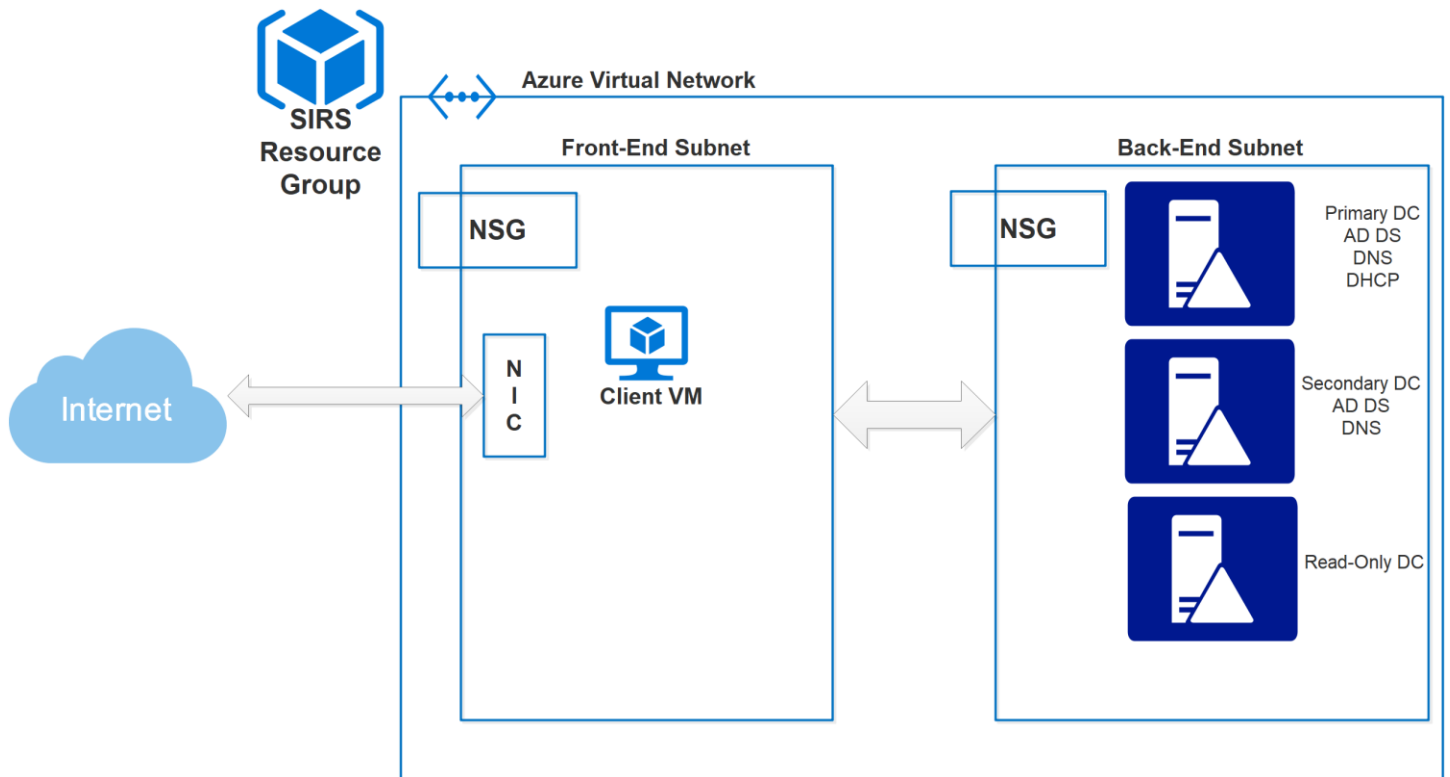


Implementation of the Infrastructure



Primary Domain Controller with the below Roles and Server Groups configured and installed:

- Active Directory Domain Service
- DHCP
- DNS

Primary Domain Controller Dashboard

The screenshot shows the Server Manager Dashboard for a Primary Domain Controller. The dashboard includes a 'WELCOME TO SERVER MANAGER' message with a 'QUICK START' section containing five steps: 1. Configure this local server, 2. Add roles and features, 3. Add other servers to manage, 4. Create a server group, and 5. Connect this server to cloud services. Below this, the 'ROLES AND SERVER GROUPS' section displays five categories: AD DS, DHCP, DNS, File and Storage Services, and Local Server, each with a count of 1 and a list of associated features like Manageability, Events, Services, Performance, and BPA results.

Primary DNS

The screenshot shows the DNS Manager console with the PrimaryDC zone selected. The left pane shows the hierarchy: DNS > PrimaryDC > Forward Lookup Zones > sirs.local. The right pane displays a table of DNS records.

Name	Type	Data	Timestamp
_msdcs			
_sites			
_tcp			
_udp			
DomainDnsZones			
ForestDnsZones			
(same as parent folder)	Start of Authority (SOA)	[87], primarydc.sirs.local, ...	static
(same as parent folder)	Name Server (NS)	secondarydc.sirs.local.	static
(same as parent folder)	Name Server (NS)	primarydc.sirs.local.	static
(same as parent folder)	Host (A)	10.3.1.5	11/8/2018 3:00:00 AM
(same as parent folder)	Host (A)	10.3.1.4	11/8/2018 4:00:00 AM
Client1	Host (A)	10.3.1.8	11/11/2018 9:00:00 PM
ClientUser1	Host (A)	10.3.1.7	11/8/2018 7:00:00 AM
primarydc	Host (A)	10.3.1.4	static
ReadOnlyDC	Host (A)	10.3.1.6	11/8/2018 4:00:00 AM
SecondaryDC	Host (A)	10.3.1.5	static

DHCP

By default, the updated version of Azure takes full control of the DHCP service and issues IP address based on the subnet scope given. If the default DHCP controlled by Azure fails, then my DHCP configured in the Primary Domain Controller will take over.

The screenshot shows the DHCP console with the primarydc.sirs.local server selected. The left pane shows the hierarchy: DHCP > primarydc.sirs.local > IPv4 > Scope [10.3.0.0] SirsClientsFrontEnd. The right pane displays a table of DHCP scopes.

Start IP Address	End IP Address	Description	Actions
10.3.0.20	10.3.0.240	Address range	Address Pool More Actions

DHCP

File Action View Help

← → ↻ ↺ ↻ ? ⚙

DHCP	Start IP Address	End IP Address	Description	Actions
<ul style="list-style-type: none"> primarydc.sirs.local <ul style="list-style-type: none"> IPv4 <ul style="list-style-type: none"> Scope [10.3.0.0] SirsClientsFrontEnd <ul style="list-style-type: none"> Address Pool Address Leases Reservations Scope Options Policies Scope [10.3.1.0] SirsClientsBackEnd <ul style="list-style-type: none"> Address Pool Address Leases Reservations Scope Options Policies Server Options Policies Filters IPv6 	10.3.1.20	10.3.1.240	Address range	Address Pool ▲ More Actions ►

DHCP

File Action View Help

← → ↻ ↺ ↻ ? ⚙

DHCP	Option Name	Vendor	Value	Actions
<ul style="list-style-type: none"> primarydc.sirs.local <ul style="list-style-type: none"> IPv4 <ul style="list-style-type: none"> Scope [10.3.0.0] SirsClientsFrontEnd <ul style="list-style-type: none"> Address Pool Address Leases Reservations Scope Options Policies Scope [10.3.1.0] SirsClientsBackEnd <ul style="list-style-type: none"> Address Pool Address Leases Reservations Scope Options Policies Server Options Policies Filters IPv6 	003 Router 006 DNS Servers 015 DNS Domain Name	Standard Standard Standard	10.3.0.1 10.3.1.4, 10.3.1.5 sirs.local	Scope Options ▲ More Actions ►

Secondary Domain Controller Dashboard

Server Manager Dashboard

WELCOME TO SERVER MANAGER

QUICK START

- 1 Configure this local server
- 2 Add roles and features
- 3 Add other servers to manage
- 4 Create a server group
- 5 Connect this server to cloud services

WHAT'S NEW

LEARN MORE

ROLES AND SERVER GROUPS
Roles: 3 | Server groups: 1 | Servers total: 1

AD DS	DNS	File and Storage Services	Local Server	All Servers
1	1	1	1	1
<ul style="list-style-type: none"> Manageability Events Services Performance BPA results 	<ul style="list-style-type: none"> Manageability Events Services Performance BPA results 	<ul style="list-style-type: none"> Manageability Events Services Performance BPA results 	<ul style="list-style-type: none"> Manageability Events 2 Services Performance BPA results 	<ul style="list-style-type: none"> Manageability Events 2 Services Performance BPA results
			11/14/2018 4:18 AM	11/14/2018 4:18 AM

Secondary DNS

DNS Manager

File Action View Help

DNS

- SECONDARYDC
 - Forward Lookup Zones
 - _msdcs.sirs.local
 - sirs.local
 - _msdcs
 - _sites
 - _tcp
 - _udp
 - DomainDnsZones
 - ForestDnsZones
 - Reverse Lookup Zones
 - Trust Points
 - Conditional Forwarders

Name	Type	Data	Timestamp
_msdcs			
_sites			
_tcp			
_udp			
DomainDnsZones			
ForestDnsZones			
(same as parent folder)	Start of Authority (SOA)	[84], secondarydc.sirs.local...	static
(same as parent folder)	Name Server (NS)	primarydc.sirs.local.	static
(same as parent folder)	Name Server (NS)	secondarydc.sirs.local.	static
(same as parent folder)	Host (A)	10.3.1.4	11/8/2018
(same as parent folder)	Host (A)	10.3.1.5	11/8/2018
ClientUser1	Host (A)	10.3.1.7	11/8/2018
primarydc	Host (A)	10.3.1.4	static
ReadOnlyDC	Host (A)	10.3.1.6	11/8/2018
secondarydc	Host (A)	10.3.1.5	static

Read-Only Domain Controller

The screenshot shows the Server Manager console with the 'AD DS' role selected. The 'SERVERS' section displays a table of servers, and the 'EVENTS' section shows a list of events.

Server Name	IPv4 Address	Manageability	Last Update	Windows Activation
READONLYDC	10.3.1.6	Online - Performance counters not started	11/14/2018 4:37:43 AM	00376-40000-00000-AA947 (Activated)

Server Name	ID	Severity	Source	Log	Date and Time
READONLYDC	1308	Warning	Microsoft-Windows-ActiveDirectory_DomainService	Directory Service	11/14/2018 4:31:01 AM
READONLYDC	4614	Warning	DFS	DFS Replication	11/14/2018 4:26:16 AM
READONLYDC	2886	Warning	Microsoft-Windows-ActiveDirectory_DomainService	Directory Service	11/14/2018 4:26:01 AM
READONLYDC	2170	Warning	Microsoft-Windows-ActiveDirectory_DomainService	Directory Service	11/14/2018 4:25:50 AM
READONLYDC	1539	Warning	Microsoft-Windows-ActiveDirectory_DomainService	Directory Service	11/14/2018 4:25:48 AM

Group Policy Objects providing Home drive mapping at login. For all the users in the WestRegionUsers Organization Unit the Folder Redirect Path is on my Primary Domain Controller.

The screenshot shows the Group Policy Management console with the 'FolderRedirect GPO' selected. The 'Folder Redirection' policy is configured to redirect the 'Documents' folder to the path: \\PrimaryDC\FolderRedirect\$\%USERNAME%\Documents.

FolderRedirect GPO

Scope: Details Settings Delegation Status

These groups and users have the specified permission for this GPO

Name	Allowed Permissions	Inherited
NT AUTHORITY\Authenticated Users	Read (from Security Filtering)	No
NT AUTHORITY\ENTERPRISE DOMAIN CONTROLLERS	Read	No
NT AUTHORITY\SYSTEM	Edit settings, delete, modify security	No
SIRS\Domain Admins	Edit settings, delete, modify security	No
SIRS\Enterprise Admins	Edit settings, delete, modify security	No

Computer Configuration (Enabled)

No settings defined.

User Configuration (Enabled)

Policies

Windows Settings

Folder Redirection

Documents

Setting: Basic (Redirect everyone's folder to the same location)

Path: \\PrimaryDC\FolderRedirect\$\%USERNAME%\Documents

Options

Grant user exclusive rights to Documents	Enabled
Move the contents of Documents to the new location	Enabled
Also apply redirection policy to Windows 2000, Windows 2000 server, Windows XP, and Windows Server 2003 operating systems	Disabled
Policy Removal Behavior	Leave contents
Configuration Control	Group Policy
Primary Computer Evaluation	Not evaluated because primary computer policy is not enabled