-Site-Name._sites.ForestDnsZones	Service Location (SRV)	04/01/2021 15:00:00	[0][100][389][2K19-DC-2.test2019.net.]
_ldap._tcp.DomainDnsZones	Service Location (SRV)	04/01/2021 15:00:00	[0][100][389][2K19-DC-2.test2019.net.]
_ldap._tcp.DomainDnsZones	Service Location (SRV)	11/01/2021 11:00:00	[0][100][389][2k19-dc.test2019.net.]
_ldap._tcp.ForestDnsZones	Service Location (SRV)	11/01/2021 11:00:00	[0][100][389][2k19-dc.test2019.net.]
_ldap._tcp.ForestDnsZones	Service Location (SRV)	15/01/2021 13:00:00	[0][100][389][2K19-DC-2.test2019.net.]
_msdcs	Name Server (NS)	Static	2k19-dc.test2019.net.
2k19-dc	Host (A)	Static	192.168.131.191
2K19-DC-2	Host (A)	Static	192.168.131.192
ag-listener	Host (A)	04/01/2021 16:00:00	192.168.131.199
BEXEC21-2K19	Host (A)	05/01/2021 15:00:00	192.168.131.204
CAUCLUSTxj2	Host (A)	04/01/2021 16:00:00	192.168.131.209

CAUCLUSTxj2	Host (A)	04/01/2021 16:00:00	192.168.131.196
CLUSTER-2K19	Host (A)	04/01/2021 16:00:00	192.168.131.197
CLUSTER-2K19-1	Host (A)	04/01/2021 16:00:00	192.168.131.196
CLUSTER-2K19-2	Host (A)	04/01/2021 16:00:00	192.168.131.209
DomainDnsZones	Host (A)	15/01/2021 13:00:00	192.168.131.192
DomainDnsZones	Host (A)	11/01/2021 11:00:00	192.168.131.191
EXCH-2K19-S1	Host (A)	11/12/2020 09:00:00	192.168.131.208
ForestDnsZones	Host (A)	04/01/2021 15:00:00	192.168.131.192
ForestDnsZones	Host (A)	11/01/2021 11:00:00	192.168.131.191
HVS-2K19-1	Host (A)	21/08/2020 14:00:00	192.168.131.209
HYPERV-2K19-1	Host (A)	13/01/2021 11:00:00	192.168.131.189
NLB-2K19	Host (A)	Static	192.168.131.150
NLB-2K19-1	Host (A)	Static	192.168.131.149
NLB-2K19-2	Host (A)	04/01/2021 16:00:00	192.168.131.148
NotepadRole	Host (A)	04/01/2021 16:00:00	192.168.131.195
SoFS-2K19	Host (A)	04/01/2021 16:00:00	192.168.131.209
SoFS-2K19	Host (A)	04/01/2021 16:00:00	192.168.131.196
SQL2017-2K19-1	Host (A)	21/08/2020 16:00:00	192.168.131.227
SQLCLUSTER-2K19	Host (A)	09/09/2020 11:00:00	192.168.131.198
STORAGE-2K19-1	Host (A)	04/01/2021 16:00:00	192.168.131.202
VM-2K19-1	Host (A)	14/12/2018 15:00:00	192.168.131.143
W10-LTSC19-X86	Host (A)	21/09/2020 16:00:00	192.168.131.241
W10-LTSC-2019	Host (A)	26/06/2020 13:00:00	192.168.131.213
W10-X64-2004	Host (A)	08/01/2021 10:00:00	192.168.131.195
W10-X86-2004	Host (A)	07/10/2020 13:00:00	192.168.131.202
XAS-2K19-LIVE	Host (A)	25/08/2020 12:00:00	192.168.131.211
XCS-2K19-LIVE	Host (A)	15/01/2021 10:00:00	192.168.131.201
XCS-2K19-REMSQL	Host (A)	05/06/2020 15:00:00	192.168.131.192
XLC-W10-LIVE	Host (A)	06/04/2020 15:00:00	192.168.131.202







XLS-2K19-LIVE	Host (A)	06/11/2020 09:00:00	192.168.131.210
---------------	----------	---------------------	-----------------

# Reverse Lookup Zones

Reverse lookup zones are used to resolve IP addresses to network resource names.

## 4 Zones

Name	Type	Status	DNSSEC Status	Key Master
 0.in-addr.arpa	Primary	Running	Not Signed	
 127.in-addr.arpa	Primary	Running	Not Signed	
 255.in-addr.arpa	Primary	Running	Not Signed	
 89.168.192.in-addr.arpa	Primary	Running	Not Signed	

# 0.in-addr.arpa

This section provides information about this reverse lookup zone.

## General Settings

Status	Running
Zone Type	Primary
Automatically Created	True
DNSSEC Status	Not Signed
Ignore Policies	True
Zone File	Zone is automatically created

## Directory Settings

Active Directory Integrated	False
-----------------------------	-------

## Dynamic Updates

Dynamic Update Type	None
---------------------	------

## Start Of Authority (SOA)

Serial Number	1
Primary Server	2k19-dc.test2019.net.
Responsible Person	hostmaster.test2019.net.
Refresh Interval	15 minutes
Retry Interval	10 minutes
Expires After (Seconds)	1 day
Minimum (Default) TTL	1 hour
Time To Live (TTL)	1 hour

## Aging/Scavenging

Scavenge Stale Resource Records	False
No-Refresh Interval	7 days
Refresh Interval	7 days


## Zone Transfers

Allowed Zone Transfers	Servers configured for the zone.
Automatically Notify	Servers configured for the zone

## WINS-R

Use WINS Lookup	False
-----------------	-------

---


 1 Name Servers

Server Fully Qualified Domain Name (FQDN)	IP Addresses
 2k19-dc.test2019.net.	

## Resource Records

This section provides information about the resource records configured for the zone.

---

 2 Resource Records

Name	Record Type	Timestamp	Data
@	Name Server (NS)	Static	2k19-dc.test2019.net.
@	Start of Authority (SOA)	Static	[1][2k19-dc.test2019.net.][hostmaster.test2019.net.][1.00:00:00][01:00:00][00:15:00][00:10:00]

# 127.in-addr.arpa

This section provides information about this reverse lookup zone.

## General Settings

Status	Running
Zone Type	Primary
Automatically Created	True
DNSSEC Status	Not Signed
Ignore Policies	True
Zone File	Zone is automatically created

## Directory Settings

Active Directory Integrated	False
-----------------------------	-------

## Dynamic Updates

Dynamic Update Type	None
---------------------	------

## Start Of Authority (SOA)

Serial Number	1
Primary Server	2k19-dc.test2019.net.
Responsible Person	hostmaster.test2019.net.
Refresh Interval	15 minutes
Retry Interval	10 minutes
Expires After (Seconds)	1 day
Minimum (Default) TTL	1 hour
Time To Live (TTL)	1 hour

## Aging/Scavenging

Scavenge Stale Resource Records	False
No-Refresh Interval	7 days
Refresh Interval	7 days


## Zone Transfers

Allowed Zone Transfers	Servers configured for the zone.
Automatically Notify	Servers configured for the zone

## WINS-R

Use WINS Lookup	False
-----------------	-------

---

 1 Name Servers

Server Fully Qualified Domain Name (FQDN)	IP Addresses
 2k19-dc.test2019.net.	

## Resource Records

This section provides information about the resource records configured for the zone.

### 3 Resource Records

Name	Record Type	Timestamp	Data
@	Name Server (NS)	Static	2k19-dc.test2019.net.
@	Start of Authority (SOA)	Static	[1][2k19-dc.test2019.net.][hostmaster.test2019.net.][1.00:00:00][01:00:00][00:15:00][00:10:00]
1.0.0	Pointer (PTR)	Static	localhost.



# 255.in-addr.arpa

This section provides information about this reverse lookup zone.

## General Settings

Status	Running
Zone Type	Primary
Automatically Created	True
DNSSEC Status	Not Signed
Ignore Policies	True
Zone File	Zone is automatically created

## Directory Settings

Active Directory Integrated	False
-----------------------------	-------

## Dynamic Updates

Dynamic Update Type	None
---------------------	------

## Start Of Authority (SOA)

Serial Number	1
Primary Server	2k19-dc.test2019.net.
Responsible Person	hostmaster.test2019.net.
Refresh Interval	15 minutes
Retry Interval	10 minutes
Expires After (Seconds)	1 day
Minimum (Default) TTL	1 hour
Time To Live (TTL)	1 hour

## Aging/Scavenging

Scavenge Stale Resource Records	False
No-Refresh Interval	7 days
Refresh Interval	7 days


## Zone Transfers

Allowed Zone Transfers	Servers configured for the zone.
Automatically Notify	Servers configured for the zone

## WINS-R

Use WINS Lookup	False
-----------------	-------

---


 1 Name Servers

Server Fully Qualified Domain Name (FQDN)	IP Addresses
 2k19-dc.test2019.net.	

## Resource Records

This section provides information about the resource records configured for the zone.

---

 2 Resource Records

Name	Record Type	Timestamp	Data
@	Name Server (NS)	Static	2k19-dc.test2019.net.
@	Start of Authority (SOA)	Static	[1][2k19-dc.test2019.net.][hostmaster.test2019.net.][1.00:00:00][01:00:00][00:15:00][00:10:00]

# 89.168.192.in-addr.arpa

This section provides information about this reverse lookup zone.

## General Settings

Status	Running
Zone Type	Primary
Automatically Created	False
DNSSEC Status	Not Signed
Ignore Policies	False
Zone File	Data stored in Active Directory

## Directory Settings

Active Directory Integrated	True
Allowed Domain Controllers For NS Registration	
Directory Partition Name	DomainDnsZones.test2019.net
Replication Scope	Domain
Distinguished Name	DC=89.168.192.in-addr.arpa,cn=MicrosoftDNS,DC=DomainDnsZones,DC=test2019,DC=net
Read-Only	False

## Dynamic Updates

Dynamic Update Type	Secure only
---------------------	-------------


## Start Of Authority (SOA)

Serial Number	2
Primary Server	2k19-dc.test2019.net.
Responsible Person	hostmaster.test2019.net.
Refresh Interval	15 minutes
Retry Interval	10 minutes
Expires After (Seconds)	1 day
Minimum (Default) TTL	1 hour
Time To Live (TTL)	1 hour

## Aging/Scavenging

Scavenge Stale Resource Records	False
No-Refresh Interval	7 days
Refresh Interval	7 days

---

 Zone Transfers

Allowed Zone Transfers

None

Automatically Notify

None


---

 WINS-R

Use WINS Lookup

False


---

 2 Name Servers

Server Fully Qualified Domain Name (FQDN)

IP Addresses

 2k19-dc.test2019.net.

 2k19-dc-2.test2019.net.

---

## Resource Records

This section provides information about the resource records configured for the zone.

### 3 Resource Records

Name	Record Type	Timestamp	Data
@	Name Server (NS)	Static	2k19-dc-2.test2019.net.
@	Name Server (NS)	Static	2k19-dc.test2019.net.
@	Start of Authority (SOA)	Static	[2][2k19-dc.test2019.net.][hostmaster.test2019.net.][1.00:00:00][01:00:00][00:15:00][00:10:00]

# Server Settings

DNS is a system that is used in TCP/IP networks for naming computers and network services. DNS naming locates computers and services through user-friendly names.

## General Settings

Admin Configured	True
Version	10.0.17763.0

## Server Options

Enable BIND Secondaries	False
Failed On Load Bad Zone Data	False
Enable Round Robin	True
Enable Netmask Ordering	True
Secure Cache Against Pollution	True
Enable DNSSEC validation for remote responses	True
Name Checking	Multibyte (UTF8)
Load Zone Data	From Active Directory and registry
Scavenging Interval	{Not Configured}

## Interfaces

Listening IP Addresses	fe80::4c3c:3282:29cc:f8e6 192.168.131.191
IP Addresses	fe80::4c3c:3282:29cc:f8e6 192.168.131.191

## Directory

Directory Services Available	True
Allow Read-Only Zone Transfer	False
Domain Directory Partition Base Name	DomainDnsZones
Enable Directory Partitions	True
Enable RSO For RODC Servers	True
Forest Directory Partition Base Name	ForestDnsZones
Read-Only Domain Controller	False
Maximum RODC RSO Attempts Per Cycle	100
Maximum RODC RSO Queue Length	300

## EDNS

Enable Probes	True
Enable Reception	True
Cache Timeout	15 minutes














## Forwarders

Enable Reordering	True
IP Addresses	1.1.1.1
Reordered IP Addresses	1.1.1.1
Timeout (Seconds)	3
Use Root Hints	True

## Global Names Zone

Enabled	True
Always Query Server	False
Block Updates	True
Enable EDNS Probes	True
Global Over Local	False
Prefer AAAA Records	False
Send Timeout (Minutes)	3
Server Query Interval	6 hours

## 13 Root Hints

Server Fully Qualified Domain Name (FQDN)	IP Addresses
 M.ROOT-SERVERS.NET.	202.12.27.33
 L.ROOT-SERVERS.NET.	
 K.ROOT-SERVERS.NET.	
 J.ROOT-SERVERS.NET.	
 I.ROOT-SERVERS.NET.	
 H.ROOT-SERVERS.NET.	
 G.ROOT-SERVERS.NET.	192.112.36.4
 F.ROOT-SERVERS.NET.	
 E.ROOT-SERVERS.NET.	192.203.230.10
 D.ROOT-SERVERS.NET.	
 C.ROOT-SERVERS.NET.	
 B.ROOT-SERVERS.NET.	
 A.ROOT-SERVERS.NET.	



---

 Recursion

Enabled	True
Additional Timeout (Seconds)	4
Retry Interval (Seconds)	3
Secure Response	True
Timeout (Seconds)	8

 Advanced

Address Answer Limit	0
Allow CNAME as NS record target	True
Allow Updates	True
Append MS Zone Transfer Tag	False
Automatically Configure File Zones	Only zones that allow dynamic updates
Automatically Create Delegation	When no delegation present
Automatically Update Root Hints	False
Delete Outside Glue	False
Disable Automatic Reverse Zone Creation	False
Enable Duplicate Query Suppression	True
Enable IPv6	True
Enable IQUERY Response Generation	False
Enable Online Signing	True
Enable Self Test	True
Enable Send Error Suppression	True
Enable Update Forwarding	False
Enable Version Query	False
Enable Wins-R	True
Forward Delegations	False
Global Query Block List Enabled	True
Global Query Block List Host Names	wpad isatap
Lame Delegation TTL (seconds)	{Not Configured}
Local Net Priority Mask	255
Loose Wildcarding	False
Maximum Signature Scan Period	2 days
Maximum TCP Packet Size (Bytes)	65,536
Maximum Trust Anchor Active Refresh Interval	15 days
Maximum UDP Packet Size (Bytes)	4,000
Maximum Resource Records In Non-Secure Update	30
No Update Delegations	False
Open ACL On Proxy Updates	True
Public Automatic Private IP Addresses	False
Quiet Receive Fault Interval (Seconds)	0
Quiet Receive Log Interval (Seconds)	0
Reload On Exception	False
Remote IPv4 Rank Boost	5
Remote IPv6 Rank Boost	0
Root Trust Anchors URL	<a href="https://data.iana.org/root-anchors/root-anchors.xml">https://data.iana.org/root-anchors/root-anchors.xml</a>
RPC Protocols	Local Procedure Call (LPC), TCP/IP

Send Port	Random
Server Level Plug-in	
Silently Ignore CNAME Update Conflicts	False
Socket Pool Excluded Port Ranges	1,2
Socket Pool Size	3,000
Update Options	783
Write Authority NS	False
Transfer Response Timeout (seconds)	30
Transfer Throttle Multiplier	10
Zone Writeback Interval	1 minute

# Diagnostics

Provides diagnostics information for the Microsoft DNS server.

## Debug Logging

Enable Debug Logging	True
----------------------	------

## Packet Direction

Outgoing	True
----------	------

Incoming	True
----------	------

## Transport Protocol

UDP	True
-----	------

TCP	True
-----	------

## Packet Contents

Queries/Transfers	True
-------------------	------

Updates	True
---------	------

Notifications	True
---------------	------

## Packet Type

Request	True
---------	------

Response	True
----------	------

## Other Options

Log Local Lookup Events	False
-------------------------	-------

Log Plugin Events	False
-------------------	-------

Log Recursive Lookup Events	False
-----------------------------	-------

Log Remote Server Events	False
--------------------------	-------

Log Server Start And Stop Events	False
----------------------------------	-------

Log Tombstone Events	False
----------------------	-------

Log Zone Data Write Events	False
----------------------------	-------

Log Zone Loading Events	False
-------------------------	-------

Filtered IP Addresses	1.2.3.4
-----------------------	---------

Details	False
---------	-------

Unmatched Response	False
--------------------	-------


Write Through	False
---------------	-------

---

 Log File

Log File Path	c:\dnsdebuglogging.log
Enable Log File Rollover	False
Max File Size (bytes)	500,000,000
Save Logs To Persistent Storage	False

---

 Event Log

Event Logging Level	Errors and warnings
Use System Event Log	False

# Trust Points

This section provides information about the trust points and trust anchors configured for the DNS server.

1 Trust Points

Name	Status
signed.contoso.com	Active

# signed.contoso.com

This section provides information about the trust point and associated trust anchors.


---

## General Settings

Trust Point State	Active
-------------------	--------

---

## 2 Trust Anchors

Status	Type	Algorithm
 DS Pending	Delegation Signer (DS)	RSA/SHA-256
 Valid	DNS KEY (DNSKEY)	RSA/SHA-256

## Delegation Signer (DS) (RSA/SHA-256)

A trust anchor is a public cryptographic key for a signed zone.

---

### General Settings

Type Display Name	Delegation Signer (DS)
Trust Anchor State	DS Pending
Cryptographic Algorithm	RSA/SHA-256
Key Tag	63513

---

### Advanced

Digest Type	SHA-1
Digest	ED0260968FF6ED47942E1993827145D54991E4CF



# DNS KEY (DNSKEY) (RSA/SHA-256)

A trust anchor is a public cryptographic key for a signed zone.

## General Settings

Type Display Name	DNS KEY (DNSKEY)
Trust Anchor State	Valid
Cryptographic Algorithm	RSA/SHA-256
Key Tag	24880

## Advanced


Zone Key	True
Secure Entry Point	True
Key Protocol	DNSSEC




## Public Key

```
AwEAAbOHlfH8Zs2rKF7Kv+YckMsSF0p5r35iWn44fulAPLynqAJ+vjgrAomKrNfmYKLU0hchI8QZMKsv8HitUHDlg++esqvUvVdSatz9vXNg  
QsNDeGqgsl0SV1Uuqalh37j2d1r8xH7HK3TeppsPNU7MjC2bsqys0puoeMjaBxII+FgX
```

# Version History

The version history displays the changes that have been made to the documentation of this item over time - either automatically when a change has been detected, or manually by users of the system.

 3 versions

Version	Username	Date	Time	Description
 1.02	DEMO2012R2\sysadmin	15 January 2021	14:45	Added Primary Owner.
 1.01	DEMO2012R2\sysadmin	15 January 2021	14:42	Updated by XIA Configuration Client Data
 1.00	DEMO2012R2\sysadmin	15 January 2021	14:42	Item created.