

Zen Pr Solutions

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1 PHARMAX.LOCAL Active Directory Report

The following section provides a summary of the Active Directory Infrastructure configuration for PHARMAX.LOCAL.

1.1 Forest Information.

The Active Directory framework that holds the objects can be viewed at a number of levels. The forest, tree, and domain are the logical divisions in an Active Directory network. At the top of the structure is the forest. A forest is a collection of trees that share a common global catalog, directory schema, logical structure, and directory configuration. The forest represents the security boundary within which users, computers, groups, and other objects are accessible.

Forest Name	pharmax.local		
Forest Functional Level	Windows2016Forest		
Schema Version	ObjectVersion 88, Correspond to Windows Server 2019		
Tombstone Lifetime (days)	180		
Domains	acad.pharmax.local; pharmax.local; uia.local		
Global Catalogs	Server-DC-01V.pharmax.local; acade-dc-		
	01v.acad.pharmax.local; DC-UIA-01V.uia.local		
Domains Count	3		
Global Catalogs Count	3		
Sites Count	5		
Application Partitions	DC=DomainDnsZones,DC=acad,DC=pharmax,DC=local DC=ForestDnsZones,DC=pharmax,DC=local DC=DomainDnsZones,DC=uia,DC=local DC=DomainDnsZones,DC=pharmax,DC=local		
PartitionsContainer	CN=Partitions,CN=Configuration,DC=pharmax,DC=local		
SPN Suffixes	-		
UPN Suffixes	-		

Table 1 - Forest Summary - PHARMAX.LOCAL

1.1.1 Optional Features

Name	Required Forest Mode	Enabled
Privileged Access Management Feature	Windows2016Forest	No
Recycle Bin Feature	Windows2008R2Forest	Yes

Table 2 - Optional Features - PHARMAX.LOCAL

1.1.2 Domain Sites

Site Name	Description	Subnets	Creation Date
ACAD	-	172.23.4.0/24	9/5/2021
Cayey-Branch	Site of Cayey, PR Branch	10.10.0.0/16	9/3/2021
Dead-Site	-	-	1/22/2022
Pharmax-HQ	Site of San Juan, PR HQ	10.9.1.0/24 192.168.0.0/16	6/10/2018

Site Name	Description	Subnets	Creation Date
UIA	-	172.23.7.0/24	5/11/2022

Table 3 - Sites - PHARMAX.LOCAL

Health Check:

Corrective Actions: Ensure Sites have an associated subnet. If subnets are not associated with AD Sites users in the AD Sites might choose a remote domain controller for authentication which in turn might result in excessive use of a remote domain controller.

Best Practices: Ensure Sites have a defined description.

1.1.2.1 Site Subnets

Subnet	Description	Sites	Creation Date
10.10.0.0/16	Cayey-Networks	Cayey-Branch	9/12/2020
10.9.1.0/24	-	Pharmax-HQ	9/14/2021
172.23.4.0/24	-	ACAD	5/11/2022
172.23.7.0/24	-	UIA	5/11/2022
192.168.0.0/16	-	Pharmax-HQ	9/12/2020

Table 4 - Site Subnets - PHARMAX.LOCAL

Health Check:

Best Practices: Ensure that subnets has a defined description.

1.1.2.2 Site Links

Site Link Name	Cost	Replication Frequency	Transport Protocol	Sites
PHARMAX-to-ACAD	100	15 min	IP	ACAD Pharmax-HQ
Pharmax-to-All	100	15 min	IP	UIA Dead-Site ACAD Cayey-Branch Pharmax-HQ

Table 5 - Site Links - PHARMAX.LOCAL

1.2 Active Directory Domain Information

An Active Directory domain is a collection of objects within a Microsoft Active Directory network. An object can be a single user or a group or it can be a hardware component, such as a computer or printer. Each domain holds a database containing object identity information. Active Directory domains can be identified using a DNS name, which can be the same as an organization's public domain name, a sub-domain or an alternate version (which may end in .local).

1.2.1 PHARMAX.LOCAL Root Domain Configuration

The following section provides a summary of the Active Directory Domain Information.

Domain Name	pharmax	
NetBIOS Name PHARMAX		
Domain SID	S-1-5-21-2867495315-1194516362-180967319	
Domain Functional Level	Windows2016Domain	
Domains	-	

Forest	pharmax.local
Parent Domain	-
Replica Directory Servers	Server-DC-01V.pharmax.local cayey-dc-01v.pharmax.local
Child Domains	acad.pharmax.local
Domain Path	pharmax.local/
Computers Container	pharmax.local/Computers
Domain Controllers Container	pharmax.local/Domain Controllers
Systems Container	pharmax.local/System
Users Container	pharmax.local/Users
ReadOnly Replica Directory Servers	-
ms-DS-MachineAccountQuota	10
RID Issued	8100
RID Available	1073733723

Table 6 - Domain Summary - PHARMAX.LOCAL

1.2.1.1 Flexible Single Master Operations (FSMO)

Infrastructure Master Server	Server-DC-01V.pharmax.local
RID Master Server	Server-DC-01V.pharmax.local
PDC Emulator Name	Server-DC-01V.pharmax.local
Domain Naming Master Server	Server-DC-01V.pharmax.local
Schema Master Server	Server-DC-01V.pharmax.local

Table 7 - FSMO Server - pharmax.local

1.2.1.2 Domain and Trusts

Name	acad.pharmax.local
Path	pharmax.local/System/acad.pharmax.local
Source	pharmax
Target	acad.pharmax.local
Direction	BiDirectional
IntraForest	Yes
Selective Authentication	No
SID Filtering Forest Aware	No
SID Filtering Quarantined	No
Trust Type	Uplevel
Uplevel Only	No

Table 8 - Trusts - PHARMAX.LOCAL

Name	uia.local		
Path	pharmax.local/System/uia.local		
Source	pharmax		
Target	uia.local		
Direction	BiDirectional		
IntraForest	Yes		
Selective Authentication	No		

SID Filtering Forest Aware	No
SID Filtering Quarantined	No
Trust Type	Uplevel
Uplevel Only	No

Table 9 - Trusts - PHARMAX.LOCAL

1.2.1.3 Domain Object Count

Computers	211
Servers	67
Domain Controller	2
Global Catalog	1
Users	2889
Privileged Users	43
Groups	564

Table 10 - Object Count - PHARMAX.LOCAL

1.2.1.4 User Accounts in Active Directory

Status	Count	Percentage
Enabled	2885	100%
Disabled	4	0%

Table 11 - User Accounts in Active Directory - PHARMAX.LOCAL

1.2.1.5 Status of Users Accounts

Category	Enabled Count	Enabled %	Disabled Count	Disabled %	Total Count	Total %
Cannot Change Password	13	0	1	0	14	0
Password Never Expires	17	1	3	0	20	1
Must Change Password at Logon	0	0	2	0	2	0
Password Age (> 42 days)	2865	99	1	0	2866	99
SmartcardLogonRequired	1	0	1	0	2	0
SidHistory	1	0	1	0	0	0
Never Logged in	2869	99	4	0	2873	99
Dormant (> 90 days)	2881	100	4	0	2885	100
Password Not Required	2	0	2	0	4	0
Account Expired	1	0	1	0	1	0
Account Lockout	1	0	1	0	0	0

Table 12 - Status of User Accounts - PHARMAX.LOCAL

1.2.1.6 Privileged Group Count

Group Name	Count
Account Operators	1
Administrators	6
Backup Operators	2
Cert Publishers	4
DnsAdmins	3
Domain Admins	5
Enterprise Admins	2
Incoming Forest Trust Builders	2
Key Admins	2
Print Operators	1
Remote Desktop Users	3
Schema Admins	25
Server Operators	3

Table 13 - Privileged Group Count - PHARMAX.LOCAL

Health Check:

Security Best Practice: The Schema Admins group is a privileged group in a forest root domain. Members of the Schema Admins group can make changes to the schema, which is the framework for the Active Directory forest. Changes to the schema are not frequently required. This group only contains the Built-in Administrator account by default. Additional accounts must only be added when changes to the schema are necessary and then must be removed.

1.2.1.7 Computer Accounts in Active Directory

Status	Count	Percentage
Enabled	207	98%
Disabled	4	2%

Table 14 - Computer Accounts in Active Directory - PHARMAX.LOCAL

1.2.1.8 Status of Computer Accounts

Category	Enabled Count	Enabled %	Disabled Count	Disabled %	Total Count	Total %
Dormant (> 90 days)	176	83	4	2	180	85
Password Age (> 30 days)	179	85	4	2	183	87
SidHistory	1	0	1	0	0	0

Table 15 - Status of Computer Accounts - PHARMAX.LOCAL

1.2.1.9 Operating Systems Count

Operating System	Count
CentOS	1
Data Domain OS	1
EMC File Server	1
NetApp Release 9.5P6	1
NetApp Release 9.8	1
NetApp Release 9.8P7	1

Operating System	Count
NetApp Release 9.9.1P1	3
OneFS	1
redhat-linux-gnu	1
unknown	7
Unknown	103
Windows 10 Education	1
Windows 10 Enterprise	1
Windows 10 Enterprise Evaluation	19
Windows Server 2003	1
Windows Server 2016 Standard Evaluation	10
Windows Server 2019 Standard	1
Windows Server 2019 Standard Evaluation	42
Windows Server 2022 Datacenter	3
Windows Server 2022 Datacenter Evaluation	10
Windows Vista	1
Windows XP	1

Table 16 - Operating System Count - PHARMAX.LOCAL

Health Check:

Security Best Practice: Operating systems that are no longer supported for security updates are not maintained or updated for vulnerabilities leaving them open to potential attack. Organizations must transition to a supported operating system to ensure continued support and to increase the organization security posture

1.2.1.10 Default Domain Password Policy

Password Must Meet Complexity Requirements	Yes
Path	pharmax.local/
Lockout Duration	00 days 00 hours 30 minutes 00 seconds
Lockout Threshold	0
Lockout Observation Window	00 days 00 hours 30 minutes 00 seconds
Max Password Age	42 days 00 hours 00 minutes 00 seconds
Min Password Age	01 days 00 hours 00 minutes 00 seconds
Min Password Length	7
Enforce Password History	24
Store Password using Reversible Encryption	No

Table 17 - Default Domain Password Policy - PHARMAX.LOCAL

1.2.1.11 Fined Grained Password Policies

Password Setting Name	Administrators
Domain Name	pharmax.local
Complexity Enabled	Yes
Path	pharmax.local/System/Password Settings Container/Administrators

Lockout Duration	00 days 00 hours 30 minutes 00 seconds
Lockout Threshold	0
Lockout Observation Window	00 days 00 hours 30 minutes 00 seconds
Max Password Age	42 days 00 hours 00 minutes 00 seconds
Min Password Age	05 days 00 hours 00 minutes 00 seconds
Min Password Length	12
Password History Count	90
Reversible Encryption Enabled	No
Precedence	1
Applies To	horizon-ic, dbuser, jocolon

Table 18 - Fined Grained Password Policies - Administrators

Password Setting Name	Test
Domain Name	pharmax.local
Complexity Enabled	Yes
Path	pharmax.local/System/Password Settings Container/Test
Lockout Duration	00 days 00 hours 30 minutes 00 seconds
Lockout Threshold	0
Lockout Observation Window	00 days 00 hours 30 minutes 00 seconds
Max Password Age	42 days 00 hours 00 minutes 00 seconds
Min Password Age	01 days 00 hours 00 minutes 00 seconds
Min Password Length	7
Password History Count	23
Reversible Encryption Enabled	No
Precedence	1
Applies To	vmuserro

Table 19 - Fined Grained Password Policies - Test

1.2.1.12 Group Managed Service Accounts (GMSA)

Name	SQLServer
SamAccountName	SQLServer\$
Created	09/27/2020 14:14:22
Enabled	Yes
DNS Host Name	SQL-Cluster
Host Computers	SQL-CLUSTER-02V, SQL-CLUSTER-01V
Retrieve Managed Password	SQL-CLUSTER-01V, SQL-CLUSTER-02V
Primary Group	Domain Computers
Last Logon Date	09/27/2020 14:41:08
Locked Out	No
Logon Count	3
Password Expired	No
Password Last Set	09/27/2020 14:14:22

Table 20 - Group Managed Service Accounts - SQLServer

Name	adfsgmsa
SamAccountName	adfsgmsa\$

Created	10/07/2020 18:36:16
Enabled	Yes
DNS Host Name	ADFS.pharmax.local
Host Computers	
Retrieve Managed Password	SERVER-ADFS-01V, SERVER-ADFS-02V
Primary Group	Domain Computers
Last Logon Date	10/07/2020 18:36:17
Locked Out	No
Logon Count	40
Password Expired	No
Password Last Set	10/07/2020 18:36:16

Table 21 - Group Managed Service Accounts - adfsgmsa

1.2.1.13 Domain Controller Summary

A domain controller (DC) is a server computer that responds to security authentication requests within a computer network domain. It is a network server that is responsible for allowing host access to domain resources. It authenticates users, stores user account information and enforces security policy for a domain.

DC Name	Domain Name	Site	Global Catalog	Read Only	IP Address
CAYEY-DC-01V	pharmax.local	Cayey-Branch	No	No	10.10.33.1
SERVER-DC-01V	pharmax.local	Pharmax-HQ	Yes	No	192.168.5.1

Table 22 - Domain Controller Summary - PHARMAX.LOCAL

1.2.1.13.1 Hardware Inventory

The following section provides detailed Domain Controller Hardware information for domain PHARMAX.LOCAL.

SERVER-DC-01V

Windows Product Name	Windows Server 2019 Standard
Windows Current Version	6.3
Windows Build Number	10.0.17763
Windows Install Type	Server
AD Domain	pharmax.local
Windows Installation Date	09/08/2020 21:20:17
Time Zone	(UTC-04:00) Georgetown, La Paz, Manaus, San Juan
License Type	Volume:GVLK
Partial Product Key	J464C
Manufacturer	VMware, Inc.
Model	VMware7,1
Serial Number	
Bios Type	Uefi
BIOS Version	

Processor Manufacturer	GenuineIntel
Processor Model	Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz
Number of Processors	
Number of CPU Cores	2
Number of Logical Cores	2
Physical Memory (GB)	4.00 GB

Table 23 - Hardware Inventory - SERVER-DC-01V

CAYEY-DC-01V

Windows Product Name	Windows Server 2019 Standard Evaluation
Windows Current Version	6.3
Windows Build Number	10.0.17763
Windows Install Type	Server
AD Domain	pharmax.local
Windows Installation Date	09/03/2021 20:36:55
Time Zone	(UTC-04:00) Georgetown, La Paz, Manaus, San Juan
License Type	Retail:TB:Eval
Partial Product Key	Y7XRX
Manufacturer	VMware, Inc.
Model	VMware7,1
Serial Number	
Bios Type	Uefi
BIOS Version	
Processor Manufacturer	GenuineIntel
Processor Model	Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz
Number of Processors	
Number of CPU Cores	2
Number of Logical Cores	2
Physical Memory (GB)	4.00 GB

Table 24 - Hardware Inventory - CAYEY-DC-01V

1.2.1.13.2 NTDS Information

DC Name	Database File	Database Size	Log Path	SysVol Path
CAYEY-DC-01V	C:\Windows\NTDS\nt ds.dit	72.00 MB	C:\Windows\NTDS	C:\Windows\SYSVO L\sysvol
SERVER-DC-01V	C:\Windows\NTDS\nt ds.dit	80.00 MB	C:\Windows\NTDS	C:\Windows\SYSVO L\sysvol

Table 25 - NTDS Database File Usage - PHARMAX.LOCAL

1.2.1.13.3 Time Source Information

Name	Time Server	Туре
CAYEY-DC-01V	Domain Hierarchy	DOMHIER

Name	Time Server	Туре
SERVER-DC-01V	192.168.5.254 0.pool.ntp.org 1.pool.ntp.org	MANUAL (NTP)
	2.pool.ntp.org 3.pool.ntp.org	

Table 26 - Time Source Configuration - PHARMAX.LOCAL

1.2.1.13.4 SRV Records Status

Name	A Record	KDC SRV	PDC SRV	GC SRV	DC SRV
CAYEY-DC-01V	OK	OK	Non PDC	Non GC	OK
SERVER-DC-01V	OK	OK	OK	OK	OK

Table 27 - SRV Records Status - PHARMAX.LOCAL

Health Check:

Best Practice: The SRV record is a Domain Name System (DNS) resource record. It's used to identify computers hosting specific services. SRV resource records are used to locate domain controllers for Active Directory.

1.2.1.13.5 Installed Software on DC

The following section provides a summary of additional software running on PHARMAX.LOCAL.

SERVER-DC-01V

Name	Publisher	Install Date
Veeam VSS Hardware Provider	Veeam Software Group GmbH	20220502

Table 28 - Installed Software - SERVER-DC-01V

Health Check:

Best Practices: Do not run other software or services on a Domain Controller.

CAYEY-DC-01V

Name	Publisher	Install Date
7-Zip 21.07 (x64 edition)	Igor Pavlov	20220122

Table 29 - Installed Software - CAYEY-DC-01V

Health Check:

Best Practices: Do not run other software or services on a Domain Controller.

1.2.1.13.6 Roles

The following section provides a summary of the Domain Controller Role & Features information.

SERVER-DC-01V

Name	Parent	InstallState
Active Directory Certificate Services	Role	Active Directory Certificate Services (AD CS) is used to create certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications.
Active Directory Domain Services	Role	Active Directory Domain Services (AD DS) stores information about objects on the network and makes this information available to users

Name	Parent	InstallState
		and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.
DHCP Server	Role	Dynamic Host Configuration Protocol (DHCP) Server enables you to centrally configure, manage, and provide temporary IP addresses and related information for client computers.
DNS Server	Role	Domain Name System (DNS) Server provides name resolution for TCP/IP networks. DNS Server is easier to manage when it is installed on the same server as Active Directory Domain Services. If you select the Active Directory Domain Services role, you can install and configure DNS Server and Active Directory Domain Services to work together.
File and Storage Services	Role	File and Storage Services includes services that are always installed, as well as functionality that you can install to help manage file servers and storage.
Web Server (IIS)	Role	Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.
Windows Server Update Services	Role	Windows Server Update Services allows network administrators to specify the Microsoft updates that should be installed, create separate groups of computers for different sets of updates, and get reports on the compliance levels of the computers and the updates that must be installed.

Table 30 - Roles - SERVER-DC-01V

Health Check:

Best Practices: Domain Controllers should have limited software and agents installed including roles and services. Non-essential code running on Domain Controllers is a risk to the enterprise Active Directory environment. A Domain Controller should only run required software, services and roles critical to essential operation

CAYEY-DC-01V

Name	Parent	InstallState
Active Directory Certificate Services	Role	Active Directory Certificate Services (AD CS) is used to create certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications.
Active Directory Domain Services	Role	Active Directory Domain Services (AD DS) stores information about objects on the network and makes this information available to users and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.
DHCP Server	Role	Dynamic Host Configuration Protocol (DHCP) Server enables you to centrally configure, manage, and provide temporary IP addresses and related information for client computers.
DNS Server	Role	Domain Name System (DNS) Server provides name resolution for TCP/IP networks. DNS Server is easier to manage when it is installed on the same server as Active Directory Domain Services. If you select the Active Directory Domain Services role, you can install and configure DNS Server and Active Directory Domain Services to work together.
File and Storage Services	Role	File and Storage Services includes services that are always installed, as well as functionality that you can install to help manage file servers and storage.

Name	Parent	InstallState
Web Server (IIS)		Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.

Table 31 - Roles - CAYEY-DC-01V

Health Check:

Best Practices: Domain Controllers should have limited software and agents installed including roles and services. Non-essential code running on Domain Controllers is a risk to the enterprise Active Directory environment. A Domain Controller should only run required software, services and roles critical to essential operation

1.2.1.13.7 DC Diagnostic

The following section provides a summary of the Active Directory DC Diagnostic.

SERVER-DC-01V

Test Name	Result
Advertising	passed
CheckSDRefDom	passed
Connectivity	passed
CrossRefValidation	passed
CrossRefValidation	passed
CrossRefValidation	passed
DFSREvent	failed
FrsEvent	passed
Intersite	passed
KccEvent	passed
KnowsOfRoleHolders	passed
LocatorCheck	passed
MachineAccount	passed
NCSecDesc	passed
NetLogons	passed
ObjectsReplicated	passed
Replications	failed
RidManager	passed
Services	passed
SystemLog	failed
SysVolCheck	passed
VerifyReferences	passed

Table 32 - Domain Controller DCDiag - SERVER-DC-01V

CAYEY-DC-01V

Test Name	Result
Advertising	passed
CheckSDRefDom	passed
Connectivity	passed
CrossRefValidation	passed
CrossRefValidation	passed
CrossRefValidation	passed
DFSREvent	failed
FrsEvent	passed
Intersite	passed
KccEvent	failed
KnowsOfRoleHolders	passed
LocatorCheck	passed
MachineAccount	passed
NCSecDesc	passed
NetLogons	passed
ObjectsReplicated	passed
Replications	failed
RidManager	passed
Services	passed
SystemLog	failed
SysVolCheck	passed
VerifyReferences	passed

Table 33 - Domain Controller DCDiag - CAYEY-DC-01V

1.2.1.13.8 Infrastructure Services Status

The following section provides a summary of the Domain Controller Infrastructure services status.

SERVER-DC-01V

Display Name	Short Name	Status
Active Directory Certificate Services	CertSvc	Running
Active Directory Domain Services	NTDS	Running
Active Directory Web Services	ADWS	Running
DFS Replication	DFSR	Running
DHCP Server	DHCPServer	Running
DNS Server	DNS	Running
Intersite Messaging	IsmServ	Running
Kerberos Key Distribution Center	Kdc	Running
NetLogon	Netlogon	Running
Windows Time	W32Time	Running

Table 34 - Infrastructure Services Status - SERVER-DC-01V

CAYEY-DC-01V

Display Name	Short Name	Status
Active Directory Certificate Services	CertSvc	Running
Active Directory Domain Services	NTDS	Running
Active Directory Web Services	ADWS	Running
DFS Replication	DFSR	Running
DHCP Server	DHCPServer	Running
DNS Server	DNS	Running
Intersite Messaging	IsmServ	Running
Kerberos Key Distribution Center	Kdc	Running
NetLogon	Netlogon	Running
Windows Time	W32Time	Running

Table 35 - Infrastructure Services Status - CAYEY-DC-01V

1.2.1.13.9 Sites Replication Connection

The following section provides detailed information about Site Replication Connection.

SERVER-DC-01V

GUID	9dd36d8c-c157-4886-b411-c316fdf19c86
Description	-
Replicate From Directory Server	CAYEY-DC-01V
Replicate To Directory Server	SERVER-DC-01V
Replicated Naming Contexts	DC=DomainDnsZones,DC=pharmax,DC=local DC=ForestDnsZones,DC=pharmax,DC=local CN=Schema,CN=Configuration,DC=pharmax,DC=local CN=Configuration,DC=pharmax,DC=local DC=pharmax,DC=local
Transport Protocol	IP
AutoGenerated	Yes
Enabled	Yes
Created	Tue, 07 Dec 2021 15:52:27 GMT

Table 36 - Site Replication - SERVER-DC-01V

GUID	aabfef5a-f968-4f1e-b02e-9625f6731933
Description	-
Replicate From Directory Server	DC-UIA-01V
Replicate To Directory Server	SERVER-DC-01V
Replicated Naming Contexts	DC=DomainDnsZones,DC=pharmax,DC=local DC=ForestDnsZones,DC=pharmax,DC=local CN=Schema,CN=Configuration,DC=pharmax,DC=local CN=Configuration,DC=pharmax,DC=local DC=pharmax,DC=local
Transport Protocol	IP
AutoGenerated	Yes
Enabled	Yes
Created	Wed, 11 May 2022 17:54:53 GMT

Table 37 - Site Replication - SERVER-DC-01V

GUID	d5a28ae4-ee92-47a4-872e-e4115bc8d1a5
Description	-
Replicate From Directory Server	ACADE-DC-01V
Replicate To Directory Server	SERVER-DC-01V
Replicated Naming Contexts	DC=DomainDnsZones,DC=pharmax,DC=local DC=ForestDnsZones,DC=pharmax,DC=local CN=Schema,CN=Configuration,DC=pharmax,DC=local CN=Configuration,DC=pharmax,DC=local DC=pharmax,DC=local
Transport Protocol	IP
AutoGenerated	Yes
Enabled	Yes
Created	Sun, 05 Sep 2021 16:24:39 GMT

Table 38 - Site Replication - SERVER-DC-01V

CAYEY-DC-01V

GUID	14c5d35b-e285-4bdb-a044-c75e0a22558a
Description	-
Replicate From Directory Server	ACADE-DC-01V
Replicate To Directory Server	CAYEY-DC-01V
Replicated Naming Contexts	DC=DomainDnsZones,DC=pharmax,DC=local DC=ForestDnsZones,DC=pharmax,DC=local CN=Schema,CN=Configuration,DC=pharmax,DC=local CN=Configuration,DC=pharmax,DC=local DC=pharmax,DC=local
Transport Protocol	IP
AutoGenerated	Yes
Enabled	Yes
Created	Wed, 31 Aug 2022 15:03:09 GMT

Table 39 - Site Replication - CAYEY-DC-01V

GUID	25644f18-da4e-4c5a-887e-1b17b61e9d53
Description	-
Replicate From Directory Server	SERVER-DC-01V
Replicate To Directory Server	CAYEY-DC-01V
Replicated Naming Contexts	DC=DomainDnsZones,DC=pharmax,DC=local DC=ForestDnsZones,DC=pharmax,DC=local CN=Schema,CN=Configuration,DC=pharmax,DC=local CN=Configuration,DC=pharmax,DC=local DC=pharmax,DC=local
Transport Protocol	IP
AutoGenerated	Yes
Enabled	Yes
Created	Tue, 07 Dec 2021 15:55:03 GMT

Table 40 - Site Replication - CAYEY-DC-01V

1.2.1.13.10 Sites Replication Status

Destination DSA	Source DSA	Source DSA Site	Last Success Time	Last Failure Status	Last Failure Time	Number of failures
SERVER- DC-01V	CAYEY-DC- 01V	Cayey- Branch	2022-09-04 17:39:45	0	0	0
SERVER- DC-01V	ACADE-DC- 01V	ACAD	2022-09-04 17:39:45	0	0	0
SERVER- DC-01V	CAYEY-DC- 01V	Cayey- Branch	2022-09-04 17:39:45	0	0	0
SERVER- DC-01V	DC-UIA-01V	UIA	2022-09-04 15:51:21	8524	2022-09-04 17:39:52	7
SERVER- DC-01V	ACADE-DC- 01V	ACAD	2022-09-04 17:39:52	0	0	0
SERVER- DC-01V	CAYEY-DC- 01V	Cayey- Branch	2022-09-04 17:39:52	0	0	0
SERVER- DC-01V	DC-UIA-01V	UIA	2022-09-04 15:51:21	8524	2022-09-04 17:39:58	7
SERVER- DC-01V	DC-UIA-01V	UIA	2022-09-04 15:51:21	1256	2022-09-04 17:39:52	7
SERVER- DC-01V	CAYEY-DC- 01V	Cayey- Branch	2022-09-04 17:39:58	0	0	0
SERVER- DC-01V	ACADE-DC- 01V	ACAD	2022-09-04 17:39:58	0	0	0
SERVER- DC-01V	CAYEY-DC- 01V	Cayey- Branch	2022-09-04 17:39:58	0	0	0
SERVER- DC-01V	DC-UIA-01V	UIA	2022-09-04 15:51:21	1256	2022-09-04 17:39:52	6
SERVER- DC-01V	ACADE-DC- 01V	ACAD	2022-09-04 17:39:58	0	0	0
SERVER- DC-01V	DC-UIA-01V	UIA	2022-09-04 15:51:21	1256	2022-09-04 17:39:52	6
SERVER- DC-01V	ACADE-DC- 01V	ACAD	2022-09-04 17:39:58	0	0	0

Table 41 - Site Replication Status - PHARMAX.LOCAL

Health Check:

Best Practices: Replication failure can lead to object inconsistencies and major problems in Active Directory.

1.2.1.13.11 Group Policy Objects Summary

The following section provides a summary of the Group Policy Objects for domain PHARMAX.LOCAL.

GPO Name	GPO Status	Owner
Assign-Applications	All Settings Enabled	PHARMAX\Domain Admins
Certificate AutoEnrollment	User Settings Disabled	PHARMAX\Domain Admins
Dead Policy	All Settings Disabled	PHARMAX\Domain Admins
Default Domain Controllers Policy	All Settings Enabled	PHARMAX\Domain Admins
Default Domain Policy	All Settings Enabled	PHARMAX\Domain Admins

GPO Name	GPO Status	Owner
Horizon-DEM	All Settings Enabled	PHARMAX\Domain Admins
LAPS Configuration	All Settings Enabled	PHARMAX\Domain Admins
Linux-Settings-GPO	All Settings Disabled	PHARMAX\Domain Admins
ProfileUnity	All Settings Enabled	PHARMAX\Domain Admins
SCCM - Restricted Group and General	All Settings Enabled	PHARMAX\Domain Admins
Settings		
SCEP Configuration	All Settings Enabled	PHARMAX\Domain Admins
SET - KMS Server	All Settings Enabled	PHARMAX\Domain Admins
VEEAM_Disable_Firewall	All Settings Enabled	PHARMAX\Domain Admins
VEEAM_Local_Administrators	All Settings Enabled	PHARMAX\Domain Admins
WSUS - Domain Policy	User Settings Disabled	PHARMAX\Domain Admins

Table 42 - GPO - PHARMAX.LOCAL

Health Check:

Best Practices: Ensure 'All Settings Disabled' GPO are removed from Active Directory.

1.2.1.13.11.1 Central Store Repository

Domain	Configured	Central Store Path
PHARMAX.LOCAL	Yes	\\pharmax.local\SYSVOL\pharmax.local\Policies\PolicyDefin
		itions

Table 43 - GPO Central Store - PHARMAX.LOCAL

1.2.1.13.11.2 User Logon/Logoff Script

GPO Name	GPO Status	Туре	Script
Dead Policy	All Settings Disabled	Logoff	%systemdrive%\Program Files\ProfileUnity\Client.NET\LwL.ProfileUnity.Clie nt.Logoff.exe
Horizon-DEM	All Settings Enabled	Logoff	C:\Program Files\Immidio\Flex Profiles\FlexEngine.exe
ProfileUnity	All Settings Enabled	Logoff	%systemdrive%\Program Files\ProfileUnity\Client.NET\LwL.ProfileUnity.Clie nt.Logoff.exe

Table 44 - GPO with Logon/Logoff Script - PHARMAX.LOCAL

1.2.1.13.11.3 Computer Startup/Shutdown Script

GPO Name	GPO Status	Туре	Script
Dead Policy	All Settings Disabled	Startup	\\pharmax.local\netlogon\profileunity\LwL.ProfileUnity.Client.Startup.exe
ProfileUnity	All Settings Enabled	Startup	\\pharmax.local\netlogon\profileunity\LwL.ProfileUnity.Client.Startup.exe

Table 45 - GPO with Startup/Shutdown Script - PHARMAX.LOCAL

1.2.1.13.11.4 Unlinked GPO

GPO Name	Created	Modified	Computer Enabled	User Enabled
Assign-Applications	2021-03-11	2021-03-11	Yes	Yes
Dead Policy	2021-10-05	2022-01-22	No	No

Table 46 - Unlinked GPO - PHARMAX.LOCAL

Health Check:

Corrective Actions: Remove Unused GPO from Active Directory.

1.2.1.13.11.5 Empty GPOs

GPO Name	Created	Modified	Description
Linux-Settings-GPO	2021-05-23	2022-02-04	-

Table 47 - Empty GPO - PHARMAX.LOCAL

Health Check:

Corrective Actions: No User and Computer parameters are set: Remove Unused GPO in Active Directory.

1.2.1.13.11.6 Enforced GPO

GPO Name	Enforced	Order	Target
Linux-Settings-GPO	Yes	1	pharmax.local/LinuxMachines

Table 48 - Enforced GPO - PHARMAX.LOCAL

Health Check:

Corrective Actions: Review use of enforcement and blocked policy inheritance in Active Directory.

1.2.1.13.12 Organizational Units

The following section provides a summary of Active Directory Organizational Unit information.

Name	Path	Linked GPO
.SecFrame.com	pharmax.local/.SecFrame.com	-
Admin	pharmax.local/Admin	-
Staging	pharmax.local/Admin/Staging	-
Tier 0	pharmax.local/Admin/Tier 0	-
T0-Accounts	pharmax.local/Admin/Tier 0/T0-	-
	Accounts	
T0-Devices	pharmax.local/Admin/Tier 0/T0-Devices	-
T0-Permissions	pharmax.local/Admin/Tier 0/T0-	-
	Permissions	
T0-Roles	pharmax.local/Admin/Tier 0/T0-Roles	-
T0-Servers	pharmax.local/Admin/Tier 0/T0-Servers	-
Tier 1	pharmax.local/Admin/Tier 1	-

Name	Path	Linked GPO
T1-Accounts	pharmax.local/Admin/Tier 1/T1-	-
	Accounts	
T1-Devices	pharmax.local/Admin/Tier 1/T1-Devices	-
T1-Permissions	pharmax.local/Admin/Tier 1/T1- Permissions	-
T1-Roles	pharmax.local/Admin/Tier 1/T1-Roles	-
T1-Servers	pharmax.local/Admin/Tier 1/T1-Servers	-
Tier 2	pharmax.local/Admin/Tier 2	-
T2-Accounts	pharmax.local/Admin/Tier 2/T2-	-
	Accounts	
T2-Devices	pharmax.local/Admin/Tier 2/T2-Devices	-
T2-Permissions	pharmax.local/Admin/Tier 2/T2- Permissions	-
T2-Roles	pharmax.local/Admin/Tier 2/T2-Roles	-
T2-Servers	pharmax.local/Admin/Tier 2/T2-Servers	-
Admins PC	pharmax.local/Admins PC	-
Configuration Manager	pharmax.local/Configuration Manager	SCEP Configuration, SCCM - Restricted Group and General Settings
Configuration Manager Computers	pharmax.local/Configuration Manager Computers	LAPS Configuration, SCEP Configuration
Domain Controllers	pharmax.local/Domain Controllers	Default Domain Controllers Policy
EMC NAS servers	pharmax.local/EMC NAS servers	-
Computers	pharmax.local/EMC NAS servers/Computers	-
Fortinet EMS	pharmax.local/Fortinet EMS	-
Grouper-Groups	pharmax.local/Grouper-Groups	-
LinuxMachines	pharmax.local/LinuxMachines	Linux-Settings-GPO
Member Servers	pharmax.local/Member Servers	-
People	pharmax.local/People	-
AWS	pharmax.local/People/AWS	-
AZR	pharmax.local/People/AZR	-
BDE	pharmax.local/People/BDE	-
Deprovisioned	pharmax.local/People/Deprovisioned	-
ESM	pharmax.local/People/ESM	-
FIN	pharmax.local/People/FIN	-
FSR	pharmax.local/People/FSR	-
G00	pharmax.local/People/GOO	-
HRE	pharmax.local/People/HRE	-
ITS	pharmax.local/People/ITS	-
OGC	pharmax.local/People/OGC	-
SEC	pharmax.local/People/SEC	-
TST	pharmax.local/People/TST	-
Unassociated	pharmax.local/People/Unassociated	-
ProfileUnity VDI	pharmax.local/ProfileUnity VDI	VEEAM_Local_Administrators, VEEAM_Disable_Firewall
Computers	pharmax.local/ProfileUnity VDI/Computers	ProfileUnity

Servers pharmax.local/ProfileUnity VDI/Servers - Quarantine pharmax.local/Quarantine - Stage pharmax.local/Stage - AWS pharmax.local/Stage/AWS - Devices pharmax.local/Stage/AWS/Devices - Groups pharmax.local/Stage/AWS/Groups - ServiceAccounts pharmax.local/Stage/AWS/Groups - ServiceAccounts pharmax.local/Stage/AWS/ServiceAcco - unts Test pharmax.local/Stage/AWS/ServiceAcco - Est pharmax.local/Stage/AZR - Devices pharmax.local/Stage/AZR/Devices - Groups pharmax.local/Stage/AZR/Oroups - ServiceAccounts pharmax.local/Stage/AZR/Groups - ServiceAccounts pharmax.local/Stage/AZR/ServiceAcco - unts Test pharmax.local/Stage/AZR/ServiceAcco - unts Test pharmax.local/Stage/BDE - Devices pharmax.local/Stage/BDE/Devices - Groups pharmax.local/Stage/BDE/Groups - ServiceAccounts pharmax.local/Stage/BDE/Groups - ServiceAccounts pharmax.local/Stage/BDE/Fest - ESM pharmax.local/Stage/BDE/Fest - ESM pharmax.local/Stage/ESM/Devices - Groups pharmax.local/Stage/ESM/Devices - Groups pharmax.local/Stage/ESM/Fest - ESM pharmax.local/Stage/ESM/Fest - Fin pharmax.local/Stage/ESM/Fest - Fin pharmax.local/Stage/FIN/Devices - Groups pharmax.local/Stage/FIN/Devices - Fin p	Name	Path	Linked GPO
Quarantine pharmax.local/Quarantine - Stage pharmax.local/Stage	Servers	pharmax.local/ProfileUnity VDI/Servers	-
AWS pharmax.local/Stage/AWS/Devices - Devices pharmax.local/Stage/AWS/Groups - ServiceAccounts pharmax.local/Stage/AWS/Groups - ServiceAccounts pharmax.local/Stage/AWS/Groups - ServiceAccounts pharmax.local/Stage/AWS/Test - AZR pharmax.local/Stage/AZR/Devices - Devices pharmax.local/Stage/AZR/Devices - Groups pharmax.local/Stage/AZR/Devices - Groups pharmax.local/Stage/AZR/Groups - ServiceAccounts pharmax.local/Stage/AZR/ServiceAcco - unts Test pharmax.local/Stage/AZR/Test - BDE pharmax.local/Stage/BDE - Devices pharmax.local/Stage/BDE - Devices pharmax.local/Stage/BDE/Groups - ServiceAccounts pharmax.local/Stage/BDE/ServiceAcco - unts Test pharmax.local/Stage/BDE/ServiceAcco - unts Test pharmax.local/Stage/BDE/Test - ESM pharmax.local/Stage/ESM/Devices - Groups pharmax.local/Stage/ESM/Groups - ServiceAccounts pharmax.local/Stage/ESM/Test - FIN pharmax.local/Stage/ESM/Test -	Quarantine		-
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Groups ServiceAccounts	pharmax.local/Tier 1/FIN/Groups pharmax.local/Tier	-
ServiceAccounts	1/FIN/ServiceAccounts	-
Test	pharmax.local/Tier 1/FIN/Test	-
FSR	pharmax.local/Tier 1/FSR	-
Devices	pharmax.local/Tier 1/FSR/Devices	-
Groups	pharmax.local/Tier 1/FSR/Groups	-
ServiceAccounts	pharmax.local/Tier	-
	1/FSR/ServiceAccounts	
Test	pharmax.local/Tier 1/FSR/Test	-
G00	pharmax.local/Tier 1/GOO	-
Devices	pharmax.local/Tier 1/GOO/Devices	-
Groups	pharmax.local/Tier 1/GOO/Groups	-
ServiceAccounts	pharmax.local/Tier 1/GOO/ServiceAccounts	-
Test	pharmax.local/Tier 1/GOO/Test	-
HRE	pharmax.local/Tier 1/HRE	-
Devices	pharmax.local/Tier 1/HRE/Devices	-
Groups	pharmax.local/Tier 1/HRE/Groups	-
ServiceAccounts	pharmax.local/Tier 1/HRE/ServiceAccounts	-
Test	pharmax.local/Tier 1/HRE/Test	-
ITS	pharmax.local/Tier 1/ITS	_
Devices	pharmax.local/Tier 1/ITS/Devices	-
Groups	pharmax.local/Tier 1/ITS/Groups	-
ServiceAccounts	pharmax.local/Tier 1/ITS/ServiceAccounts	-
Test	pharmax.local/Tier 1/ITS/Test	_
OGC	pharmax.local/Tier 1/OGC	
Devices	pharmax.local/Tier 1/OGC/Devices	
Groups	pharmax.local/Tier 1/OGC/Groups	
ServiceAccounts	pharmax.local/Tier	_
	1/OGC/ServiceAccounts	
Test	pharmax.local/Tier 1/OGC/Test	-
SEC	pharmax.local/Tier 1/SEC	-
Devices	pharmax.local/Tier 1/SEC/Devices	-
Groups	pharmax.local/Tier 1/SEC/Groups	-
ServiceAccounts	pharmax.local/Tier 1/SEC/ServiceAccounts	-
Test	pharmax.local/Tier 1/SEC/Test	-
TST	pharmax.local/Tier 1/TST	-

Name	Path	Linked GPO
Devices	pharmax.local/Tier 1/TST/Devices	-
Groups	pharmax.local/Tier 1/TST/Groups	-
ServiceAccounts	pharmax.local/Tier	-
	1/TST/ServiceAccounts	
Test	pharmax.local/Tier 1/TST/Test	-
Tier 2	pharmax.local/Tier 2	-
AWS	pharmax.local/Tier 2/AWS	-
Devices	pharmax.local/Tier 2/AWS/Devices	-
Groups	pharmax.local/Tier 2/AWS/Groups	-
ServiceAccounts	pharmax.local/Tier 2/AWS/ServiceAccounts	-
Test	pharmax.local/Tier 2/AWS/Test	-
AZR	pharmax.local/Tier 2/AZR	-
Devices	pharmax.local/Tier 2/AZR/Devices	-
Groups	pharmax.local/Tier 2/AZR/Groups	-
ServiceAccounts	pharmax.local/Tier 2/AZR/ServiceAccounts	-
Test	pharmax.local/Tier 2/AZR/Test	_
BDE	pharmax.local/Tier 2/BDE	
Devices	pharmax.local/Tier 2/BDE/Devices	
Groups	pharmax.local/Tier 2/BDE/Groups	
ServiceAccounts	pharmax.local/Tier	
	2/BDE/ServiceAccounts	
Test	pharmax.local/Tier 2/BDE/Test	-
ESM	pharmax.local/Tier 2/ESM	-
Devices	pharmax.local/Tier 2/ESM/Devices	-
Groups	pharmax.local/Tier 2/ESM/Groups	-
ServiceAccounts	pharmax.local/Tier 2/ESM/ServiceAccounts	-
Test	pharmax.local/Tier 2/ESM/Test	-
FIN	pharmax.local/Tier 2/FIN	-
Devices	pharmax.local/Tier 2/FIN/Devices	-
Groups	pharmax.local/Tier 2/FIN/Groups	-
ServiceAccounts	pharmax.local/Tier 2/FIN/ServiceAccounts	-
Test	pharmax.local/Tier 2/FIN/Test	-
FSR	pharmax.local/Tier 2/FSR	-
Devices	pharmax.local/Tier 2/FSR/Devices	-
Groups	pharmax.local/Tier 2/FSR/Groups	-
ServiceAccounts	pharmax.local/Tier	-
	2/FSR/ServiceAccounts	
Test	pharmax.local/Tier 2/FSR/Test	-
G00	pharmax.local/Tier 2/GOO	-
Devices	pharmax.local/Tier 2/GOO/Devices	-
Groups	pharmax.local/Tier 2/GOO/Groups	-
ServiceAccounts	pharmax.local/Tier 2/GOO/ServiceAccounts	-
Test	pharmax.local/Tier 2/GOO/Test	-

Name	Path	Linked GPO
HRE	pharmax.local/Tier 2/HRE	-
Devices	pharmax.local/Tier 2/HRE/Devices	-
Groups	pharmax.local/Tier 2/HRE/Groups	-
ServiceAccounts	pharmax.local/Tier	-
	2/HRE/ServiceAccounts	
Test	pharmax.local/Tier 2/HRE/Test	-
ITS	pharmax.local/Tier 2/ITS	-
Devices	pharmax.local/Tier 2/ITS/Devices	-
Groups	pharmax.local/Tier 2/ITS/Groups	-
ServiceAccounts	pharmax.local/Tier 2/ITS/ServiceAccounts	-
Test	pharmax.local/Tier 2/ITS/Test	-
OGC	pharmax.local/Tier 2/OGC	-
Devices	pharmax.local/Tier 2/OGC/Devices	-
Groups	pharmax.local/Tier 2/OGC/Groups	-
ServiceAccounts	pharmax.local/Tier	-
	2/OGC/ServiceAccounts	
Test	pharmax.local/Tier 2/OGC/Test	-
SEC	pharmax.local/Tier 2/SEC	-
Devices	pharmax.local/Tier 2/SEC/Devices	-
Groups	pharmax.local/Tier 2/SEC/Groups	-
ServiceAccounts	pharmax.local/Tier 2/SEC/ServiceAccounts	-
Test	pharmax.local/Tier 2/SEC/Test	-
TST	pharmax.local/Tier 2/TST	-
Devices	pharmax.local/Tier 2/TST/Devices	-
Groups	pharmax.local/Tier 2/TST/Groups	-
ServiceAccounts	pharmax.local/Tier 2/TST/ServiceAccounts	-
Test	pharmax.local/Tier 2/TST/Test	-
VDI-Computers	pharmax.local/VDI-Computers	Horizon-DEM
Finances	pharmax.local/VDI- Computers/Finances	-
HR	pharmax.local/VDI-Computers/HR	-
Marketing	pharmax.local/VDI- Computers/Marketing	-
Sales	pharmax.local/VDI-Computers/Sales	-
VEEAM Servers	pharmax.local/VEEAM Servers	VEEAM_Disable_Firewall, VEEAM_Local_Administrators
VEEAM WorkStations	pharmax.local/VEEAM WorkStations	VEEAM_Local_Administrators, VEEAM_Disable_Firewall

Table 49 - Organizational Unit - PHARMAX.LOCAL

1.2.1.13.12.1 GPO Blocked Inheritance

OU Name	Container Type	Inheritance Blocked	Path
fortinet ems	OU	Yes	pharmax.local/Fortinet EMS
linuxmachines	OU	Yes	pharmax.local/LinuxMachines

Table 50 - Blocked Inheritance GPO - PHARMAX.LOCAL

Health Check:

Corrective Actions: Review use of enforcement and blocked policy inheritance in Active Directory.

1.2.2 ACAD.PHARMAX.LOCAL Child Domain Configuration

The following section provides a summary of the Active Directory Domain Information.

Domain Name	acad
NetBIOS Name	ACAD
Domain SID	S-1-5-21-370360276-377477351-3184454278
Domain Functional Level	Windows2016Domain
Domains	-
Forest	pharmax.local
Parent Domain	pharmax.local
Replica Directory Servers	acade-dc-01v.acad.pharmax.local
Child Domains	-
Domain Path	acad.pharmax.local/
Computers Container	acad.pharmax.local/Computers
Domain Controllers Container	acad.pharmax.local/Domain Controllers
Systems Container	acad.pharmax.local/System
Users Container	acad.pharmax.local/Users
ReadOnly Replica Directory Servers	-
ms-DS-MachineAccountQuota	10
RID Issued	1600
RID Available	1073740223

Table 51 - Domain Summary - ACAD.PHARMAX.LOCAL

1.2.2.1 Flexible Single Master Operations (FSMO)

Infrastructure Master Server	acade-dc-01v.acad.pharmax.local	
RID Master Server	acade-dc-01v.acad.pharmax.local	
PDC Emulator Name	acade-dc-01v.acad.pharmax.local	
Domain Naming Master Server	Server-DC-01V.pharmax.local	
Schema Master Server	Server-DC-01V.pharmax.local	

Table 52 - FSMO Server - acad.pharmax.local

1.2.2.2 Domain and Trusts

Name	pharmax.local
Path	acad.pharmax.local/System/pharmax.local
Source	acad

Target	pharmax.local
Direction	BiDirectional
IntraForest	Yes
Selective Authentication	No
SID Filtering Forest Aware	No
SID Filtering Quarantined	No
Trust Type	Uplevel
Uplevel Only	No

Table 53 - Trusts - ACAD.PHARMAX.LOCAL

1.2.2.3 Domain Object Count

Computers	2
Servers	2
Domain Controller	1
Global Catalog	1
Users	4
Privileged Users	2
Groups	46

Table 54 - Object Count - ACAD.PHARMAX.LOCAL

1.2.2.4 User Accounts in Active Directory

Status	Count	Percentage
Enabled	2	50%
Disabled	2	50%

Table 55 - User Accounts in Active Directory - ACAD.PHARMAX.LOCAL

1.2.2.5 Status of Users Accounts

Category	Enabled Count	Enabled %	Disabled Count	Disabled %	Total Count	Total %
Cannot Change Password	13	325	1	25	14	350
Password Never Expires	1	25	1	25	1	25
Must Change Password at Logon	1	25	1	25	1	25
Password Age (> 42 days)	1	25	1	25	2	50
SmartcardLogonRequired	1	25	1	25	0	0
SidHistory	1	25	1	25	0	0
Never Logged in	1	25	2	50	3	75
Dormant (> 90 days)	2	50	2	50	4	100
Password Not Required	1	25	1	25	2	50
Account Expired	1	25	1	25	0	0
Account Lockout	1	25	1	25	0	0

Table 56 - Status of User Accounts - ACAD.PHARMAX.LOCAL

1.2.2.6 Privileged Group Count

Group Name	Count
Account Operators	0
Administrators	6
Backup Operators	1
Cert Publishers	1
DnsAdmins	0
Domain Admins	1
Key Admins	0
Print Operators	0
Remote Desktop Users	0
Server Operators	0

Table 57 - Privileged Group Count - ACAD.PHARMAX.LOCAL

1.2.2.7 Computer Accounts in Active Directory

Status	Count	Percentage
Enabled	2	100%
Disabled	0	0%

Table 58 - Computer Accounts in Active Directory - ACAD.PHARMAX.LOCAL

1.2.2.8 Status of Computer Accounts

Category	Enabled Count	Enabled %	Disabled Count	Disabled %	Total Count	Total %
Dormant (> 90 days)	1	50	1	50	0	0
Password Age (> 30 days)	1	50	1	50	0	0
SidHistory	1	50	1	50	0	0

Table 59 - Status of Computer Accounts - ACAD.PHARMAX.LOCAL

1.2.2.9 Operating Systems Count

Operating System	Count
Windows Server 2019 Standard	1
Windows Server 2019 Standard Evaluation	1

Table 60 - Operating System Count - ACAD.PHARMAX.LOCAL

1.2.2.10 Default Domain Password Policy

Password Must Meet Complexity Requirements	Yes
Path	acad.pharmax.local/
Lockout Duration	00 days 00 hours 30 minutes 00 seconds
Lockout Threshold	0

Lockout Observation Window	00 days 00 hours 30 minutes 00 seconds
Max Password Age	42 days 00 hours 00 minutes 00 seconds
Min Password Age	01 days 00 hours 00 minutes 00 seconds
Min Password Length	7
Enforce Password History	24
Store Password using Reversible	No
Encryption	

Table 61 - Default Domain Password Policy - ACAD.PHARMAX.LOCAL

1.2.2.11 Fined Grained Password Policies

Password Setting Name	ACADTest
Domain Name	acad.pharmax.local
Complexity Enabled	Yes
Path	acad.pharmax.local/System/Password Settings Container/ACADTest
Lockout Duration	00 days 00 hours 30 minutes 00 seconds
Lockout Threshold	5
Lockout Observation Window	00 days 00 hours 30 minutes 00 seconds
Max Password Age	42 days 00 hours 00 minutes 00 seconds
Min Password Age	01 days 00 hours 00 minutes 00 seconds
Min Password Length	14
Password History Count	24
Reversible Encryption Enabled	No
Precedence	1
Applies To	SCCM-GMSA

Table 62 - Fined Grained Password Policies - ACADTest

1.2.2.12 Group Managed Service Accounts (GMSA)

Name	SCCMMSA
SamAccountName	SCCMMSA\$
Created	09/11/2021 21:01:33
Enabled	Yes
DNS Host Name	acad.pharmax.local
Host Computers	
Retrieve Managed Password	SCCM-GMSA
Primary Group	Domain Computers
Last Logon Date	
Locked Out	No
Logon Count	0
Password Expired	No
Password Last Set	09/11/2021 21:01:33

Table 63 - Group Managed Service Accounts - SCCMMSA

1.2.2.13 Domain Controller Summary

A domain controller (DC) is a server computer that responds to security authentication requests within a computer network domain. It is a network server that is responsible for allowing host access to domain resources. It authenticates users, stores user account information and enforces security policy for a domain.

DC Name	Domain Name	Site	Global Catalog		IP Address
ACADE-DC-01V	acad.pharmax.local	ACAD	Yes	No	172.23.4.1

Table 64 - Domain Controller Summary - ACAD.PHARMAX.LOCAL

1.2.2.13.1 Hardware Inventory

The following section provides detailed Domain Controller Hardware information for domain ACAD.PHARMAX.LOCAL.

ACADE-DC-01V

Windows Product Name	Windows Server 2019 Standard Evaluation		
Windows Current Version	6.3		
Windows Build Number	10.0.17763		
Windows Install Type	Server		
AD Domain	acad.pharmax.local		
Windows Installation Date	09/05/2021 10:35:50		
Time Zone	(UTC-04:00) Georgetown, La Paz, Manaus, San Juan		
License Type	Retail:TB:Eval		
Partial Product Key	Y7XRX		
Manufacturer	VMware, Inc.		
Model	VMware7,1		
Serial Number			
Bios Type	Uefi		
BIOS Version			
Processor Manufacturer	GenuineIntel		
Processor Model	Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz		
Number of Processors			
Number of CPU Cores	2		
Number of Logical Cores	2		
Physical Memory (GB)	4.00 GB		

Table 65 - Hardware Inventory - ACADE-DC-01V

1.2.2.13.2 NTDS Information

DC Name	Database File	Database Size	Log Path	SysVol Path
ACADE-DC-01V	C:\Windows\NTDS\nt ds.dit	64.00 MB	C:\Windows\NTDS	C:\Windows\SYSVO L\sysvol

Table 66 - NTDS Database File Usage - ACAD.PHARMAX.LOCAL

1.2.2.13.3 Time Source Information

Name	Time Server	Туре
ACADE-DC-01V	Domain Hierarchy	DOMHIER

Table 67 - Time Source Configuration - ACAD.PHARMAX.LOCAL

1.2.2.13.4 SRV Records Status

Name	A Record	KDC SRV	PDC SRV	GC SRV	DC SRV
ACADE-DC-01V	OK	OK	OK	OK	OK

Table 68 - SRV Records Status - ACAD PHARMAX LOCAL

Health Check:

Best Practice: The SRV record is a Domain Name System (DNS) resource record. It's used to identify computers hosting specific services. SRV resource records are used to locate domain controllers for Active Directory.

1.2.2.13.5 Installed Software on DC

The following section provides a summary of additional software running on ACAD.PHARMAX.LOCAL.

1.2.2.13.6 Roles

The following section provides a summary of the Domain Controller Role & Features information.

ACADE-DC-01V

Name	Parent	InstallState
Active Directory Certificate Services	Role	Active Directory Certificate Services (AD CS) is used to create certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications.
Active Directory Domain Services	Role	Active Directory Domain Services (AD DS) stores information about objects on the network and makes this information available to users and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.
DHCP Server	Role	Dynamic Host Configuration Protocol (DHCP) Server enables you to centrally configure, manage, and provide temporary IP addresses and related information for client computers.
DNS Server	Role	Domain Name System (DNS) Server provides name resolution for TCP/IP networks. DNS Server is easier to manage when it is installed on the same server as Active Directory Domain Services. If you select the Active Directory Domain Services role, you can install and configure DNS Server and Active Directory Domain Services to work together.
File and Storage Services	Role	File and Storage Services includes services that are always installed, as well as functionality that you can install to help manage file servers and storage.

Name	Parent	InstallState
Web Server (IIS)	Role	Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.

Table 69 - Roles - ACADE-DC-01V

Health Check:

Best Practices: Domain Controllers should have limited software and agents installed including roles and services. Non-essential code running on Domain Controllers is a risk to the enterprise Active Directory environment. A Domain Controller should only run required software, services and roles critical to essential operation

1.2.2.13.7 DC Diagnostic

The following section provides a summary of the Active Directory DC Diagnostic.

ACADE-DC-01V

Test Name	Result
Advertising	failed
CheckSDRefDom	passed
Connectivity	passed
CrossRefValidation	passed
CrossRefValidation	passed
CrossRefValidation	passed
DFSREvent	passed
FrsEvent	passed
Intersite	passed
KccEvent	failed
KnowsOfRoleHolders	passed
LocatorCheck	failed
MachineAccount	passed
NCSecDesc	failed
NetLogons	failed
ObjectsReplicated	passed
Replications	failed
RidManager	passed
Services	passed
SystemLog	failed
SysVolCheck	failed
VerifyReferences	passed

Table 70 - Domain Controller DCDiag - ACADE-DC-01V

1.2.2.13.8 Infrastructure Services Status

The following section provides a summary of the Domain Controller Infrastructure services status.

ACADE-DC-01V

Display Name	Short Name	Status
Active Directory Certificate Services	CertSvc	Running
Active Directory Domain Services	NTDS	Running
Active Directory Web Services	ADWS	Running
DFS Replication	DFSR	Running
DHCP Server	DHCPServer	Running
DNS Server	DNS	Running
Intersite Messaging	IsmServ	Running
Kerberos Key Distribution Center	Kdc	Running
NetLogon	Netlogon	Running
Windows Time	W32Time	Running

Table 71 - Infrastructure Services Status - ACADE-DC-01V

1.2.2.13.9 Sites Replication Connection

The following section provides detailed information about Site Replication Connection.

ACADE-DC-01V

GUID	739a49db-275b-4d09-81c8-ab9e5f393977
Description	-
Replicate From Directory Server	SERVER-DC-01V
Replicate To Directory Server	ACADE-DC-01V
Replicated Naming Contexts	DC=DomainDnsZones,DC=acad,DC=pharmax,DC=local DC=acad,DC=pharmax,DC=local DC=ForestDnsZones,DC=pharmax,DC=local CN=Schema,CN=Configuration,DC=pharmax,DC=local CN=Configuration,DC=pharmax,DC=local
Transport Protocol	IP
AutoGenerated	Yes
Enabled	Yes
Created	Sun, 05 Sep 2021 16:26:31 GMT

Table 72 - Site Replication - ACADE-DC-01V

GUID	ad51f64a-c0be-46ff-9cc8-af3fb05bfe7c
Description	-
Replicate From Directory Server	DC-UIA-01V
Replicate To Directory Server	ACADE-DC-01V
Replicated Naming Contexts	DC=DomainDnsZones,DC=acad,DC=pharmax,DC=local DC=acad,DC=pharmax,DC=local DC=ForestDnsZones,DC=pharmax,DC=local CN=Schema,CN=Configuration,DC=pharmax,DC=local CN=Configuration,DC=pharmax,DC=local
Transport Protocol	IP
AutoGenerated	Yes

Enabled	Yes
Created	Thu, 01 Sep 2022 11:32:16 GMT

Table 73 - Site Replication - ACADE-DC-01V

GUID	056708d1-2630-487d-a25e-a9b837f860e6
Description	-
Replicate From Directory Server	CAYEY-DC-01V
Replicate To Directory Server	ACADE-DC-01V
Replicated Naming Contexts	DC=DomainDnsZones,DC=acad,DC=pharmax,DC=local DC=acad,DC=pharmax,DC=local DC=ForestDnsZones,DC=pharmax,DC=local CN=Schema,CN=Configuration,DC=pharmax,DC=local CN=Configuration,DC=pharmax,DC=local
Transport Protocol	IP
AutoGenerated	Yes
Enabled	Yes
Created	Thu, 01 Sep 2022 11:32:16 GMT

Table 74 - Site Replication - ACADE-DC-01V

1.2.2.13.10 Sites Replication Status

Destination DSA	Source DSA	Source DSA Site	Last Success Time	Last Failure Status	Last Failure Time	Number of failures
ACADE-DC- 01V	SERVER- DC-01V	Pharmax-HQ	2022-08-31 19:59:38	5	2022-09-04 17:46:03	92
ACADE-DC- 01V	SERVER- DC-01V	Pharmax-HQ	2022-08-31 19:59:38	5	2022-09-04 17:46:03	92
ACADE-DC- 01V	SERVER- DC-01V	Pharmax-HQ	2022-08-31 19:59:38	1256	2022-09-04 17:46:03	92
ACADE-DC- 01V	SERVER- DC-01V	Pharmax-HQ	2022-08-31 19:59:38	1256	2022-09-04 17:46:03	92
ACADE-DC- 01V	SERVER- DC-01V	Pharmax-HQ	2022-08-31 19:59:38	1256	2022-09-04 17:46:03	92

Table 75 - Site Replication Status - ACAD.PHARMAX.LOCAL

Health Check:

Best Practices: Replication failure can lead to object inconsistencies and major problems in Active Directory.

1.2.2.13.11 Group Policy Objects Summary

The following section provides a summary of the Group Policy Objects for domain ACAD.PHARMAX.LOCAL.

GPO Name	GPO Status	Owner	
ACAD Certificate AutoEnrollment	All Settings Enabled	PHARMAX\Enterprise	
		Admins	
Default Domain Controllers Policy	All Settings Enabled	ACAD\Domain Admins	
Default Domain Policy	All Settings Enabled	ACAD\Domain Admins	

GPO Name	GPO Status	Owner
Empty Policy ACAD	All Settings Enabled	PHARMAX\Enterprise Admins
Logon Script	All Settings Enabled	PHARMAX\Enterprise Admins
Unlinked Policy ACAD	All Settings Disabled	PHARMAX\Enterprise Admins

Table 76 - GPO - ACAD.PHARMAX.LOCAL

Health Check:

Best Practices: Ensure 'All Settings Disabled' GPO are removed from Active Directory.

1.2.2.13.11.1 Central Store Repository

Domain	Configured	Central Store Path
ACAD.PHARMAX.LOC	No	\\acad.pharmax.local\SYSVOL\acad.pharmax.local\Policies\
AL		PolicyDefinitions

Table 77 - GPO Central Store - ACAD.PHARMAX.LOCAL

Health Check:

Best Practices: Ensure Central Store is deployed to centralized GPO repository.

1.2.2.13.11.2 User Logon/Logoff Script

GPO Name	GPO Status	Туре	Script
Logon Script	All Settings Enabled	Logon	\\acad.pharmax.local\NETLOGON\enroll.exe

Table 78 - GPO with Logon/Logoff Script - ACAD.PHARMAX.LOCAL

1.2.2.13.11.3 Unlinked GPO

GPO Name	Created	Modified	Computer Enabled	User Enabled
Logon Script	2021-10-07	2021-10-07	Yes	Yes
Unlinked Policy ACAD	2021-10-06	2021-10-06	No	No

Table 79 - Unlinked GPO - ACAD.PHARMAX.LOCAL

Health Check:

Corrective Actions: Remove Unused GPO from Active Directory.

1.2.2.13.11.4 Empty GPOs

GPO Name	Created	Modified	Description
Empty Policy ACAD	2021-10-06	2021-10-06	-

Table 80 - Empty GPO - ACAD.PHARMAX.LOCAL

Health Check:

Corrective Actions: No User and Computer parameters are set: Remove Unused GPO in Active Directory.

1.2.2.13.11.5 Enforced GPO

GPO Name	Enforced	Order	Target
Empty Policy ACAD	Yes	1	acad.pharmax.local/Acad Computers/SCCM Computers

Table 81 - Enforced GPO - ACAD, PHARMAX, LOCAL

Health Check:

Corrective Actions: Review use of enforcement and blocked policy inheritance in Active Directory.

1.2.2.13.12 Organizational Units

The following section provides a summary of Active Directory Organizational Unit information.

Name	Path	Linked GPO
Acad Computers	acad.pharmax.local/Acad Computers	-
SCCM Computers	acad.pharmax.local/Acad Computers/SCCM Computers	Empty Policy ACAD
Domain Controllers	acad.pharmax.local/Domain Controllers	Default Domain Controllers Policy
Member Servers	acad.pharmax.local/Member Servers	-

Table 82 - Organizational Unit - ACAD.PHARMAX.LOCAL

1.2.2.13.12.1 GPO Blocked Inheritance

OU Name	Container Type	Inheritance Blocked	Path
sccm computers	OU	Yes	acad.pharmax.local/Acad Computers/SCCM Computers

Table 83 - Blocked Inheritance GPO - ACAD.PHARMAX.LOCAL

Health Check:

Corrective Actions: Review use of enforcement and blocked policy inheritance in Active Directory.

1.2.3 UIA.LOCAL Child Domain Configuration

The following section provides a summary of the Active Directory Domain Information.

Domain Name	uia
NetBIOS Name	UIA
Domain SID	S-1-5-21-658426745-1048856031-3787862735
Domain Functional Level	Windows2016Domain
Domains	-
Forest	pharmax.local
Parent Domain	-

Replica Directory Servers	DC-UIA-01V.uia.local
Child Domains	-
Domain Path	uia.local/
Computers Container	uia.local/Computers
Domain Controllers Container	uia.local/Domain Controllers
Systems Container	uia.local/System
Users Container	uia.local/Users
ReadOnly Replica Directory Servers	-
ms-DS-MachineAccountQuota	10
RID Issued	4600
RID Available	1073737223

Table 84 - Domain Summary - UIA.LOCAL

1.2.3.1 Flexible Single Master Operations (FSMO)

Infrastructure Master Server	DC-UIA-01V.uia.local
RID Master Server	DC-UIA-01V.uia.local
PDC Emulator Name	DC-UIA-01V.uia.local
Domain Naming Master Server	Server-DC-01V.pharmax.local
Schema Master Server	Server-DC-01V.pharmax.local

Table 85 - FSMO Server - uia.local

1.2.3.2 Domain and Trusts

Name	pharmax.local
Path	uia.local/System/pharmax.local
Source	uia
Target	pharmax.local
Direction	BiDirectional
IntraForest	Yes
Selective Authentication	No
SID Filtering Forest Aware	No
SID Filtering Quarantined	No
Trust Type	Uplevel
Uplevel Only	No

Table 86 - Trusts - UIA.LOCAL

1.2.3.3 Domain Object Count

Computers	100
Servers	1
Domain Controller	1
Global Catalog	1
Users	2494
Privileged Users	25

Groups 543

Table 87 - Object Count - UIA.LOCAL

1.2.3.4 User Accounts in Active Directory

Status	Count	Percentage
Enabled	2492	100%
Disabled	2	0%

Table 88 - User Accounts in Active Directory - UIA.LOCAL

1.2.3.5 Status of Users Accounts

Category	Enabled Count	Enabled %	Disabled Count	Disabled %	Total Count	Total %
Cannot Change Password	13	1	1	0	14	1
Password Never Expires	1	0	1	0	2	0
Must Change Password at Logon	1	0	1	0	2	0
Password Age (> 42 days)	2490	100	1	0	2491	100
SmartcardLogonRequired	1	0	1	0	0	0
SidHistory	1	0	1	0	0	0
Never Logged in	2491	100	2	0	2493	100
Dormant (> 90 days)	2492	100	2	0	2494	100
Password Not Required	1	0	1	0	2	0
Account Expired	1	0	1	0	0	0
Account Lockout	1	0	1	0	0	0

Table 89 - Status of User Accounts - UIA.LOCAL

1.2.3.6 Privileged Group Count

Group Name	Count	
Account Operators	1	
Administrators	10	
Backup Operators	2	
Cert Publishers	1	
DnsAdmins	3	
Domain Admins	6	
Key Admins	5	
Print Operators	3	
Remote Desktop Users	2	
Server Operators	2	

Table 90 - Privileged Group Count - UIA.LOCAL

1.2.3.7 Computer Accounts in Active Directory

Status	Count	Percentage
Enabled	100	100%
Disabled	0	0%

Table 91 - Computer Accounts in Active Directory - UIA.LOCAL

1.2.3.8 Status of Computer Accounts

Category	Enabled Count	Enabled %	Disabled Count	Disabled %	Total Count	Total %
Dormant (> 90 days)	99	99	0	0	99	99
Password Age (> 30 days)	99	99	0	0	99	99
SidHistory	1	1	1	1	0	0

Table 92 - Status of Computer Accounts - UIA.LOCAL

1.2.3.9 Operating Systems Count

Operating System	Count
Unknown	99
Windows Server 2022 Datacenter Evaluation	1

Table 93 - Operating System Count - UIA.LOCAL

1.2.3.10 Default Domain Password Policy

Password Must Meet Complexity Requirements	Yes
Path	uia.local/
Lockout Duration	00 days 00 hours 30 minutes 00 seconds
Lockout Threshold	0
Lockout Observation Window	00 days 00 hours 30 minutes 00 seconds
Max Password Age	42 days 00 hours 00 minutes 00 seconds
Min Password Age	01 days 00 hours 00 minutes 00 seconds
Min Password Length	7
Enforce Password History	24
Store Password using Reversible Encryption	No

Table 94 - Default Domain Password Policy - UIA.LOCAL

1.2.3.11 Domain Controller Summary

A domain controller (DC) is a server computer that responds to security authentication requests within a computer network domain. It is a network server that is responsible for allowing host access to domain resources. It authenticates users, stores user account information and enforces security policy for a domain.

DC Name	Domain Name	Site	Global Catalog	Read Only	IP Address
DC-UIA-01V	uia.local	UIA	Yes	No	172.23.7.1

Table 95 - Domain Controller Summary - UIA.LOCAL

1.2.3.11.1 Hardware Inventory

The following section provides detailed Domain Controller Hardware information for domain UIA.LOCAL.

DC-UIA-01V

Windows Product Name	Windows Server 2022 Datacenter Evaluation
Windows Current Version	6.3
Windows Build Number	10.0.20348
Windows Install Type	Server
AD Domain	uia.local
Windows Installation Date	01/26/2022 20:44:54
Time Zone	(UTC-04:00) Georgetown, La Paz, Manaus, San Juan
License Type	Retail:TB:Eval
Partial Product Key	37CYR
Manufacturer	VMware, Inc.
Model	VMware7,1
Serial Number	
Bios Type	Uefi
BIOS Version	
Processor Manufacturer	GenuineIntel
Processor Model	Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz
Number of Processors	
Number of CPU Cores	2
Number of Logical Cores	2
Physical Memory (GB)	4.00 GB

Table 96 - Hardware Inventory - DC-UIA-01V

1.2.3.11.2 NTDS Information

DC Name	Database File	Database Size	Log Path	SysVol Path
	C:\Windows\NTDS\nt ds.dit	80.00 MB	C:\Windows\NTDS	C:\Windows\SYSVO L\sysvol

Table 97 - NTDS Database File Usage - UIA.LOCAL

1.2.3.11.3 Time Source Information

Name	Time Server	Туре
DC-UIA-01V	Domain Hierarchy	DOMHIER

Table 98 - Time Source Configuration - UIA.LOCAL

1.2.3.11.4 SRV Records Status

Name	A Record	KDC SRV	PDC SRV	GC SRV	DC SRV
DC-UIA-01V	OK	OK	OK	OK	OK

Table 99 - SRV Records Status - UIA.LOCAL

Health Check:

Best Practice: The SRV record is a Domain Name System (DNS) resource record. It's used to identify computers hosting specific services. SRV resource records are used to locate domain controllers for Active Directory.

1.2.3.11.5 Installed Software on DC

The following section provides a summary of additional software running on UIA.LOCAL.

1.2.3.11.6 Roles

The following section provides a summary of the Domain Controller Role & Features information.

DC-UIA-01V

Name	Parent	InstallState
Active Directory Domain Services	Role	Active Directory Domain Services (AD DS) stores information about objects on the network and makes this information available to users and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.
DHCP Server	Role	Dynamic Host Configuration Protocol (DHCP) Server enables you to centrally configure, manage, and provide temporary IP addresses and related information for client computers.
DNS Server	Role	Domain Name System (DNS) Server provides name resolution for TCP/IP networks. DNS Server is easier to manage when it is installed on the same server as Active Directory Domain Services. If you select the Active Directory Domain Services role, you can install and configure DNS Server and Active Directory Domain Services to work together.
File and Storage Services	Role	File and Storage Services includes services that are always installed, as well as functionality that you can install to help manage file servers and storage.

Table 100 - Roles - DC-UIA-01V

Health Check:

Best Practices: Domain Controllers should have limited software and agents installed including roles and services. Non-essential code running on Domain Controllers is a risk to the enterprise Active Directory environment. A Domain Controller should only run required software, services and roles critical to essential operation

1.2.3.11.7 DC Diagnostic

The following section provides a summary of the Active Directory DC Diagnostic.

DC-UIA-01V

Test Name	Result
Advertising	failed
CheckSDRefDom	passed
Connectivity	passed
CrossRefValidation	passed
CrossRefValidation	passed
CrossRefValidation	passed
DFSREvent	failed
FrsEvent	passed
Intersite	passed
KccEvent	failed
KnowsOfRoleHolders	passed
LocatorCheck	failed
MachineAccount	passed
NCSecDesc	failed
NetLogons	failed
ObjectsReplicated	passed
Replications	failed
RidManager	passed
Services	passed
SystemLog	failed
SysVolCheck	failed
VerifyReferences	passed

Table 101 - Domain Controller DCDiag - DC-UIA-01V

1.2.3.11.8 Infrastructure Services Status

The following section provides a summary of the Domain Controller Infrastructure services status.

DC-UIA-01V

Display Name	Short Name	Status
Active Directory Domain Services	NTDS	Running
Active Directory Web Services	ADWS	Running
DFS Replication	DFSR	Running
DHCP Server	DHCPServer	Running
DNS Server	DNS	Running
Intersite Messaging	IsmServ	Running

Display Name	Short Name	Status
Kerberos Key Distribution Center	Kdc	Running
NetLogon	Netlogon	Running
Windows Time	W32Time	Running

Table 102 - Infrastructure Services Status - DC-UIA-01V

1.2.3.11.9 Sites Replication Connection

The following section provides detailed information about Site Replication Connection.

DC-UIA-01V

GUID	f1926927-cf11-4b5c-a070-3a1151f7c1e2
Description	-
Replicate From Directory Server	CAYEY-DC-01V
Replicate To Directory Server	DC-UIA-01V
Replicated Naming Contexts	DC=DomainDnsZones,DC=uia,DC=local DC=uia,DC=local DC=ForestDnsZones,DC=pharmax,DC=local CN=Schema,CN=Configuration,DC=pharmax,DC=local CN=Configuration,DC=pharmax,DC=local
Transport Protocol	IP
AutoGenerated	Yes
Enabled	Yes
Created	Thu, 01 Sep 2022 12:01:59 GMT

Table 103 - Site Replication - DC-UIA-01V

GUID	26fe30d7-5edb-4acd-8098-f0695eac1e26
Description	-
Replicate From Directory Server	ACADE-DC-01V
Replicate To Directory Server	DC-UIA-01V
Replicated Naming Contexts	DC=DomainDnsZones,DC=uia,DC=local DC=uia,DC=local DC=ForestDnsZones,DC=pharmax,DC=local CN=Schema,CN=Configuration,DC=pharmax,DC=local CN=Configuration,DC=pharmax,DC=local
Transport Protocol	IP
AutoGenerated	Yes
Enabled	Yes
Created	Wed, 11 May 2022 17:57:17 GMT

Table 104 - Site Replication - DC-UIA-01V

GUID	c73a836c-1dbc-43de-a918-ae91f8ea29c6
Description	-
Replicate From Directory Server	SERVER-DC-01V
Replicate To Directory Server	DC-UIA-01V
Replicated Naming Contexts	DC=DomainDnsZones,DC=uia,DC=local DC=uia,DC=local DC=ForestDnsZones,DC=pharmax,DC=local CN=Schema,CN=Configuration,DC=pharmax,DC=local CN=Configuration,DC=pharmax,DC=local
Transport Protocol	IP

AutoGenerated	Yes
Enabled	Yes
Created	Wed, 11 May 2022 17:57:17 GMT

Table 105 - Site Replication - DC-UIA-01V

1.2.3.11.10 Sites Replication Status

Destination DSA	Source DSA	Source DSA Site	Last Success Time	Last Failure Status	Last Failure Time	Number of failures
DC-UIA-01V	SERVER- DC-01V	Pharmax-HQ	2022-08-31 21:14:31	5	2022-09-04 17:46:00	89
DC-UIA-01V	ACADE-DC- 01V	ACAD	2022-08-31 21:14:31	5	2022-09-04 17:46:00	89
DC-UIA-01V	SERVER- DC-01V	Pharmax-HQ	2022-08-31 21:14:31	5	2022-09-04 17:46:00	89
DC-UIA-01V	ACADE-DC- 01V	ACAD	2022-08-31 21:14:31	5	2022-09-04 17:46:00	89
DC-UIA-01V	SERVER- DC-01V	Pharmax-HQ	2022-08-31 21:14:31	1256	2022-09-04 17:46:00	89
DC-UIA-01V	ACADE-DC- 01V	ACAD	2022-08-31 21:14:31	1256	2022-09-04 17:46:00	89
DC-UIA-01V	SERVER- DC-01V	Pharmax-HQ	2022-08-31 21:14:31	1256	2022-09-04 17:46:00	89
DC-UIA-01V	ACADE-DC- 01V	ACAD	2022-08-31 21:14:31	1256	2022-09-04 17:46:00	89
DC-UIA-01V	SERVER- DC-01V	Pharmax-HQ	2022-08-31 21:14:31	1256	2022-09-04 17:46:00	89
DC-UIA-01V	ACADE-DC- 01V	ACAD	2022-08-31 21:14:31	1256	2022-09-04 17:46:00	89

Table 106 - Site Replication Status - UIA.LOCAL

Health Check:

Best Practices: Replication failure can lead to object inconsistencies and major problems in Active Directory.

1.2.3.11.11 Group Policy Objects Summary

The following section provides a summary of the Group Policy Objects for domain UIA.LOCAL.

GPO Name	GPO Status	Owner
Default Domain Controllers Policy	All Settings Enabled	UIA\Domain Admins
Default Domain Policy	All Settings Enabled	UIA\Domain Admins

Table 107 - GPO - UIA.LOCAL

1.2.3.11.11.1 Central Store Repository

Domain	Configured	Central Store Path
UIA.LOCAL	No	\\uia.local\SYSVOL\uia.local\Policies\PolicyDefinitions

Table 108 - GPO Central Store - UIA.LOCAL

Health Check:

Best Practices: Ensure Central Store is deployed to centralized GPO repository.

1.2.3.11.12 Organizational Units

The following section provides a summary of Active Directory Organizational Unit information.

Name	Path	Linked GPO
.SecFrame.com	uia.local/.SecFrame.com	-
Admin	uia.local/Admin	-
Staging	uia.local/Admin/Staging	-
Tier 0	uia.local/Admin/Tier 0	-
T0-Accounts	uia.local/Admin/Tier 0/T0-Accounts	-
T0-Devices	uia.local/Admin/Tier 0/T0-Devices	-
T0-Permissions	uia.local/Admin/Tier 0/T0-Permissions	-
T0-Roles	uia.local/Admin/Tier 0/T0-Roles	-
T0-Servers	uia.local/Admin/Tier 0/T0-Servers	-
Tier 1	uia.local/Admin/Tier 1	-
T1-Accounts	uia.local/Admin/Tier 1/T1-Accounts	-
T1-Devices	uia.local/Admin/Tier 1/T1-Devices	-
T1-Permissions	uia.local/Admin/Tier 1/T1-Permissions	-
T1-Roles	uia.local/Admin/Tier 1/T1-Roles	-
T1-Servers	uia.local/Admin/Tier 1/T1-Servers	-
Tier 2	uia.local/Admin/Tier 2	-
T2-Accounts	uia.local/Admin/Tier 2/T2-Accounts	-
T2-Devices	uia.local/Admin/Tier 2/T2-Devices	-
T2-Permissions	uia.local/Admin/Tier 2/T2-Permissions	-
T2-Roles	uia.local/Admin/Tier 2/T2-Roles	-
T2-Servers	uia.local/Admin/Tier 2/T2-Servers	-
Domain Controllers	uia.local/Domain Controllers	Default Domain Controllers Policy
Grouper-Groups	uia.local/Grouper-Groups	-
People	uia.local/People	-
AWS	uia.local/People/AWS	-
AZR	uia.local/People/AZR	-
BDE	uia.local/People/BDE	-
Deprovisioned	uia.local/People/Deprovisioned	-
ESM	uia.local/People/ESM	-
FIN	uia.local/People/FIN	-
FSR	uia.local/People/FSR	-
G00	uia.local/People/GOO	-
HRE	uia.local/People/HRE	-
ITS	uia.local/People/ITS	-
OGC	uia.local/People/OGC	-
SEC	uia.local/People/SEC	-

Name	Path	Linked GPO
TST	uia.local/People/TST	-
Unassociated	uia.local/People/Unassociated	_
Quarantine	uia.local/Quarantine	_
Stage	uia.local/Stage	_
AWS	uia.local/Stage/AWS	_
Devices	uia.local/Stage/AWS/Devices	_
Groups	uia.local/Stage/AWS/Groups	_
ServiceAccounts	uia.local/Stage/AWS/ServiceAccounts	_
Test	uia.local/Stage/AWS/Test	
AZR	uia.local/Stage/AZR	
Devices	uia.local/Stage/AZR/Devices	
Groups	uia.local/Stage/AZR/Groups	
ServiceAccounts	uia.local/Stage/AZR/ServiceAccounts	
Test	uia.local/Stage/AZR/Test	
BDE	uia.local/Stage/BDE	
Devices		-
	uia.local/Stage/BDE/Devices	-
Groups	uia.local/Stage/BDE/Groups	-
ServiceAccounts	uia.local/Stage/BDE/ServiceAccounts	-
Test	uia.local/Stage/BDE/Test	-
ESM	uia.local/Stage/ESM	-
Devices	uia.local/Stage/ESM/Devices	-
Groups	uia.local/Stage/ESM/Groups	-
ServiceAccounts	uia.local/Stage/ESM/ServiceAccounts	-
Test	uia.local/Stage/ESM/Test	-
FIN	uia.local/Stage/FIN	-
Devices	uia.local/Stage/FIN/Devices	-
Groups	uia.local/Stage/FIN/Groups	-
ServiceAccounts	uia.local/Stage/FIN/ServiceAccounts	-
Test	uia.local/Stage/FIN/Test	-
FSR	uia.local/Stage/FSR	-
Devices	uia.local/Stage/FSR/Devices	-
Groups	uia.local/Stage/FSR/Groups	-
ServiceAccounts	uia.local/Stage/FSR/ServiceAccounts	-
Test	uia.local/Stage/FSR/Test	-
G00	uia.local/Stage/GOO	-
Devices	uia.local/Stage/GOO/Devices	-
Groups	uia.local/Stage/GOO/Groups	-
ServiceAccounts	uia.local/Stage/GOO/ServiceAccounts	-
Test	uia.local/Stage/GOO/Test	-
HRE	uia.local/Stage/HRE	-
Devices	uia.local/Stage/HRE/Devices	-
Groups	uia.local/Stage/HRE/Groups	-
ServiceAccounts	uia.local/Stage/HRE/ServiceAccounts	-
Test	uia.local/Stage/HRE/Test	-
ITS	uia.local/Stage/ITS	-
Devices	uia.local/Stage/ITS/Devices	-
Groups	uia.local/Stage/ITS/Groups	-
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Name	Path	Linked GPO
ServiceAccounts	uia.local/Stage/ITS/ServiceAccounts	-
Test	uia.local/Stage/ITS/Test	-
OGC	uia.local/Stage/OGC	-
Devices	uia.local/Stage/OGC/Devices	-
Groups	uia.local/Stage/OGC/Groups	-
ServiceAccounts	uia.local/Stage/OGC/ServiceAccounts	-
Test	uia.local/Stage/OGC/Test	-
SEC	uia.local/Stage/SEC	-
Devices	uia.local/Stage/SEC/Devices	-
Groups	uia.local/Stage/SEC/Groups	-
ServiceAccounts	uia.local/Stage/SEC/ServiceAccounts	-
Test	uia.local/Stage/SEC/Test	-
TST	uia.local/Stage/TST	-
Devices	uia.local/Stage/TST/Devices	-
Groups	uia.local/Stage/TST/Groups	-
ServiceAccounts	uia.local/Stage/TST/ServiceAccounts	-
Test	uia.local/Stage/TST/Test	-
Testing	uia.local/Testing	-
Tier 1	uia.local/Tier 1	-
AWS	uia.local/Tier 1/AWS	-
Devices	uia.local/Tier 1/AWS/Devices	-
Groups	uia.local/Tier 1/AWS/Groups	-
ServiceAccounts	uia.local/Tier 1/AWS/ServiceAccounts	-
Test	uia.local/Tier 1/AWS/Test	-
AZR	uia.local/Tier 1/AZR	-
Devices	uia.local/Tier 1/AZR/Devices	-
Groups	uia.local/Tier 1/AZR/Groups	-
ServiceAccounts	uia.local/Tier 1/AZR/ServiceAccounts	-
Test	uia.local/Tier 1/AZR/Test	-
BDE	uia.local/Tier 1/BDE	-
Devices	uia.local/Tier 1/BDE/Devices	-
Groups	uia.local/Tier 1/BDE/Groups	-
ServiceAccounts	uia.local/Tier 1/BDE/ServiceAccounts	-
Test	uia.local/Tier 1/BDE/Test	-
ESM	uia.local/Tier 1/ESM	-
Devices	uia.local/Tier 1/ESM/Devices	-
Groups	uia.local/Tier 1/ESM/Groups	-
ServiceAccounts	uia.local/Tier 1/ESM/ServiceAccounts	-
Test	uia.local/Tier 1/ESM/Test	-
FIN	uia.local/Tier 1/FIN	-
Devices	uia.local/Tier 1/FIN/Devices	-
Groups	uia.local/Tier 1/FIN/Groups	-
ServiceAccounts	uia.local/Tier 1/FIN/ServiceAccounts	-
Test	uia.local/Tier 1/FIN/Test	-
FSR	uia.local/Tier 1/FSR	-
Devices	uia.local/Tier 1/FSR/Devices	-
Groups	uia.local/Tier 1/FSR/Groups	-
	<u> </u>	

Path	Linked GPO
uia.local/Tier 1/FSR/ServiceAccounts	-
uia.local/Tier 1/FSR/Test	-
uia.local/Tier 1/GOO	-
uia.local/Tier 1/GOO/Devices	-
uia.local/Tier 1/GOO/Groups	-
uia.local/Tier 1/GOO/ServiceAccounts	-
uia.local/Tier 1/GOO/Test	-
uia.local/Tier 1/HRE	-
uia.local/Tier 1/HRE/Devices	-
uia.local/Tier 1/HRE/Groups	-
uia.local/Tier 1/HRE/ServiceAccounts	-
uia.local/Tier 1/HRE/Test	-
uia.local/Tier 1/ITS	-
uia.local/Tier 1/ITS/Devices	-
uia.local/Tier 1/ITS/Groups	-
uia.local/Tier 1/ITS/ServiceAccounts	-
uia.local/Tier 1/ITS/Test	-
uia.local/Tier 1/OGC	-
uia.local/Tier 1/OGC/Devices	-
uia.local/Tier 1/OGC/Groups	-
uia.local/Tier 1/OGC/ServiceAccounts	-
uia.local/Tier 1/OGC/Test	-
uia.local/Tier 1/SEC	-
uia.local/Tier 1/SEC/Devices	-
uia.local/Tier 1/SEC/Groups	-
uia.local/Tier 1/SEC/ServiceAccounts	-
uia.local/Tier 1/SEC/Test	-
uia.local/Tier 1/TST	-
uia.local/Tier 1/TST/Devices	-
uia.local/Tier 1/TST/Groups	-
uia.local/Tier 1/TST/ServiceAccounts	-
uia.local/Tier 1/TST/Test	-
uia.local/Tier 2	-
uia.local/Tier 2/AWS	-
uia.local/Tier 2/AWS/Devices	-
uia.local/Tier 2/AWS/Groups	-
uia.local/Tier 2/AWS/ServiceAccounts	-
uia.local/Tier 2/AWS/Test	-
uia.local/Tier 2/AZR	-
uia.local/Tier 2/AZR/Devices	-
uia.local/Tier 2/AZR/Groups	-
uia.local/Tier 2/AZR/ServiceAccounts	-
uia.local/Tier 2/AZR/Test	-
uia.local/Tier 2/BDE	-
uia.local/Tier 2/BDE/Devices	-
uia.local/Tier 2/BDE/Groups	-
	uia.local/Tier 1/FSR/ServiceAccounts uia.local/Tier 1/FSR/Test uia.local/Tier 1/GOO uia.local/Tier 1/GOO/Devices uia.local/Tier 1/GOO/Groups uia.local/Tier 1/GOO/ServiceAccounts uia.local/Tier 1/GOO/ServiceAccounts uia.local/Tier 1/HRE uia.local/Tier 1/HRE/Devices uia.local/Tier 1/HRE/Groups uia.local/Tier 1/HRE/ServiceAccounts uia.local/Tier 1/HRE/Test uia.local/Tier 1/HRE/Test uia.local/Tier 1/ITS/Devices uia.local/Tier 1/ITS/Groups uia.local/Tier 1/ITS/Groups uia.local/Tier 1/ITS/Fest uia.local/Tier 1/ITS/Groups uia.local/Tier 1/OGC uia.local/Tier 1/OGC uia.local/Tier 1/OGC/Devices uia.local/Tier 1/OGC/ServiceAccounts uia.local/Tier 1/OGC/ServiceAccounts uia.local/Tier 1/SEC/Devices uia.local/Tier 1/SEC/Devices uia.local/Tier 1/SEC/Test uia.local/Tier 1/SEC/Test uia.local/Tier 1/TST/Devices uia.local/Tier 1/TST/Devices uia.local/Tier 1/TST/Devices uia.local/Tier 1/TST/ServiceAccounts uia.local/Tier 1/TST/ServiceAccounts uia.local/Tier 1/TST/ServiceAccounts uia.local/Tier 1/TST/ServiceAccounts uia.local/Tier 1/TST/ServiceAccounts uia.local/Tier 2/AWS uia.local/Tier 2/AWS/Devices uia.local/Tier 2/AWS/Devices uia.local/Tier 2/AWS/ServiceAccounts uia.local/Tier 2/AWS/ServiceAccounts uia.local/Tier 2/AWS/ServiceAccounts uia.local/Tier 2/AZR/Devices uia.local/Tier 2/AZR/Devices uia.local/Tier 2/AZR/ServiceAccounts uia.local/Tier 2/AZR/Test uia.local/Tier 2/AZR/Test uia.local/Tier 2/AZR/DebE

Name	Path	Linked GPO
Test	uia.local/Tier 2/BDE/Test	-
ESM	uia.local/Tier 2/ESM	-
Devices	uia.local/Tier 2/ESM/Devices	-
Groups	uia.local/Tier 2/ESM/Groups	-
ServiceAccounts	uia.local/Tier 2/ESM/ServiceAccounts	-
Test	uia.local/Tier 2/ESM/Test	-
FIN	uia.local/Tier 2/FIN	-
Devices	uia.local/Tier 2/FIN/Devices	-
Groups	uia.local/Tier 2/FIN/Groups	-
ServiceAccounts	uia.local/Tier 2/FIN/ServiceAccounts	-
Test	uia.local/Tier 2/FIN/Test	-
FSR	uia.local/Tier 2/FSR	-
Devices	uia.local/Tier 2/FSR/Devices	-
Groups	uia.local/Tier 2/FSR/Groups	-
ServiceAccounts	uia.local/Tier 2/FSR/ServiceAccounts	-
Test	uia.local/Tier 2/FSR/Test	-
G00	uia.local/Tier 2/GOO	-
Devices	uia.local/Tier 2/GOO/Devices	-
Groups	uia.local/Tier 2/GOO/Groups	-
ServiceAccounts	uia.local/Tier 2/GOO/ServiceAccounts	-
Test	uia.local/Tier 2/GOO/Test	-
HRE	uia.local/Tier 2/HRE	-
Devices	uia.local/Tier 2/HRE/Devices	-
Groups	uia.local/Tier 2/HRE/Groups	-
ServiceAccounts	uia.local/Tier 2/HRE/ServiceAccounts	-
Test	uia.local/Tier 2/HRE/Test	-
ITS	uia.local/Tier 2/ITS	-
Devices	uia.local/Tier 2/ITS/Devices	-
Groups	uia.local/Tier 2/ITS/Groups	-
ServiceAccounts	uia.local/Tier 2/ITS/ServiceAccounts	-
Test	uia.local/Tier 2/ITS/Test	-
OGC	uia.local/Tier 2/OGC	-
Devices	uia.local/Tier 2/OGC/Devices	-
Groups	uia.local/Tier 2/OGC/Groups	-
ServiceAccounts	uia.local/Tier 2/OGC/ServiceAccounts	-
Test	uia.local/Tier 2/OGC/Test	-
SEC	uia.local/Tier 2/SEC	-
Devices	uia.local/Tier 2/SEC/Devices	-
Groups	uia.local/Tier 2/SEC/Groups	-
ServiceAccounts	uia.local/Tier 2/SEC/ServiceAccounts	-
Test	uia.local/Tier 2/SEC/Test	-
TST	uia.local/Tier 2/TST	-
Devices	uia.local/Tier 2/TST/Devices	-
Groups	uia.local/Tier 2/TST/Groups	-
ServiceAccounts	uia.local/Tier 2/TST/ServiceAccounts	-
Test	uia.local/Tier 2/TST/Test	-
-	Table 109 - Organizational Unit - UIA	LOCAL

Table 109 - Organizational Unit - UIA.LOCAL

1.3 Domain Name System Summary

The Domain Name System (DNS) is a hierarchical and decentralized naming system for computers, services, or other resources connected to the Internet or a private network. It associates various information with domain names assigned to each of the participating entities. Most prominently, it translates more readily memorized domain names to the numerical IP addresses needed for locating and identifying computer services and devices with the underlying network protocols.

1.3.1 PHARMAX.LOCAL Root Domain DNS Configuration

The following section provides a configuration summary of the DNS service.

1.3.1.1 Infrastructure Summary

The following section provides a summary of the DNS Infrastructure configuration.

DC Name	Build Number	IPv6	DnsSec	ReadOnly DC	Listening IP
CAYEY-DC-01V	17763	Yes	No	No	10.10.33.1
SERVER-DC-01V	17763	Yes	No	No	192.168.5.1

Table 110 - Infrastructure Summary - PHARMAX.LOCAL

1.3.1.1.1 Domain Controller DNS IP Configuration

DC Name	Interface	DNS IP 1	DNS IP 2	DNS IP 3	DNS IP 4
CAYEY-DC-01V	Ethernet0	10.10.33.1	192.168.5.1	127.0.0.1	-
SERVER-DC-01V	Ethernet0	192.168.5.1	127.0.0.1	8.8.8.8	-

Table 111 - DNS IP Configuration - PHARMAX.LOCAL

1.3.1.1.2 Application Directory Partition

The following section provides Directory Partition information.

SERVER-DC-01V

Name	State	Flags	Zone Count
DomainDnsZones.acad.pharmax.local	-	Not-Enlisted	0
DomainDnsZones.pharmax.local	DNS_DP_OKAY	Enlisted Auto Domain	8
DomainDnsZones.uia.local	-	Not-Enlisted	0
ForestDnsZones.pharmax.local	DNS_DP_OKAY	Enlisted Auto Forest	3

Table 112 - Directory Partitions - SERVER-DC-01V

CAYEY-DC-01V

Name	State	Flags	Zone Count
DomainDnsZones.acad.pharmax.local	-	Not-Enlisted	0
DomainDnsZones.pharmax.local	DNS_DP_OKAY	Enlisted Auto Domain	8
DomainDnsZones.uia.local	-	Not-Enlisted	0
ForestDnsZones.pharmax.local	DNS_DP_OKAY	Enlisted Auto Forest	3

Table 113 - Directory Partitions - CAYEY-DC-01V

1.3.1.1.3 Response Rate Limiting (RRL)

DC Name	Status	Responses Per Sec		Window In Sec	Leak Rate	Truncate Rate
CAYEY-DC-01V	Disable	5	5	5	3	2
SERVER-DC-01V	Disable	5	5	5	3	2

Table 114 - Response Rate Limiting - PHARMAX.LOCAL

1.3.1.1.4 Scavenging Options

DC Name	NoRefresh Interval	Refresh Interval	Scavenging Interval	Last Scavenge Time	Scavenging State
CAYEY-DC-01V	7.00:00:00	7.00:00:00	00:00:00	-	Disabled
SERVER-DC-01V	7.00:00:00	7.00:00:00	7.00:00:00	-	Enabled

Table 115 - Scavenging - PHARMAX.LOCAL

Health Check:

Best Practices: Microsoft recommends to enable aging/scavenging on all DNS servers. However, with AD-integrated zones ensure to enable DNS scavenging on one DC at main site. The results will be replicated to other DCs.

1.3.1.1.5 Forwarder Options

DC Name	IP Address	Timeout	Use Root Hint	Use Recursion
CAYEY-DC-01V	192.168.5.1	3/s	Yes	Yes
SERVER-DC-01V	8.8.8.8 10.0.0.138	3/s	Yes	Yes

Table 116 - Forwarders - PHARMAX.LOCAL

1.3.1.1.6 Root Hints

The following section provides Root Hints information.

SERVER-DC-01V

Name	IP Address
a.root-servers.net.	198.41.0.4
b.root-servers.net.	199.9.14.201

Name	IP Address
c.root-servers.net.	192.33.4.12
d.root-servers.net.	199.7.91.13
e.root-servers.net.	192.203.230.10
f.root-servers.net.	192.5.5.241
g.root-servers.net.	192.112.36.4
h.root-servers.net.	198.97.190.53
i.root-servers.net.	192.36.148.17
j.root-servers.net.	192.58.128.30
k.root-servers.net.	193.0.14.129
I.root-servers.net.	199.7.83.42
m.root-servers.net.	202.12.27.33

Table 117 - Root Hints - PHARMAX.LOCAL

CAYEY-DC-01V

Name	IP Address
a.root-servers.net.	198.41.0.4
b.root-servers.net.	199.9.14.201
c.root-servers.net.	192.33.4.12
d.root-servers.net.	199.7.91.13
e.root-servers.net.	192.203.230.10
f.root-servers.net.	192.5.5.241
g.root-servers.net.	192.112.36.4
h.root-servers.net.	198.97.190.53
i.root-servers.net.	192.36.148.17
j.root-servers.net.	192.58.128.30
k.root-servers.net.	193.0.14.129
I.root-servers.net.	199.7.83.42
m.root-servers.net.	202.12.27.33

Table 118 - Root Hints - PHARMAX.LOCAL

1.3.1.1.7 Zone Scope Recursion

DC Name	Zone Name	Forwarder	Use Recursion
CAYEY-DC-01V	Root	192.168.5.1	Yes
SERVER-DC-01V	Root	8.8.8.8 10.0.0.138	Yes

Table 119 - Zone Scope Recursion - PHARMAX.LOCAL

1.3.1.2 SERVER-DC-01V DNS Zones

Zone Name	Zone Type	Replication Scope	Dynamic Update	DS Integrated	Read Only	Signed
_msdcs.pharmax.local	Primary	Forest	Secure	Yes	No	No
pharmax.local	Primary	Domain	Secure	Yes	No	No
TrustAnchors	Primary	Forest	None	Yes	No	No

Zone Name	Zone Type	Replication Scope	Dynamic Update	DS Integrated	Read Only	Signed
uia.local	Stub	Domain	-	Yes	No	-
zenprsolutions.local	Stub	Domain	-	Yes	No	-

Table 120 - Zones - PHARMAX.LOCAL

1.3.1.2.1 Zone Delegation

Zone Name	Child Zone	Name Server	IP Address
pharmax.local	acad.pharmax.local.	ACADE-DC- 01V.acad.pharmax.local.	172.23.4.1
pharmax.local	_msdcs.pharmax.local.	server-dc-01v.pharmax.local.	192.168.5.1

Table 121 - Zone Delegations - PHARMAX.LOCAL

1.3.1.2.2 Zone Transfers

Zone Name	Secondary Servers	Notify Servers	Secure Secondaries
pharmax.local	172.23.4.1		Send zone transfers only to name servers that are authoritative for the zone.

Table 122 - Zone Transfers - pharmax.local

1.3.1.2.3 Reverse Lookup Zone

Zone Name	Zone Type	Replication Scope	Dynamic Update	DS Integrated	Read Only	Signed
0.in-addr.arpa	Primary	None	None	No	No	No
10.10.in-addr.arpa	Primary	Domain	Secure	Yes	No	No
127.in-addr.arpa	Primary	None	None	No	No	No
168.192.in-addr.arpa	Primary	Domain	Secure	Yes	No	No
23.172.in-addr.arpa	Primary	Domain	Secure	Yes	No	No
255.in-addr.arpa	Primary	None	None	No	No	No
70.23.172.in-addr.arpa	Primary	Forest	Secure	Yes	No	No

Table 123 - Zones - PHARMAX.LOCAL

1.3.1.2.4 Conditional Forwarder

Zone Name	Zone Type	Replication Scope	Master Servers	DS Integrated
zenprsolutions.gov	Forwarder	Domain	8.8.8.8	Yes

Table 124 - Conditional Forwarders - PHARMAX.LOCAL

1.3.1.2.5 Zone Scope Aging

Zone Name	Aging Enabled	Refresh Interval	NoRefresh Interval	Available For Scavenge
_msdcs.pharmax.local	Yes	7.00:00:00	7.00:00:00	Sun, 11 Sep 2022 19:00:00 GMT
pharmax.local	Yes	7.00:00:00	7.00:00:00	Sun, 11 Sep 2022 19:00:00 GMT
TrustAnchors	Yes	7.00:00:00	7.00:00:00	Sun, 11 Sep 2022 19:00:00 GMT

Table 125 - Zone Aging Properties - PHARMAX.LOCAL

1.3.1.3 CAYEY-DC-01V DNS Zones

Zone Name	Zone Type	Replication Scope	Dynamic Update	DS Integrated	Read Only	Signed
_msdcs.pharmax.local	Primary	Forest	Secure	Yes	No	No
pharmax.local	Primary	Domain	Secure	Yes	No	No
TrustAnchors	Primary	Forest	None	Yes	No	No
uia.local	Stub	Domain	-	Yes	No	-
zenpr.local	Secondary	-	-	No	No	-
zenprsolutions.local	Stub	Domain	-	Yes	No	-

Table 126 - Zones - PHARMAX.LOCAL

1.3.1.3.1 Zone Delegation

Zone Name	Child Zone	Name Server	IP Address
pharmax.local	acad.pharmax.local.	ACADE-DC-	172.23.4.1
		01V.acad.pharmax.local.	
pharmax.local	_msdcs.pharmax.local.	server-dc-01v.pharmax.local.	192.168.5.1

Table 127 - Zone Delegations - PHARMAX.LOCAL

1.3.1.3.2 Reverse Lookup Zone

Zone Name	Zone Type	Replication Scope	Dynamic Update	DS Integrated	Read Only	Signed
0.in-addr.arpa	Primary	None	None	No	No	No
10.10.in-addr.arpa	Primary	Domain	Secure	Yes	No	No
127.in-addr.arpa	Primary	None	None	No	No	No
168.192.in-addr.arpa	Primary	Domain	Secure	Yes	No	No
23.172.in-addr.arpa	Primary	Domain	Secure	Yes	No	No
255.in-addr.arpa	Primary	None	None	No	No	No
70.23.172.in-addr.arpa	Primary	Forest	Secure	Yes	No	No

Table 128 - Zones - PHARMAX.LOCAL

1.3.1.3.3 Conditional Forwarder

Zone Name	Zone Type	Replication Scope	Master Servers	DS Integrated
zenprsolutions.edu	Forwarder	None	1.1.1.1	No
zenprsolutions.gov	Forwarder	Domain	8.8.8.8	Yes

Table 129 - Conditional Forwarders - PHARMAX.LOCAL

1.3.1.3.4 Zone Scope Aging

Zone Name	Aging Enabled	Refresh Interval	NoRefresh Interval	Available For Scavenge
_msdcs.pharmax.local	Yes	7.00:00:00	7.00:00:00	Sat, 29 Jan 2022 18:00:00 GMT
pharmax.local	Yes	7.00:00:00	7.00:00:00	Fri, 24 Sep 2021 23:00:00 GMT
TrustAnchors	Yes	7.00:00:00	7.00:00:00	Thu, 07 Jan 2021 16:00:00 GMT

Table 130 - Zone Aging Properties - PHARMAX.LOCAL

1.3.2 ACAD.PHARMAX.LOCAL Child Domain DNS Configuration

The following section provides a configuration summary of the DNS service.

1.3.2.1 Infrastructure Summary

The following section provides a summary of the DNS Infrastructure configuration.

DC Name	Build Number	IPv6	DnsSec	ReadOnly DC	Listening IP
ACADE-DC-01V	17763	Yes	No	No	172.23.4.1

Table 131 - Infrastructure Summary - ACAD.PHARMAX.LOCAL

1.3.2.1.1 Domain Controller DNS IP Configuration

DC Name	Interface	DNS IP 1	DNS IP 2	DNS IP 3	DNS IP 4
ACADE-DC-01V	Ethernet0	172.23.4.1	192.168.5.1	10.10.33.1	127.0.0.1

Table 132 - DNS IP Configuration - ACAD.PHARMAX.LOCAL

1.3.2.1.2 Application Directory Partition

The following section provides Directory Partition information.

ACADE-DC-01V

Name	State	Flags	Zone Count
DomainDnsZones.acad.pharmax.local	DNS_DP_OKAY	Enlisted Auto Domain	3
DomainDnsZones.pharmax.local	-	Not-Enlisted	0
DomainDnsZones.uia.local	-	Not-Enlisted	0
ForestDnsZones.pharmax.local	DNS_DP_OKAY	Enlisted Auto Forest	3

Table 133 - Directory Partitions - ACADE-DC-01V

1.3.2.1.3 Response Rate Limiting (RRL)

DC Name	Status	Responses Per Sec		Window In Sec	Leak Rate	Truncate Rate
ACADE-DC-01V	Disable	5	5	5	3	2

Table 134 - Response Rate Limiting - ACAD.PHARMAX.LOCAL

1.3.2.1.4 Scavenging Options

DC Name	NoRefresh Interval	Refresh Interval	Scavenging Interval	Last Scavenge Time	Scavenging State
ACADE-DC-01V	7.00:00:00	7.00:00:00	00:00:00	-	Disabled

Table 135 - Scavenging - ACAD.PHARMAX.LOCAL

Health Check:

Best Practices: Microsoft recommends to enable aging/scavenging on all DNS servers. However, with AD-integrated zones ensure to enable DNS scavenging on one DC at main site. The results will be replicated to other DCs.

1.3.2.1.5 Forwarder Options

DC Name	IP Address	Timeout	Use Root Hint	Use Recursion
ACADE-DC-01V	192.168.5.1	3/s	Yes	Yes

Table 136 - Forwarders - ACAD.PHARMAX.LOCAL

1.3.2.1.6 Root Hints

The following section provides Root Hints information.

ACADE-DC-01V

Name	IP Address
a.root-servers.net.	198.41.0.4
b.root-servers.net.	199.9.14.201
c.root-servers.net.	2001:500:2::c
d.root-servers.net.	2001:500:2d::d
e.root-servers.net.	2001:500:a8::e
f.root-servers.net.	2001:500:2f::f
g.root-servers.net.	2001:500:12::d0d
h.root-servers.net.	2001:500:1::53
i.root-servers.net.	2001:7fe::53
j.root-servers.net.	2001:503:c27::2:30
k.root-servers.net.	2001:7fd::1
I.root-servers.net.	2001:500:9f::42
m.root-servers.net.	2001:dc3::35

Table 137 - Root Hints - ACAD.PHARMAX.LOCAL

1.3.2.1.7 Zone Scope Recursion

DC Name	Zone Name	Forwarder	Use Recursion
ACADE-DC-01V	Root	192.168.5.1	Yes

Table 138 - Zone Scope Recursion - ACAD.PHARMAX.LOCAL

1.3.2.2 ACADE-DC-01V DNS Zones

Zone Name	Zone Type	Replication Scope	Dynamic Update	DS Integrated	Read Only	Signed
_msdcs.pharmax.local	Primary	Forest	Secure	Yes	No	No
acad.pharmax.local	Primary	Domain	Secure	Yes	No	No
TrustAnchors	Primary	Forest	None	Yes	No	No
zenpr.local	Secondary	-	-	No	No	-

Table 139 - Zones - ACAD.PHARMAX.LOCAL

1.3.2.2.1 Zone Transfers

Zone Name	Secondary Servers	Notify Servers	Secure Secondaries
acad.pharmax.local	172.23.4.2, 10.10.40.2	172.23.4.2	Send zone transfers only to servers you specify in Secondary Servers.
zenpr.local	172.23.4.2	172.24.4.2	Send zone transfers to all secondary servers that request them.

Table 140 - Zone Transfers - zenpr.local

Health Check:

Best Practices: Configure all DNS zones only to allow zone transfers from Trusted IP addresses.

1.3.2.2.2 Reverse Lookup Zone

Zone Name	Zone Type	Replication Scope	Dynamic Update	DS Integrated	Read Only	Signed
0.23.172.in-addr.arpa	Primary	Domain	Secure	Yes	No	No
0.in-addr.arpa	Primary	None	None	No	No	No
127.in-addr.arpa	Primary	None	None	No	No	No
255.in-addr.arpa	Primary	None	None	No	No	No
70.23.172.in-addr.arpa	Primary	Forest	Secure	Yes	No	No

Table 141 - Zones - ACAD.PHARMAX.LOCAL

1.3.2.2.3 Conditional Forwarder

Zone Name	Zone Type	Replication Scope	Master Servers	DS Integrated
zenprsolutions.local	Forwarder	None	8.8.8.8	No

Table 142 - Conditional Forwarders - ACAD.PHARMAX.LOCAL

1.3.2.2.4 Zone Scope Aging

Zone Name	Aging Enabled	Refresh Interval	NoRefresh Interval	Available For Scavenge
_msdcs.pharmax.local	Yes	7.00:00:00	7.00:00:00	Sat, 29 Jan 2022 18:00:00 GMT
acad.pharmax.local	No	7.00:00:00	7.00:00:00	-
TrustAnchors	Yes	7.00:00:00	7.00:00:00	Thu, 07 Jan 2021 16:00:00 GMT

Table 143 - Zone Aging Properties - ACAD.PHARMAX.LOCAL

Health Check:

Best Practices: Microsoft recommends to enable aging/scavenging on all DNS servers. However, with AD-integrated zones ensure to enable DNS scavenging on one DC at main site. The results will be replicated to other DCs.

1.3.3 UIA.LOCAL Child Domain DNS Configuration

The following section provides a configuration summary of the DNS service.

1.3.3.1 Infrastructure Summary

The following section provides a summary of the DNS Infrastructure configuration.

DC Name	Build Number	IPv6	DnsSec	ReadOnly DC	Listening IP
DC-UIA-01V	20348	Yes	Yes	No	fe80::fc0b:52e5:4931:6229 172.23.7.1

Table 144 - Infrastructure Summary - UIA.LOCAL

1.3.3.1.1 Domain Controller DNS IP Configuration

DC Name	Interface	DNS IP 1	DNS IP 2	DNS IP 3	DNS IP 4
DC-UIA-01V	Ethernet0	127.0.0.1	192.168.5.1	-	-

Table 145 - DNS IP Configuration - UIA.LOCAL

Health Check:

Best Practices: DNS configuration on network adapter should include the loopback address, but not as the first entry.

1.3.3.1.2 Application Directory Partition

The following section provides Directory Partition information.

DC-UIA-01V

Name	State	Flags	Zone Count
DomainDnsZones.acad.pharmax.local	-	Not-Enlisted	0
DomainDnsZones.pharmax.local	-	Not-Enlisted	0
DomainDnsZones.uia.local	DNS_DP_OKAY	Enlisted Auto Domain	2
ForestDnsZones.pharmax.local	DNS DP OKAY	Enlisted Auto Forest	3

Table 146 - Directory Partitions - DC-UIA-01V

1.3.3.1.3 Response Rate Limiting (RRL)

DC Name	Status	Responses Per Sec		Window In Sec	Leak Rate	Truncate Rate
DC-UIA-01V	Disable	5	5	5	3	2

Table 147 - Response Rate Limiting - UIA.LOCAL

1.3.3.1.4 Scavenging Options

DC Name	NoRefresh Interval	Refresh Interval	Scavenging Interval	Last Scavenge Time	Scavenging State
DC-UIA-01V	7.00:00:00	7.00:00:00	00:00:00	-	Disabled

Table 148 - Scavenging - UIA.LOCAL

Health Check:

Best Practices: Microsoft recommends to enable aging/scavenging on all DNS servers. However, with AD-integrated zones ensure to enable DNS scavenging on one DC at main site. The results will be replicated to other DCs.

1.3.3.1.5 Forwarder Options

DC Name	IP Address	Timeout	Use Root Hint	Use Recursion
DC-UIA-01V	192.168.5.1	3/s	Yes	Yes

Table 149 - Forwarders - UIA.LOCAL

1.3.3.1.6 Root Hints

The following section provides Root Hints information.

DC-UIA-01V

Name	IP Address
a.root-servers.net.	2001:503:ba3e::2:30
b.root-servers.net.	2001:500:200::b
c.root-servers.net.	2001:500:2::c
d.root-servers.net.	2001:500:2d::d
e.root-servers.net.	2001:500:a8::e
f.root-servers.net.	2001:500:2f::f

Name	IP Address
g.root-servers.net.	2001:500:12::d0d
h.root-servers.net.	2001:500:1::53
i.root-servers.net.	2001:7fe::53
j.root-servers.net.	2001:503:c27::2:30
k.root-servers.net.	2001:7fd::1
I.root-servers.net.	2001:500:9f::42
m.root-servers.net.	2001:dc3::35

Table 150 - Root Hints - UIA.LOCAL

1.3.3.1.7 Zone Scope Recursion

DC Name	Zone Name	Forwarder	Use Recursion
DC-UIA-01V	Root	192.168.5.1	Yes

Table 151 - Zone Scope Recursion - UIA.LOCAL

1.3.3.2 DC-UIA-01V DNS Zones

Zone Name	Zone Type	Replication Scope	Dynamic Update	DS Integrated	Read Only	Signed
_msdcs.pharmax.local	Primary	Forest	Secure	Yes	No	No
TrustAnchors	Primary	Forest	None	Yes	No	No
uia.local	Primary	Domain	Secure	Yes	No	No

Table 152 - Zones - UIA.LOCAL

1.3.3.2.1 Reverse Lookup Zone

Zone Name	Zone Type	Replication Scope	Dynamic Update	DS Integrated	Read Only	Signed
0.in-addr.arpa	Primary	None	None	No	No	No
127.in-addr.arpa	Primary	None	None	No	No	No
255.in-addr.arpa	Primary	None	None	No	No	No
70.23.172.in-addr.arpa	Primary	Forest	Secure	Yes	No	No

Table 153 - Zones - UIA.LOCAL

1.3.3.2.2 Zone Scope Aging

Zone Name	Aging Enabled	Refresh Interval	NoRefresh Interval	Available For Scavenge
_msdcs.pharmax.local	Yes	7.00:00:00	7.00:00:00	Sat, 29 Jan 2022 18:00:00 GMT
TrustAnchors	Yes	7.00:00:00	7.00:00:00	Thu, 07 Jan 2021 16:00:00 GMT
uia.local	No	7.00:00:00	7.00:00:00	-

Table 154 - Zone Aging Properties - UIA.LOCAL

Health Check:

Best Practices: Microsoft recommends to enable aging/scavenging on all DNS servers. However, with AD-integrated zones ensure to enable DNS scavenging on one DC at main site. The results will be replicated to other DCs.

1.4 Dynamic Host Configuration Protocol Summary

The Dynamic Host Configuration Protocol (DHCP) is a network management protocol used on Internet Protocol (IP) networks for automatically assigning IP addresses and other communication parameters to devices connected to the network using a client/server architecture.

1.4.1 PHARMAX.LOCAL Root Domain DHCP Configuration

The following section provides a summary of the Dynamic Host Configuration Protocol.

1.4.1.1 DHCP Servers In Active Directory

The following section provides a summary of the DHCP servers information on PHARMAX.LOCAL.

DC Name	IP Address	Domain Name	Domain Joined	Authorized	Conflict Detection Attempts
cayey-dc-01v	10.10.33.1	pharmax.local	Yes	Yes	0
server-dc-01v	192.168.5.1	pharmax.local	Yes	Yes	1

Table 155 - DHCP Servers In Active Directory - PHARMAX.LOCAL

1.4.1.1.1 Service Database

DC Name	File Path	Backup Path	Backup Interval	Logging Enabled
cayey-dc-01v	C:\Windows\system32\dhc p\dhcp.mdb	C:\Windows\system32\dhc p\backup	60 min	Yes
server-dc-01v	C:\Windows\system32\dhc p\dhcp.mdb	C:\Windows\system32\dhc p\backup	60 min	Yes

Table 156 - DHCP Servers Database - PHARMAX.LOCAL

1.4.1.1.2 Dynamic DNS credentials

DC Name	User Name	Domain Name
cayey-dc-01v	-	-
server-dc-01v	administrator	PHARMAX.LOCAL

Table 157 - DHCP Servers Dynamic DNS Credentials - PHARMAX.LOCAL

Health Check:

Best Practice: Credentials for DNS update should be configured if secure dynamic DNS update is enabled and the domain controller is on the same host as the DHCP server.

1.4.1.2 IPv4 Scope Configuration

The following section provides a IPv4 configuration summary of the Dynamic Host Configuration Protocol.

1.4.1.2.1 IPv4 Service Statistics

DC Name	Total Scopes	Total Addresses		Addresses Available	Percentage In Use	Percentage Available
cayey-dc-01v	0	0	0	0	0	0
server-dc-01v	10	2118	220	1898	10	90

Table 158 - DHCP Server IPv4 Statistics - PHARMAX.LOCAL

1.4.1.2.2 CAYEY-DC-01V IPv4 Scope Server Options

Name	Option Id	Value	Policy Name
Time Offset	2	0	-
Time Server	4	10.10.33.1	-
Name Servers	5	10.10.33.1	-
DNS Servers	6	10.10.33.1 192.168.5.1	-

Table 159 - IPv4 Scopes Server Options - CAYEY-DC-01V

1.4.1.2.2.1 Scope DNS Setting

The following section provides a summary of the DHCP servers IPv4 Scope DNS Setting information.

Dynamic Updates	OnClientRequest
Dns Suffix	-
Name Protection	No
Update Dns RR For Older Clients	No
Disable Dns Ptr RR Update	No
Delete Dns RR On Lease Expiry	Yes

Table 160 - IPv4 Scopes DNS Setting - cayey-dc-01v

Health Check:

Best Practice: 'Always dynamically update dns records' should be configured if secure dynamic DNS update is enabled and the domain controller is on the same host as the DHCP server.

1.4.1.2.3 SERVER-DC-01V IPv4 Scopes

The following section provides detailed information of the IPv4 Scope configuration.

Scope Id	Scope Name	Scope Range	Lease Duration	State
10.10.32.0/24	ESXi-vMotion-DR	10.10.32.10 - 10.10.32.250	8.00:00:00	Active

Microsoft AD As Built Report - v1.0

Scope Id	Scope Name	Scope Range	Lease Duration	State
10.10.33.0/24	ESX-VM- NETWORK-DR	10.10.33.40 - 10.10.33.253	100.00:00:00	Active
10.10.34.0/24	ESXi-ISCSI- BLOCK-A-DR	10.10.34.10 - 10.10.34.253	8.00:00:00	Active
10.10.35.0/24	ESXi-ISCSI- BLOCK-B-DR	10.10.35.10 - 10.10.35.253	8.00:00:00	Active
192.168.10.0/24	ESX-vSAN-NET	192.168.10.10 - 192.168.10.253	8.00:00:00	Active
192.168.12.0/24	ESXi-ISCSI- BLOCK-B	192.168.12.10 - 192.168.12.240	8.00:00:00	Active
192.168.2.0/24	ESXi-vMotion	192.168.2.10 - 192.168.2.253	8.00:00:00	Active
192.168.4.0/24	ESXi-NFS-File	192.168.4.10 - 192.168.4.20	8.00:00:00	Active
192.168.6.0/24	ESXi-ISCSI- BLOCK-A	192.168.6.10 - 192.168.6.240	8.00:00:00	Active
192.168.7.0/24	ESX-VM- NETWORK	192.168.7.40 - 192.168.7.253	Unlimited	Active

Table 161 - IPv4 Scopes - SERVER-DC-01V

1.4.1.2.3.1 IPv4 Scope Statistics

Scope Id	Free IP	In Use IP	Percentage In Use	Reserved IP
10.10.32.0	241	0	0	0
10.10.33.0	210	4	2	3
10.10.34.0	244	0	0	0
10.10.35.0	244	0	0	0
192.168.10.0	244	0	0	0
192.168.12.0	226	5	2	3
192.168.2.0	243	1	0	0
192.168.4.0	11	0	0	0
192.168.6.0	227	4	2	2
192.168.7.0	8	206	96	17

Table 162 - IPv4 Scope Statistics - SERVER-DC-01V

1.4.1.2.3.2 IPv4 Network Interface Binding

Interface Alias	IP Address	Subnet Mask	State
Ethernet0	192.168.5.1	255.255.255.0	Enabled

Table 163 - IPv4 Network Interface binding - SERVER-DC-01V

1.4.1.2.4 SERVER-DC-01V IPv4 Scope Server Options

Name	Option Id	Value	Policy Name
Time Server	4	192.168.5.1	-
Name Servers	5	192.168.5.1	-

Name	Option Id	Value	Policy Name
DNS Servers	6	192.168.5.1	-
NTP Servers	42	192.168.5.1	-
Simple Mail Transport Protocol (SMTP) Servers	69	192.168.7.21	-
Post Office Protocol (POP3) Servers	70	192.168.7.21	-
	81	55	-

Table 164 - IPv4 Scopes Server Options - SERVER-DC-01V

1.4.1.2.4.1 Scope DNS Setting

The following section provides a summary of the DHCP servers IPv4 Scope DNS Setting information.

Dynamic Updates	Always
Dns Suffix	-
Name Protection	Yes
Update Dns RR For Older Clients	Yes
Disable Dns Ptr RR Update	No
Delete Dns RR On Lease Expiry	Yes

Table 165 - IPv4 Scopes DNS Setting - server-dc-01v

1.4.1.2.5 Scope Options

The following section provides a summary of the DHCP servers IPv4 Scope Server Options information.

10.10.32.0

Name	Option Id	Value	Policy Name
Router	3	10.10.32.254	-
DNS Domain Name	15	pharmax.local	-
Lease	51	691200	-

Table 166 - IPv4 Scopes Options - 10.10.32.0

10.10.33.0

Name	Option Id	Value	Policy Name
Router	3	10.10.33.254	-
Lease	51	8640000	-
Boot Server Host Name	66	192.168.5.2	-
Bootfile Name	67	snponly64.efi.vmw- hardwired	-
	81	23	-

Table 167 - IPv4 Scopes Options - 10.10.33.0

10.10.34.0

Name	Option Id	Value	Policy Name
DNS Servers	6	192.168.5.1 192.168.5.1	-
DNS Domain Name	15	pharmax.local	-
Lease	51	691200	-

Table 168 - IPv4 Scopes Options - 10.10.34.0

10.10.35.0

Name	Option Id	Value	Policy Name
DNS Servers	6	192.168.5.1 192.168.5.1	-
DNS Domain Name	15	pharmax.local	-
Lease	51	691200	-

Table 169 - IPv4 Scopes Options - 10.10.35.0

192.168.2.0

Name	Option Id	Value	Policy Name
Router	3	192.168.2.254	-
DNS Domain Name	15	pharmax.local	-
Lease	51	691200	-

Table 170 - IPv4 Scopes Options - 192.168.2.0

192.168.4.0

Name	Option Id	Value	Policy Name
Router	3	192.168.4.254	-
DNS Domain Name	15	pharmax.local	-
Lease	51	691200	-

Table 171 - IPv4 Scopes Options - 192.168.4.0

192.168.6.0

Name	Option Id	Value	Policy Name
DNS Domain Name	15	pharmax.local	-
Lease	51	691200	-

Table 172 - IPv4 Scopes Options - 192.168.6.0

192.168.7.0

Name	Option Id	Value	Policy Name
Router	3	192.168.7.254	-
DNS Domain Name	15	pharmax.local	-
Lease	51	4294967295	-
Boot Server Host Name	66	192.168.5.2	-
Bootfile Name	67	snponly64.efi.vmw- hardwired	-
	81	23	-

Table 173 - IPv4 Scopes Options - 192.168.7.0

192.168.10.0

Name	Option Id	Value	Policy Name
Router	3	192.168.10.254	-
DNS Servers	6	192.168.5.1 192.168.5.1	-
DNS Domain Name	15	pharmax.local	-
Lease	51	691200	-

Table 174 - IPv4 Scopes Options - 192.168.10.0

192.168.12.0

Name	Option Id	Value	Policy Name
DNS Domain Name	15	pharmax.local	-
Lease	51	691200	-

Table 175 - IPv4 Scopes Options - 192.168.12.0

1.4.1.3 IPv6 Scope Configuration

The following section provides a IPv6 configuration summary of the Dynamic Host Configuration Protocol.

1.4.1.3.1 IPv6 Service Statistics

DC Name	Total Scopes	Total Addresses		Addresses Available	Percentage In Use	Percentage Available
cayey-dc-01v	0	0	0	0	0	0
server-dc-01v	0	0	0	0	0	0

Table 176 - DHCP Server IPv6 Statistics - PHARMAX.LOCAL

1.4.2 ACAD.PHARMAX.LOCAL Child Domain DHCP Configuration

The following section provides a summary of the Dynamic Host Configuration Protocol.

1.4.2.1 DHCP Servers In Active Directory

The following section provides a summary of the DHCP servers information on ACAD.PHARMAX.LOCAL.

DC Name	IP Address	Domain Name	Domain Joined	Authorized	Conflict Detection Attempts
acade-dc-01v	172.23.4.1	acad.pharmax.loca	Yes	Yes	0

Table 177 - DHCP Servers In Active Directory - ACAD.PHARMAX.LOCAL

1.4.2.1.1 Service Database

DC Name	File Path	Backup Path	Backup Interval	Logging Enabled
acade-dc-01v	C:\Windows\system32\dhc p\dhcp.mdb	C:\Windows\system32\dhc p\backup	60 min	Yes

Table 178 - DHCP Servers Database - ACAD.PHARMAX.LOCAL

1.4.2.1.2 Dynamic DNS credentials

DC Name	User Name	Domain Name
acade-dc-01v	-	-

Table 179 - DHCP Servers Dynamic DNS Credentials - ACAD.PHARMAX.LOCAL

Health Check:

Best Practice: Credentials for DNS update should be configured if secure dynamic DNS update is enabled and the domain controller is on the same host as the DHCP server.

1.4.2.2 IPv4 Scope Configuration

The following section provides a IPv4 configuration summary of the Dynamic Host Configuration Protocol.

1.4.2.2.1 IPv4 Service Statistics

DC Name	Total Scopes	Total Addresses		Addresses Available	Percentage In Use	Percentage Available
acade-dc-01v	1	233	0	233	0	100

Table 180 - DHCP Server IPv4 Statistics - ACAD.PHARMAX.LOCAL

1.4.2.2.2 ACADE-DC-01V IPv4 Scopes

The following section provides detailed information of the IPv4 Scope configuration.

Scope Id	Scope Name	Scope Range	Lease Duration	State
172.23.5.0/24	Dept-B Clients	172.23.5.10 - 172.23.5.253	1.00:00:00	Active

Table 181 - IPv4 Scopes - ACADE-DC-01V

1.4.2.2.2.1 IPv4 Scope Statistics

Scope Id	Free IP	In Use IP	Percentage In Use	Reserved IP
172.23.5.0	233	0	0	0

Table 182 - IPv4 Scope Statistics - ACADE-DC-01V

1.4.2.2.2.2 IPv4 Network Interface Binding

Interface Alias	IP Address	Subnet Mask	State
Ethernet0	172.23.4.1	255.255.255.0	Enabled

Table 183 - IPv4 Network Interface binding - ACADE-DC-01V

1.4.2.2.3 ACADE-DC-01V IPv4 Scope Server Options

Name	Option Id	Value	Policy Name
DNS Servers	6	172.23.4.1 192.168.5.1 10.10.33.1	-
DNS Domain Name	15	acad.pharmax.loca	-

Table 184 - IPv4 Scopes Server Options - ACADE-DC-01V

1.4.2.2.3.1 Scope DNS Setting

The following section provides a summary of the DHCP servers IPv4 Scope DNS Setting information.

Dynamic Updates	OnClientRequest
Dns Suffix	-
Name Protection	No
Update Dns RR For Older Clients	No
Disable Dns Ptr RR Update	No
Delete Dns RR On Lease Expiry	Yes

Table 185 - IPv4 Scopes DNS Setting - acade-dc-01v

Health Check:

Best Practice: 'Always dynamically update dns records' should be configured if secure dynamic DNS update is enabled and the domain controller is on the same host as the DHCP server.

1.4.2.2.4 Scope Options

The following section provides a summary of the DHCP servers IPv4 Scope Server Options information.

172.23.5.0

Name	Option Id	Value	Policy Name
Router	3	172.23.5.254	-
Lease	51	86400	-

Table 186 - IPv4 Scopes Options - 172.23.5.0

1.4.2.3 IPv6 Scope Configuration

The following section provides a IPv6 configuration summary of the Dynamic Host Configuration Protocol.

1.4.2.3.1 IPv6 Service Statistics

DC Name	Total Scopes	Total Addresses		Addresses Available	Percentage In Use	Percentage Available
acade-dc-01v	1	184467440 737095516	0	1844674407 3709551614	0	100
		14				

Table 187 - DHCP Server IPv6 Statistics - ACAD.PHARMAX.LOCAL

1.4.2.3.2 ACADE-DC-01V IPv6 Scopes

The following section provides a summary of the DHCP servers IPv6 Scope Configuration.

Scope Id	Scope Name	Lease Duration	State
fd99:9971::/64	Dept-C Clients	8.00:00:00	Active

Table 188 - IPv6 Scopes - ACADE-DC-01V

1.4.2.3.2.1 IPv6 Scope Statistics

Scope Id	Free IP	In Use IP	Percentage In Use	Reserved IP
fd99:9971::	184467440737095	0	0	0
	51614			

Table 189 - IPv6 Scope Statistics - ACADE-DC-01V

1.4.2.3.3 ACADE-DC-01V IPv6 Scope Server Options

The following section provides a summary of the DHCP servers IPv6 Scope Server Options information.

Name	Option Id	Туре	Value
Domain Search List	24	String	fd99:9971::1

Table 190 - IPv6 Scopes Server Options - ACADE-DC-01V

1.4.2.3.3.1 Scope DNS Settings

Dynamic Updates	OnClientRequest
Name Protection	No
Delete Dns RR On Lease Expiry	Yes

Table 191 - IPv6 Scopes DNS Setting - acade-dc-01v

1.4.2.3.4 Scope Options

The following section provides a summary 6 Scope Server Options information.

fd99:9971::

The following section provides a summary of the DHCP servers IPv6 Scope Server Options information.

Name	Option Id	Туре	Value
DNS Recursive Name Server IPv6	23	IPv6Address	fd99:9971::1
Address List			

Table 192 - IPv6 Scopes Options - fd99:9971::

1.4.3 UIA.LOCAL Child Domain DHCP Configuration

The following section provides a summary of the Dynamic Host Configuration Protocol.

1.4.3.1 DHCP Servers In Active Directory

The following section provides a summary of the DHCP servers information on UIA.LOCAL.

DC Name	IP Address	Domain Name	Domain Joined	Authorized	Conflict Detection Attempts
dc-uia-01v	172.23.7.1	uia.local	Yes	Yes	0

Table 193 - DHCP Servers In Active Directory - UIA.LOCAL

1.4.3.1.1 Service Database

DC Name	File Path	Backup Path	Backup Interval	Logging Enabled
dc-uia-01v	C:\Windows\system32\dhcp\dhcp.mdb	C:\Windows\system32\dhc p\backup	60 min	Yes

Table 194 - DHCP Servers Database - UIA.LOCAL

1.4.3.1.2 Dynamic DNS credentials

DC Name	User Name	Domain Name
dc-uia-01v	-	-

Table 195 - DHCP Servers Dynamic DNS Credentials - UIA.LOCAL

Health Check:

Best Practice: Credentials for DNS update should be configured if secure dynamic DNS update is enabled and the domain controller is on the same host as the DHCP server.

1.4.3.2 IPv4 Scope Configuration

The following section provides a IPv4 configuration summary of the Dynamic Host Configuration Protocol.

1.4.3.2.1 IPv4 Service Statistics

DC Name	Total Scopes	Total Addresses				Percentage Available
dc-uia-01v	1	244	0	244	0	100

Table 196 - DHCP Server IPv4 Statistics - UIA.LOCAL

1.4.3.2.2 DC-UIA-01V IPv4 Scopes

The following section provides detailed information of the IPv4 Scope configuration.

Scope Id	Scope Name	Scope Range	Lease Duration	State
172.23.7.0/24	UIA Admin Scope	172.23.7.10 - 172.23.7.253	8.00:00:00	Active

Table 197 - IPv4 Scopes - DC-UIA-01V

1.4.3.2.2.1 IPv4 Scope Statistics

Scope Id	Free IP	In Use IP	Percentage In Use	Reserved IP
172.23.7.0	244	0	0	0

Table 198 - IPv4 Scope Statistics - DC-UIA-01V

1.4.3.2.2.2 IPv4 Network Interface Binding

Interface Alias	IP Address	Subnet Mask	State
Ethernet0	172.23.7.1	255.255.255.0	Enabled

Table 199 - IPv4 Network Interface binding - DC-UIA-01V

1.4.3.2.3 Scope Options

The following section provides a summary of the DHCP servers IPv4 Scope Server Options information.

172.23.7.0

Name	Option Id	Value	Policy Name
Router	3	172.23.7.254	-
DNS Servers	6	172.23.7.1	-
		192.168.5.1	

Name	Option Id	Value	Policy Name
DNS Domain Name	15	uia.local	-
Lease	51	691200	-

Table 200 - IPv4 Scopes Options - 172.23.7.0

1.4.3.3 IPv6 Scope Configuration

The following section provides a IPv6 configuration summary of the Dynamic Host Configuration Protocol.

1.4.3.3.1 IPv6 Service Statistics

DC Name		Total Addresses		Addresses Available		Percentage Available
dc-uia-01v	0	0	0	0	0	0

Table 201 - DHCP Server IPv6 Statistics - UIA.LOCAL

1.5 Certificate Authority Summary

In cryptography, a certificate authority or certification authority (CA) is an entity that issues digital certificates. A digital certificate certifies the ownership of a public key by the named subject of the certificate. This allows others (relying parties) to rely upon signatures or on assertions made about the private key that corresponds to the certified public key. A CA acts as a trusted third party trusted both by the subject (owner) of the certificate and by the party relying upon the certificate. The format of these certificates is specified by the X.509 or EMV standard.

CA Name	Server Name	Туре	Status
acad-ACADE-DC-01V-CA	ACADE-DC-01V	Enterprise Subordinate CA	Running
pharmax-CAYEY-DC-01V-CA	CAYEY-DC-01V	Enterprise Subordinate CA	Running
pharmax-SERVER-DC-01V-CA	SERVER-DC-01V	Enterprise Root CA	Running

Table 202 - Certification Authority - PHARMAX.LOCAL

1.5.1 Enterprise Root Certificate Authority

The following section provides the Enterprise Root CA information.

CA Name	pharmax-SERVER-DC-01V-CA
Server Name	SERVER-DC-01V
Туре	Enterprise Root CA
Config String	Server-DC-01V.pharmax.local\pharmax-SERVER-DC-01V-CA
Operating System	Microsoft Windows Server 2019 Standard
Certificate	[Subject] CN=pharmax-SERVER-DC-01V-CA, DC=pharmax, DC=local [Issuer] CN=pharmax-SERVER-DC-01V-CA, DC=pharmax, DC=local [Serial Number] 5D2E25D9AFFDE4904A05D70BEB7ACBD2 [Not Before]

	1/25/2020 7:35:16 PM [Not After] 1/25/2025 7:45:15 PM [Thumbprint] 0F6D4D3B8C71290E76B6B6C0661275F6F37B9CE0
Status	Running

Table 203 - Enterprise Root CA - PHARMAX.LOCAL

1.5.2 Enterprise Subordinate Certificate Authority

The following section provides the Enterprise Subordinate CA information.

CA Name	acad-ACADE-DC-01V-CA
Server Name	ACADE-DC-01V
Type	Enterprise Subordinate CA
Config String	acade-dc-01v.acad.pharmax.local\acad-ACADE-DC-01V- CA
Operating System	Microsoft Windows Server 2019 Standard Evaluation
Certificate	[Subject] CN=acad-ACADE-DC-01V-CA, DC=acad, DC=pharmax, DC=local [Issuer] CN=pharmax-SERVER-DC-01V-CA, DC=pharmax, DC=local [Serial Number] 61000000F5B20F8367F4837C6A0000000000F5 [Not Before] 9/22/2021 8:59:36 PM [Not After] 9/22/2023 9:09:36 PM [Thumbprint] 89532761827821E1B102CC8B86C529A6D2E92AC6
Status	Running

Table 204 - Enterprise Subordinate CA - acad-ACADE-DC-01V-CA

CA Name	pharmax-CAYEY-DC-01V-CA
Server Name	CAYEY-DC-01V
Type	Enterprise Subordinate CA
Config String	cayey-dc-01v.pharmax.local\pharmax-CAYEY-DC-01V-CA
Operating System	Microsoft Windows Server 2019 Standard Evaluation
Certificate	[Subject] CN=pharmax-CAYEY-DC-01V-CA, DC=pharmax, DC=local [Issuer] CN=pharmax-SERVER-DC-01V-CA, DC=pharmax, DC=local [Serial Number] 61000000F60DE0C8AB312FB51E0000000000F6 [Not Before] 10/4/2021 10:33:08 AM [Not After] 10/4/2023 10:43:08 AM [Thumbprint] CB2AC03DDA5A793DACAFC1EDC048CB1123D94B4B
Status	Running

Table 205 - Enterprise Subordinate CA - pharmax-CAYEY-DC-01V-CA

1.5.3 Certificate Validity Period

The following section provides the Certification Authority Certificate Validity Period information.

CA Name	Server Name	Validity Period
acad-ACADE-DC-01V-CA	ACADE-DC-01V	2 Years
pharmax-CAYEY-DC-01V-CA	CAYEY-DC-01V	2 Years
pharmax-SERVER-DC-01V-CA	SERVER-DC-01V	2 Years

Table 206 - Certificate Validity Period - PHARMAX.LOCAL

1.5.3.1 Access Control List (ACL)

DC Name	Owner	Group
acad-ACADE-DC-01V-CA	BUILTIN\Administrators	BUILTIN\Administrators
pharmax-CAYEY-DC-01V-CA	BUILTIN\Administrators	BUILTIN\Administrators
pharmax-SERVER-DC-01V-CA	BUILTIN\Administrators	BUILTIN\Administrators

Table 207 - Access Control List - PHARMAX.LOCAL

1.5.3.1.1 pharmax-SERVER-DC-01V-CA Rights

Identity	Access Control Type	Rights
BUILTIN\Administrators	Allow	ManageCA, ManageCertificates
NT AUTHORITY\Authenticated Users	Allow	Enroll
PHARMAX\Domain Admins	Allow	ManageCA, ManageCertificates
PHARMAX\Enterprise Admins	Allow	ManageCA, ManageCertificates
PHARMAX\jocolon	Allow	ManageCA, ManageCertificates, Read, Enroll

Table 208 - ACL Rights - pharmax-SERVER-DC-01V-CA

1.5.3.1.2 acad-ACADE-DC-01V-CA Rights

Identity	Access Control Type	Rights
ACAD\Domain Admins	Allow	ManageCA, ManageCertificates
BUILTIN\Administrators	Allow	ManageCA, ManageCertificates
NT AUTHORITY\Authenticated Users	Allow	Enroll
PHARMAX\Enterprise Admins	Allow	ManageCA, ManageCertificates

Table 209 - ACL Rights - acad-ACADE-DC-01V-CA

1.5.3.1.3 pharmax-CAYEY-DC-01V-CA Rights

Identity	Access Control Type	Rights
BUILTIN\Administrators	Allow	ManageCA, ManageCertificates
NT AUTHORITY\Authenticated Users	Allow	Enroll
PHARMAX\Domain Admins	Allow	ManageCA, ManageCertificates
PHARMAX\Enterprise Admins	Allow	ManageCA, ManageCertificates

Table 210 - ACL Rights - pharmax-CAYEY-DC-01V-CA

1.5.4 Cryptography Configuration

The following section provides the Certification Authority Cryptography Configuration information.

CA Name	pharmax-SERVER-DC-01V-CA
Server Name	SERVER-DC-01V
PublicKey Algorithm	RSA
Hashing Algorithm	SHA256
Provider Name	Microsoft Software Key Storage Provider
Alternate Signature Algorithm	No
Provider Is CNG	Yes

Table 211 - Cryptography Configuration - PHARMAX.LOCAL

CA Name	acad-ACADE-DC-01V-CA
Server Name	ACADE-DC-01V
PublicKey Algorithm	RSA
Hashing Algorithm	SHA256
Provider Name	Microsoft Software Key Storage Provider
Alternate Signature Algorithm	No
Provider Is CNG	Yes

Table 212 - Cryptography Configuration - PHARMAX.LOCAL

CA Name	pharmax-CAYEY-DC-01V-CA
Server Name	CAYEY-DC-01V
PublicKey Algorithm	RSA
Hashing Algorithm	SHA256
Provider Name	Microsoft Software Key Storage Provider
Alternate Signature Algorithm	No
Provider Is CNG	Yes

Table 213 - Cryptography Configuration - PHARMAX.LOCAL

1.5.5 Authority Information Access (AIA)

The following section provides the Certification Authority Authority Information Access information.

1.5.5.1 pharmax-SERVER-DC-01V-CA

Reg URI	1:C:\Windows\system32\CertSrv\CertEnroll\%1_%3%4.crt
Config URI	1:C:\Windows\system32\CertSrv\CertEnroll\ <serverdnsname>_<caname><certificatename>.crt</certificatename></caname></serverdnsname>
Flags	1
Server Publish	Yes
Include To Extension	No
OCSP	No

Table 214 - Authority Information Access - pharmax-SERVER-DC-01V-CA

Reg URI	3:Idap:///CN=%7,CN=AIA,CN=Public Key Services,CN=Services,%6%11
Config URI	3:Idap:///CN= <catruncatedname>,CN=AIA,CN=Public Key Services,CN=Services,<configurationcontainer><caobject class=""></caobject></configurationcontainer></catruncatedname>

Flags	1, 2
Server Publish	Yes
Include To Extension	Yes
OCSP	No

Table 215 - Authority Information Access - pharmax-SERVER-DC-01V-CA

Reg URI	0:http://%1/CertEnroll/%1_%3%4.crt
Config URI	0:http:// <serverdnsname>/CertEnroll/<serverdnsname>_ <caname><certificatename>.crt</certificatename></caname></serverdnsname></serverdnsname>
Flags	-
Server Publish	No
Include To Extension	No
OCSP	No

Table 216 - Authority Information Access - pharmax-SERVER-DC-01V-CA

Reg URI	0:file://%1/CertEnroll/%1_%3%4.crt
Config URI	0:file:// <serverdnsname>/CertEnroll/<serverdnsname>_ <caname><certificatename>.crt</certificatename></caname></serverdnsname></serverdnsname>
Flags	-
Server Publish	No
Include To Extension	No
OCSP	No

Table 217 - Authority Information Access - pharmax-SERVER-DC-01V-CA

Reg URI	2:http://acade-dc- 01v.acad.pharmax.local/CertData/%1 %3%4.crt
Config URI	2:http://acade-dc-
Colling ORI	01v.acad.pharmax.local/CertData/ <serverdnsname>_<ca Name><certificatename>.crt</certificatename></ca </serverdnsname>
Flags	2
Server Publish	No
Include To Extension	Yes
OCSP	No

Table 218 - Authority Information Access - pharmax-SERVER-DC-01V-CA

1.5.5.2 acad-ACADE-DC-01V-CA

Reg URI	1:C:\Windows\system32\CertSrv\CertEnroll\%1_%3%4.crt
Config URI	1:C:\Windows\system32\CertSrv\CertEnroll\ <serverdnsna< th=""></serverdnsna<>
	me>_ <caname><certificatename>.crt</certificatename></caname>
Flags	1
Server Publish	Yes
Include To Extension	No
OCSP	No

Table 219 - Authority Information Access - acad-ACADE-DC-01V-CA

Reg URI	3:ldap:///CN=%7,CN=AIA,CN=Public Key
	Services,CN=Services,%6%11

Config URI	3:Idap:///CN= <catruncatedname>,CN=AIA,CN=Public Key Services,CN=Services,<configurationcontainer><caobject class=""></caobject></configurationcontainer></catruncatedname>
Flags	1, 2
Server Publish	Yes
Include To Extension	Yes
OCSP	No

Table 220 - Authority Information Access - acad-ACADE-DC-01V-CA

Reg URI	0:http://%1/CertEnroll/%1_%3%4.crt
Config URI	0:http:// <serverdnsname>/CertEnroll/<serverdnsname>_ <caname><certificatename>.crt</certificatename></caname></serverdnsname></serverdnsname>
Flags	-
Server Publish	No
Include To Extension	No
OCSP	No

Table 221 - Authority Information Access - acad-ACADE-DC-01V-CA

Reg URI	0:file://%1/CertEnroll/%1_%3%4.crt
Config URI	0:file:// <serverdnsname>/CertEnroll/<serverdnsname>_</serverdnsname></serverdnsname>
	<caname><certificatename>.crt</certificatename></caname>
Flags	-
Server Publish	No
Include To Extension	No
OCSP	No

Table 222 - Authority Information Access - acad-ACADE-DC-01V-CA

Reg URI	2:http://acade-dc- 01v.acad.pharmax.local/CertEnroll/%1_%3%4.crt
Config URI	2:http://acade-dc- 01v.acad.pharmax.local/CertEnroll/ <serverdnsname>_<c aName><certificatename>.crt</certificatename></c </serverdnsname>
Flags	2
Server Publish	No
Include To Extension	Yes
OCSP	No

Table 223 - Authority Information Access - acad-ACADE-DC-01V-CA

Reg URI	32:http://acade-dc-01v.acad.pharmax.local/ocsp
Config URI	32:http://acade-dc-01v.acad.pharmax.local/ocsp
Flags	32
Server Publish	No
Include To Extension	No
OCSP	Yes

Table 224 - Authority Information Access - acad-ACADE-DC-01V-CA

1.5.5.3 pharmax-CAYEY-DC-01V-CA

Reg URI	1:C:\Windows\system32\CertSrv\CertEnroll\%1 %3%4.crt
INEU UIN	1.0.\\\ \u0\\\ \u0\\\ \u0\\ \u0\\

Config URI	1:C:\Windows\system32\CertSrv\CertEnroll\ <serverdnsna me="">_<caname><certificatename>.crt</certificatename></caname></serverdnsna>
Flags	1
Server Publish	Yes
Include To Extension	No
OCSP	No

Table 225 - Authority Information Access - pharmax-CAYEY-DC-01V-CA

Reg URI	3:Idap:///CN=%7,CN=AIA,CN=Public Key Services,CN=Services,%6%11
Config URI	3:Idap:///CN= <catruncatedname>,CN=AIA,CN=Public Key Services,CN=Services,<configurationcontainer><caobject class=""></caobject></configurationcontainer></catruncatedname>
Flags	1, 2
Server Publish	Yes
Include To Extension	Yes
OCSP	No

Table 226 - Authority Information Access - pharmax-CAYEY-DC-01V-CA

Reg URI	0:http://%1/CertEnroll/%1_%3%4.crt
Config URI	0:http:// <serverdnsname>/CertEnroll/<serverdnsname>_ <caname><certificatename>.crt</certificatename></caname></serverdnsname></serverdnsname>
Flags	-
Server Publish	No
Include To Extension	No
OCSP	No

Table 227 - Authority Information Access - pharmax-CAYEY-DC-01V-CA

Reg URI	0:file://%1/CertEnroll/%1_%3%4.crt
Config URI	0:file:// <serverdnsname>/CertEnroll/<serverdnsname>_ <caname><certificatename>.crt</certificatename></caname></serverdnsname></serverdnsname>
Flags	-
Server Publish	No
Include To Extension	No
OCSP	No

Table 228 - Authority Information Access - pharmax-CAYEY-DC-01V-CA

1.5.6 Certificate Revocation List (CRL)

The following section provides the Certification Authority CRL Distribution Point information.

1.5.6.1 CRL Validity Period

CA Name	Base CRL	Base CRL Overlap	Delta CRL	Delta CRL Overlap
acad-ACADE-DC-01V-CA	1 Weeks	0 Hours	1 Days	0 Minutes
pharmax-CAYEY-DC-01V-CA	1 Weeks	0 Hours	1 Days	0 Minutes
pharmax-SERVER-DC-01V-CA	50 Weeks	0 Hours	0 Days	0 Minutes

Table 229 - CRL Validity Preriod - PHARMAX.LOCAL

1.5.6.2 CRL Flags Settings

CA Name	Server Name	CRL Flags
acad-ACADE-DC-01V-CA	ACADE-DC-01V	DeleteExpiredCRLs
pharmax-CAYEY-DC-01V-CA	CAYEY-DC-01V	DeleteExpiredCRLs
pharmax-SERVER-DC-01V-CA	SERVER-DC-01V	DeleteExpiredCRLs

Table 230 - CRL Flags - PHARMAX.LOCAL

1.5.6.3 CRL Distribution Point

The following section provides the Certification Authority CRL Distribution Point information.

1.5.6.3.1 pharmax-SERVER-DC-01V-CA

Reg URI	65:C:\Windows\system32\CertSrv\CertEnroll\%3%8%9.crl
Config URI	65:C:\Windows\system32\CertSrv\CertEnroll\ <caname><c< th=""></c<></caname>
	RLNameSuffix> <deltacrlallowed>.crl</deltacrlallowed>
Url Scheme	Unknown
ProjectedURI	65:C:\Windows\system32\CertSrv\CertEnroll\pharmax- SERVER-DC-01V-CA.crl
	65:C:\Windows\system32\CertSrv\CertEnroll\pharmax- SERVER-DC-01V-CA+.crl
Flags	1, 64
CRL Publish	-
Delta CRL Publish	Yes
Add To Cert CDP	No
Add To Fresh est CRL	No
Add To Crl cdp	No

Table 231 - CRL Distribution Point - pharmax-SERVER-DC-01V-CA

Reg URI	79:ldap:///CN=%7%8,CN=%2,CN=CDP,CN=Public Key Services,CN=Services,%6%10
Config URI	79:Idap:///CN= <catruncatedname><crlnamesuffix>,CN =<servershortname>,CN=CDP,CN=Public Key Services,CN=Services,<configurationcontainer><cdpobje ctclass=""></cdpobje></configurationcontainer></servershortname></crlnamesuffix></catruncatedname>
Url Scheme	LDAP
ProjectedURI	79:Idap:///CN=pharmax-SERVER-DC-01V-CA,CN=Server-DC-01V,CN=CDP,CN=Public Key Services,CN=Services,CN=Configuration,DC=pharmax,DC=local?certificateRevocationList?base?objectClass=cRLDistributionPoint
Flags	1, 2, 4, 8, 64
CRL Publish	-
Delta CRL Publish	Yes
Add To Cert CDP	Yes

Add To Fresh est CRL	Yes
Add To Crl cdp	Yes

Table 232 - CRL Distribution Point - pharmax-SERVER-DC-01V-CA

Reg URI	0:http://%1/CertEnroll/%3%8%9.crl
Config URI	0:http:// <serverdnsname>/CertEnroll/<caname><crlna meSuffix><deltacrlallowed>.crl</deltacrlallowed></crlna </caname></serverdnsname>
Url Scheme	HTTP
ProjectedURI	0:http:///CertEnroll/pharmax-SERVER-DC-01V-CA.crl 0:http:///CertEnroll/pharmax-SERVER-DC-01V-CA+.crl
Flags	-
CRL Publish	-
Delta CRL Publish	No
Add To Cert CDP	No
Add To Fresh est CRL	No
Add To Crl cdp	No

Table 233 - CRL Distribution Point - pharmax-SERVER-DC-01V-CA

Reg URI	0:file://%1/CertEnroll/%3%8%9.crl
Config URI	0:file:// <serverdnsname>/CertEnroll/<caname><crlnam< th=""></crlnam<></caname></serverdnsname>
	eSuffix> <deltacrlallowed>.crl</deltacrlallowed>
Url Scheme	UNC
ProjectedURI	0:file:///CertEnroll/pharmax-SERVER-DC-01V-CA.crl
	0:file:///CertEnroll/pharmax-SERVER-DC-01V-CA+.crl
Flags	-
CRL Publish	-
Delta CRL Publish	No
Add To Cert CDP	No
Add To Fresh est CRL	No
Add To Crl cdp	No

Table 234 - CRL Distribution Point - pharmax-SERVER-DC-01V-CA

Reg URI	6:http://acade-dc-
	01v.acad.pharmax.local/CertData/%3%8%9.crl
Config URI	6:http://acade-dc-
	01v.acad.pharmax.local/CertData/ <caname><crlnamesu ffix=""><deltacrlallowed>.crl</deltacrlallowed></crlnamesu></caname>
Url Scheme	HTTP
ProjectedURI	6:http://acade-dc-
	01v.acad.pharmax.local/CertData/pharmax-SERVER-DC-
	01V-CA.crl 6:http://acade-dc-
	01v.acad.pharmax.local/CertData/pharmax-SERVER-DC-
	01V-CA+.crl
Flags	2, 4
CRL Publish	-
Delta CRL Publish	No
Add To Cert CDP	Yes
Add To Fresh est CRL	Yes
Add To Crl cdp	No

Table 235 - CRL Distribution Point - pharmax-SERVER-DC-01V-CA

1.5.6.3.2 acad-ACADE-DC-01V-CA

Reg URI	65:C:\Windows\system32\CertSrv\CertEnroll\%3%8%9.crl
Config URI	65:C:\Windows\system32\CertSrv\CertEnroll\ <caname><c RLNameSuffix><deltacrlallowed>.crl</deltacrlallowed></c </caname>
Url Scheme	Unknown
ProjectedURI	65:C:\Windows\system32\CertSrv\CertEnroll\acad-ACADE-DC-01V-CA.crl 65:C:\Windows\system32\CertSrv\CertEnroll\acad-ACADE-DC-01V-CA+.crl
Flags	1, 64
CRL Publish	-
Delta CRL Publish	Yes
Add To Cert CDP	No
Add To Fresh est CRL	No
Add To Crl cdp	No

Table 236 - CRL Distribution Point - acad-ACADE-DC-01V-CA

Reg URI	79:Idap:///CN=%7%8,CN=%2,CN=CDP,CN=Public Key Services,CN=Services,%6%10
Config URI	79:ldap:///CN= <catruncatedname><crlnamesuffix>,CN =<servershortname>,CN=CDP,CN=Public Key</servershortname></crlnamesuffix></catruncatedname>
	Services,CN=Services, <configurationcontainer><cdpobje ctclass=""></cdpobje></configurationcontainer>
Url Scheme	LDAP
ProjectedURI	79:Idap:///CN=acad-ACADE-DC-01V-CA,CN=acade-dc-01v,CN=CDP,CN=Public Key Services,CN=Services,CN=Configuration,DC=pharmax,DC=local?certificateRevocationList?base?objectClass=cRLDistributionPoint
Flags	1, 2, 4, 8, 64
CRL Publish	-
Delta CRL Publish	Yes
Add To Cert CDP	Yes
Add To Fresh est CRL	Yes
Add To Crl cdp	Yes

Table 237 - CRL Distribution Point - acad-ACADE-DC-01V-CA

Reg URI	0:http://%1/CertEnroll/%3%8%9.crl
Config URI	0:http:// <serverdnsname>/CertEnroll/<caname><crlnamesuffix><deltacrlallowed>.crl</deltacrlallowed></crlnamesuffix></caname></serverdnsname>
Url Scheme	HTTP
ProjectedURI	0:http:///CertEnroll/acad-ACADE-DC-01V-CA.crl 0:http:///CertEnroll/acad-ACADE-DC-01V-CA+.crl
Flags	-
CRL Publish	-
Delta CRL Publish	No
Add To Cert CDP	No

Add To Fresh est CRL	No
Add To Crl cdp	No

Table 238 - CRL Distribution Point - acad-ACADE-DC-01V-CA

Reg URI	0:file://%1/CertEnroll/%3%8%9.crl
Config URI	0:file:// <serverdnsname>/CertEnroll/<caname><crlnamesuffix><deltacrlallowed>.crl</deltacrlallowed></crlnamesuffix></caname></serverdnsname>
Url Scheme	UNC
ProjectedURI	0:file:///CertEnroll/acad-ACADE-DC-01V-CA.crl 0:file:///CertEnroll/acad-ACADE-DC-01V-CA+.crl
Flags	-
CRL Publish	-
Delta CRL Publish	No
Add To Cert CDP	No
Add To Fresh est CRL	No
Add To Crl cdp	No

Table 239 - CRL Distribution Point - acad-ACADE-DC-01V-CA

Reg URI	6:http://acade-dc-
	01v.acad.pharmax.local/CertEnroll/%3%8%9.crl
Config URI	6:http://acade-dc-
	01v.acad.pharmax.local/CertEnroll/ <caname><crlnames< th=""></crlnames<></caname>
	uffix> <deltacrlallowed>.crl</deltacrlallowed>
Url Scheme	HTTP
ProjectedURI	6:http://acade-dc-01v.acad.pharmax.local/CertEnroll/acad-
	ACADE-DC-01V-CA.crl 6:http://acade-dc-
	01v.acad.pharmax.local/CertEnroll/acad-ACADE-DC-01V-
	CA+.crl
Flags	2, 4
CRL Publish	-
Delta CRL Publish	No
Add To Cert CDP	Yes
Add To Fresh est CRL	Yes
Add To Crl cdp	No

Table 240 - CRL Distribution Point - acad-ACADE-DC-01V-CA

1.5.6.3.3 pharmax-CAYEY-DC-01V-CA

Reg URI	65:C:\Windows\system32\CertSrv\CertEnroll\%3%8%9.crl
Config URI	65:C:\Windows\system32\CertSrv\CertEnroll\ <caname><c RLNameSuffix><deltacrlallowed>.crl</deltacrlallowed></c </caname>
Url Scheme	Unknown
ProjectedURI	65:C:\Windows\system32\CertSrv\CertEnroll\pharmax-CAYEY-DC-01V-CA.crl 65:C:\Windows\system32\CertSrv\CertEnroll\pharmax-CAYEY-DC-01V-CA+.crl
Flags	1, 64
CRL Publish	-
Delta CRL Publish	Yes

Add To Cert CDP	No
Add To Fresh est CRL	No
Add To Crl cdp	No

Table 241 - CRL Distribution Point - pharmax-CAYEY-DC-01V-CA

Reg URI	79:Idap:///CN=%7%8,CN=%2,CN=CDP,CN=Public Key Services,CN=Services,%6%10
Config URI	79:Idap:///CN= <catruncatedname><crlnamesuffix>,CN =<servershortname>,CN=CDP,CN=Public Key Services,CN=Services,<configurationcontainer><cdpobje ctclass=""></cdpobje></configurationcontainer></servershortname></crlnamesuffix></catruncatedname>
Url Scheme	LDAP
ProjectedURI	79:Idap:///CN=pharmax-CAYEY-DC-01V-CA,CN=cayey-dc-01v,CN=CDP,CN=Public Key Services,CN=Services,CN=Configuration,DC=pharmax,DC=local?certificateRevocationList?base?objectClass=cRLDistributionPoint
Flags	1, 2, 4, 8, 64
CRL Publish	-
Delta CRL Publish	Yes
Add To Cert CDP	Yes
Add To Fresh est CRL	Yes
Add To Crl cdp	Yes

Table 242 - CRL Distribution Point - pharmax-CAYEY-DC-01V-CA

Reg URI	0:http://%1/CertEnroll/%3%8%9.crl
Config URI	0:http:// <serverdnsname>/CertEnroll/<caname><crlna meSuffix><deltacrlallowed>.crl</deltacrlallowed></crlna </caname></serverdnsname>
Url Scheme	HTTP
ProjectedURI	0:http:///CertEnroll/pharmax-CAYEY-DC-01V-CA.crl 0:http:///CertEnroll/pharmax-CAYEY-DC-01V-CA+.crl
Flags	-
CRL Publish	-
Delta CRL Publish	No
Add To Cert CDP	No
Add To Fresh est CRL	No
Add To Crl cdp	No

Table 243 - CRL Distribution Point - pharmax-CAYEY-DC-01V-CA

Reg URI	0:file://%1/CertEnroll/%3%8%9.crl
Config URI	0:file:// <serverdnsname>/CertEnroll/<caname><crlnamesuffix><deltacrlallowed>.crl</deltacrlallowed></crlnamesuffix></caname></serverdnsname>
Url Scheme	UNC
ProjectedURI	0:file:///CertEnroll/pharmax-CAYEY-DC-01V-CA.crl 0:file:///CertEnroll/pharmax-CAYEY-DC-01V-CA+.crl
Flags	-
CRL Publish	-
Delta CRL Publish	No
Add To Cert CDP	No
Add To Fresh est CRL	No

Add To Crl cdp

No

Table 244 - CRL Distribution Point - pharmax-CAYEY-DC-01V-CA

1.5.7 AIA and CDP Health Status

The following section is intended to perform Certification Authority health status checking by CA certificate chain status and validating all CRL Distribution Point (CDP) and Authority Information Access (AIA) URLs for each certificate in the chain.

CA Name	Childs	Health
acad-ACADE-DC-01V-CA	acad-ACADE-DC-01V-CA pharmax- SERVER-DC-01V-CA	Error
pharmax-CAYEY-DC-01V-CA	pharmax-CAYEY-DC-01V-CA pharmax-SERVER-DC-01V-CA	Error
pharmax-SERVER-DC-01V-CA	pharmax-SERVER-DC-01V-CA	Error

Table 245 - Certification Authority Health - PHARMAX.LOCAL

1.5.8 Certificate Template Summary

The following section provides the certificate templates that are assigned to a specified Certification Authority (CA). CA server can issue certificates only based on assigned templates.

1.5.8.1 pharmax-SERVER-DC-01V-CA

Template Name	Schema Version	Supported CA	Autoenrollment
Administrator	1	Windows 2000 Server	No
Basic EFS	1	Windows 2000 Server	No
Computer	1	Windows 2000 Server	No
ConfigMgr Client Distribution	2	Windows Server 2003 Enterprise Edition	Yes
Directory Email Replication	2	Windows Server 2003 Enterprise Edition	Yes
Domain Controller	1	Windows 2000 Server	No
Domain Controller Authentication	2	Windows Server 2003 Enterprise Edition	Yes
EFS Recovery Agent	1	Windows 2000 Server	No
Kerberos Authentication	2	Windows Server 2003 Enterprise Edition	Yes
Pharmax Key Recovery Agent	2	Windows Server 2003 Enterprise Edition	Yes
Pharmax Labs Key Archive	2	Windows Server 2003 Enterprise Edition	Yes
Pharmax Web Server	2	Windows Server 2003 Enterprise Edition	No
Pharmax Workstation Authentication	2	Windows Server 2003 Enterprise Edition	Yes
Subordinate Certification Authority	1	Windows 2000 Server	No

Template Name	Schema Version	Supported CA	Autoenrollment
User	1	Windows 2000 Server	No
Web Server	1	Windows 2000 Server	No
Web Server - ADFS	2	Windows Server 2003 Enterprise Edition	No
Web Server - Horizon	2	Windows Server 2003 Enterprise Edition	No
Web Server - Parallel	2	Windows Server 2003 Enterprise Edition	No
Web Server - WSUS SSL	2	Windows Server 2003 Enterprise Edition	No

Table 246 - Issued Certificate Template - pharmax-SERVER-DC-01V-CA

1.5.8.2 Certificate Template In Active Directory

The following section provides registered certificate templates from Active Directory.

Template Name	Schema Version	Supported CA	Autoenrollment
Administrator	1	Windows 2000 Server	No
Authenticated Session	1	Windows 2000 Server	No
Basic EFS	1	Windows 2000 Server	No
CA Exchange	2	Windows Server 2003 Enterprise Edition	No
CEP Encryption	1	Windows 2000 Server	No
Code Signing	1	Windows 2000 Server	No
Computer	1	Windows 2000 Server	No
ConfigMgr Client Distribution	2	Windows Server 2003 Enterprise Edition	Yes
Cross Certification Authority	2	Windows Server 2003 Enterprise Edition	No
Directory Email Replication	2	Windows Server 2003 Enterprise Edition	Yes
Domain Controller	1	Windows 2000 Server	No
Domain Controller Authentication	2	Windows Server 2003 Enterprise Edition	Yes
EFS Recovery Agent	1	Windows 2000 Server	No
Enrollment Agent	1	Windows 2000 Server	No
Enrollment Agent (Computer)	1	Windows 2000 Server	No
Exchange Enrollment Agent (Offline request)	1	Windows 2000 Server	No
Exchange Signature Only	1	Windows 2000 Server	No
Exchange User	1	Windows 2000 Server	No
IPSec	1	Windows 2000 Server	No
IPSec (Offline request)	1	Windows 2000 Server	No
Kerberos Authentication	2	Windows Server 2003 Enterprise Edition	Yes

Template Name	Schema Version	Supported CA	Autoenrollment
Key Recovery Agent	2	Windows Server 2003 Enterprise Edition	Yes
OCSP Response Signing	3	Windows Server 2008 Enterprise Edition	No
Pharmax Key Recovery Agent	2	Windows Server 2003 Enterprise Edition	Yes
Pharmax Labs Key Archive	2	Windows Server 2003 Enterprise Edition	Yes
Pharmax Web Server	2	Windows Server 2003 Enterprise Edition	No
Pharmax Workstation Authentication	2	Windows Server 2003 Enterprise Edition	Yes
RAS and IAS Server	2	Windows Server 2003 Enterprise Edition	Yes
Root Certification Authority	1	Windows 2000 Server	No
Router (Offline request)	1	Windows 2000 Server	No
Smartcard Logon	1	Windows 2000 Server	No
Smartcard User	1	Windows 2000 Server	No
Subordinate Certification Authority	1	Windows 2000 Server	No
Trust List Signing	1	Windows 2000 Server	No
User	1	Windows 2000 Server	No
User Signature Only	1	Windows 2000 Server	No
Web Server	1	Windows 2000 Server	No
Web Server - ADFS	2	Windows Server 2003 Enterprise Edition	No
Web Server - Horizon	2	Windows Server 2003 Enterprise Edition	No
Web Server - Parallel	2	Windows Server 2003 Enterprise Edition	No
Web Server - WSUS SSL	2	Windows Server 2003 Enterprise Edition	No
Workstation Authentication	2	Windows Server 2003 Enterprise Edition	Yes

Table 247 - Certificate Template in AD - PHARMAX.LOCAL

1.5.9 Certificate Template Summary

The following section provides the certificate templates that are assigned to a specified Certification Authority (CA). CA server can issue certificates only based on assigned templates.

1.5.9.1 acad-ACADE-DC-01V-CA

Template Name	Schema Version	Supported CA	Autoenrollment
Administrator	1	Windows 2000 Server	No
Basic EFS	1	Windows 2000 Server	No
Computer	1	Windows 2000 Server	No

Template Name	Schema Version	Supported CA	Autoenrollment
Directory Email Replication	2	Windows Server 2003 Enterprise Edition	Yes
Domain Controller	1	Windows 2000 Server	No
Domain Controller Authentication	2	Windows Server 2003 Enterprise Edition	Yes
EFS Recovery Agent	1	Windows 2000 Server	No
Kerberos Authentication	2	Windows Server 2003 Enterprise Edition	Yes
Pharmax Workstation Authentication	2	Windows Server 2003 Enterprise Edition	Yes
Subordinate Certification Authority	1	Windows 2000 Server	No
User	1	Windows 2000 Server	No
Web Server	1	Windows 2000 Server	No

Table 248 - Issued Certificate Template - acad-ACADE-DC-01V-CA

1.5.9.2 Certificate Template In Active Directory

The following section provides registered certificate templates from Active Directory.

Template Name	Schema Version	Supported CA	Autoenrollment
Administrator	1	Windows 2000 Server	No
Authenticated Session	1	Windows 2000 Server	No
Basic EFS	1	Windows 2000 Server	No
CA Exchange	2	Windows Server 2003 Enterprise Edition	No
CEP Encryption	1	Windows 2000 Server	No
Code Signing	1	Windows 2000 Server	No
Computer	1	Windows 2000 Server	No
ConfigMgr Client Distribution	2	Windows Server 2003 Enterprise Edition	Yes
Cross Certification Authority	2	Windows Server 2003 Enterprise Edition	No
Directory Email Replication	2	Windows Server 2003 Enterprise Edition	Yes
Domain Controller	1	Windows 2000 Server	No
Domain Controller Authentication	2	Windows Server 2003 Enterprise Edition	Yes
EFS Recovery Agent	1	Windows 2000 Server	No
Enrollment Agent	1	Windows 2000 Server	No
Enrollment Agent (Computer)	1	Windows 2000 Server	No
Exchange Enrollment Agent (Offline request)	1	Windows 2000 Server	No
Exchange Signature Only	1	Windows 2000 Server	No
Exchange User	1	Windows 2000 Server	No
IPSec	1	Windows 2000 Server	No
IPSec (Offline request)	1	Windows 2000 Server	No

Template Name	Schema Version	Supported CA	Autoenrollment
Kerberos Authentication	2	Windows Server 2003 Enterprise Edition	Yes
Key Recovery Agent	2	Windows Server 2003 Enterprise Edition	Yes
OCSP Response Signing	3	Windows Server 2008 Enterprise Edition	No
Pharmax Key Recovery Agent	2	Windows Server 2003 Enterprise Edition	Yes
Pharmax Labs Key Archive	2	Windows Server 2003 Enterprise Edition	Yes
Pharmax Web Server	2	Windows Server 2003 Enterprise Edition	No
Pharmax Workstation Authentication	2	Windows Server 2003 Enterprise Edition	Yes
RAS and IAS Server	2	Windows Server 2003 Enterprise Edition	Yes
Root Certification Authority	1	Windows 2000 Server	No
Router (Offline request)	1	Windows 2000 Server	No
Smartcard Logon	1	Windows 2000 Server	No
Smartcard User	1	Windows 2000 Server	No
Subordinate Certification Authority	1	Windows 2000 Server	No
Trust List Signing	1	Windows 2000 Server	No
User	1	Windows 2000 Server	No
User Signature Only	1	Windows 2000 Server	No
Web Server	1	Windows 2000 Server	No
Web Server - ADFS	2	Windows Server 2003 Enterprise Edition	No
Web Server - Horizon	2	Windows Server 2003 Enterprise Edition	No
Web Server - Parallel	2	Windows Server 2003 Enterprise Edition	No
Web Server - WSUS SSL	2	Windows Server 2003 Enterprise Edition	No
Workstation Authentication	2	Windows Server 2003 Enterprise Edition	Yes

Table 249 - Certificate Template in AD - PHARMAX.LOCAL

1.5.10 Certificate Template Summary

The following section provides the certificate templates that are assigned to a specified Certification Authority (CA). CA server can issue certificates only based on assigned templates.

1.5.10.1 pharmax-CAYEY-DC-01V-CA

Template Name	Schema Version	Supported CA	Autoenrollment
Administrator	1	Windows 2000 Server	No

Template Name	Schema Version	Supported CA	Autoenrollment
Basic EFS	1	Windows 2000 Server	No
Computer	1	Windows 2000 Server	No
Directory Email Replication	2	Windows Server 2003 Enterprise Edition	Yes
Domain Controller	1	Windows 2000 Server	No
Domain Controller Authentication	2	Windows Server 2003 Enterprise Edition	Yes
EFS Recovery Agent	1	Windows 2000 Server	No
Kerberos Authentication	2	Windows Server 2003 Enterprise Edition	Yes
Subordinate Certification Authority	1	Windows 2000 Server	No
User	1	Windows 2000 Server	No
Web Server	1	Windows 2000 Server	No

Table 250 - Issued Certificate Template - pharmax-CAYEY-DC-01V-CA

1.5.10.2 Certificate Template In Active Directory

The following section provides registered certificate templates from Active Directory.

Template Name	Schema Version	Supported CA	Autoenrollment
Administrator	1	Windows 2000 Server	No
Authenticated Session	1	Windows 2000 Server	No
Basic EFS	1	Windows 2000 Server	No
CA Exchange	2	Windows Server 2003 Enterprise Edition	No
CEP Encryption	1	Windows 2000 Server	No
Code Signing	1	Windows 2000 Server	No
Computer	1	Windows 2000 Server	No
ConfigMgr Client Distribution	2	Windows Server 2003 Enterprise Edition	Yes
Cross Certification Authority	2	Windows Server 2003 Enterprise Edition	No
Directory Email Replication	2	Windows Server 2003 Enterprise Edition	Yes
Domain Controller	1	Windows 2000 Server	No
Domain Controller Authentication	2	Windows Server 2003 Enterprise Edition	Yes
EFS Recovery Agent	1	Windows 2000 Server	No
Enrollment Agent	1	Windows 2000 Server	No
Enrollment Agent (Computer)	1	Windows 2000 Server	No
Exchange Enrollment Agent (Offline request)	1	Windows 2000 Server	No
Exchange Signature Only	1	Windows 2000 Server	No
Exchange User	1	Windows 2000 Server	No
IPSec	1	Windows 2000 Server	No
IPSec (Offline request)	1	Windows 2000 Server	No

Template Name	Schema Version	Supported CA	Autoenrollment
Kerberos Authentication	2	Windows Server 2003 Enterprise Edition	Yes
Key Recovery Agent	2	Windows Server 2003 Enterprise Edition	Yes
OCSP Response Signing	3	Windows Server 2008 Enterprise Edition	No
Pharmax Key Recovery Agent	2	Windows Server 2003 Enterprise Edition	Yes
Pharmax Labs Key Archive	2	Windows Server 2003 Enterprise Edition	Yes
Pharmax Web Server	2	Windows Server 2003 Enterprise Edition	No
Pharmax Workstation Authentication	2	Windows Server 2003 Enterprise Edition	Yes
RAS and IAS Server	2	Windows Server 2003 Enterprise Edition	Yes
Root Certification Authority	1	Windows 2000 Server	No
Router (Offline request)	1	Windows 2000 Server	No
Smartcard Logon	1	Windows 2000 Server	No
Smartcard User	1	Windows 2000 Server	No
Subordinate Certification Authority	1	Windows 2000 Server	No
Trust List Signing	1	Windows 2000 Server	No
User	1	Windows 2000 Server	No
User Signature Only	1	Windows 2000 Server	No
Web Server	1	Windows 2000 Server	No
Web Server - ADFS	2	Windows Server 2003 Enterprise Edition	No
Web Server - Horizon	2	Windows Server 2003 Enterprise Edition	No
Web Server - Parallel	2	Windows Server 2003 Enterprise Edition	No
Web Server - WSUS SSL	2	Windows Server 2003 Enterprise Edition	No
Workstation Authentication	2	Windows Server 2003 Enterprise Edition	Yes

Table 251 - Certificate Template in AD - PHARMAX.LOCAL

1.5.11 Key Recovery Agent Certificate

The following section provides the Key Recovery Agent certificate used to encrypt user's certificate private key and store it in CA database. In the case when user cannot access his or her certificate private key it is possible to recover it by Key Recovery Agent if Key Archival procedure was taken against particular certificate.

CA Name	pharmax-SERVER-DC-01V-CA	
Server Name	SERVER-DC-01V	
Certificate	[Subject] CN=Administrator, CN=Users, DC=pharmax,	
	DC=local [Issuer] CN=pharmax-SERVER-DC-01V-CA,	

DC=pharmax, DC=local [Serial Number]
61000001068FABBB1D8B7B986A000000000106 [Not
Before] 11/16/2021 8:11:55 PM [Not After] 11/16/2023
8:11:55 PM [Thumbprint]
0C65947128A94A0209907127D13F81AD5840CA37

Table 252 - Key Recovery Agent Certificate - pharmax-SERVER-DC-01V-CA

CA Name	acad-ACADE-DC-01V-CA
Server Name	ACADE-DC-01V
Certificate	[Subject] CN=Administrator, CN=Users, DC=pharmax,
	DC=local [Issuer] CN=pharmax-SERVER-DC-01V-CA,
	DC=pharmax, DC=local [Serial Number]
	610000011FC4B5F75727EEAB080000000011F [Not
	Before] 1/23/2022 10:30:44 PM [Not After] 1/23/2024
	10:30:44 PM [Thumbprint]
	4883ED66CAB909725F89D7483E97DBF69C4CDA9B

Table 253 - Key Recovery Agent Certificate - acad-ACADE-DC-01V-CA