

TestOut[®]

TestOut Server Pro 2016: Networking – English 4.0.x

Objective Mappings:

TestOut Server Pro 2016: Networking
Microsoft 70-741

Contents

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Objective Mapping: LabSim Section to TestOut Server Pro 2016: Networking Objective

The TestOut Server Pro 2016: Networking course covers the following TestOut Server Pro 2016: Networking exam objectives:

Section	Title	Objectives
0.0	Introduction	
0.1	Server Pro 2016: Networking Introduction	
0.2	The TestOut Simulator	
1.0	DNS	
1.1	DNS Overview and Installation	1.1 Install and Configure DNS 1.1.1 Install and configure forwarders
1.2	DNS Name Resolution	1.1 Install and Configure DNS 1.1.1 Install and configure forwarders 1.1.2 Configure Root Hints
1.3	Primary and Secondary DNS Zones	1.1 Install and Configure DNS 1.1.1 Install and configure forwarders 1.2 Create and configure DNS zones and records 1.2.1 Create and configure DNS zones
1.4	Zone Properties and Auxiliary DNS Zones	1.1 Install and Configure DNS 1.1.2 Configure Root Hints

		<p>1.2 Create and configure DNS zones and records</p> <p>1.2.2 Create and configure stub zones 1.2.3 Create and configure DNS records</p>
1.5	DNS Records	<p>1.2 Create and configure DNS zones and records</p> <p>1.2.1 Create and configure DNS zones 1.2.3 Create and configure DNS records</p>
1.6	DNS Record Management	<p>1.2 Create and configure DNS zones and records</p> <p>1.2.3 Create and configure DNS records</p>
1.7	Single-Label Name Resolution	<p>1.1 Install and Configure DNS</p> <p>1.1.7 Configure Global Settings</p>
1.8	DNS Server Properties	<p>1.1 Install and Configure DNS</p> <p>1.1.6 Configure DNS logging 1.1.7 Configure Global Settings</p> <p>1.2 Create and configure DNS zones and records</p> <p>1.2.4 Configure zone scavenging</p>
1.9	DNS Protection	<p>1.1 Install and Configure DNS</p> <p>1.1.3 Configure DNSSEC 1.1.4 Configure DNS Socket Pool 1.1.5 Configure delegated administration</p>
1.10	DNS Policies	

1.11	DNS Monitoring and Troubleshooting	1.2 Create and configure DNS zones and records 1.2.3 Create and configure DNS records
2.0	TCP/IP	
2.1	IPv4 Addresses	3.1 Configure TCP/IP 3.1.1 Configure IPv4 settings
2.2	IPv6 Addresses	3.1 Configure TCP/IP 3.1.2 Configure IPv6 settings
2.3	IPv4-to-IPv6 Transitional Technologies	
3.0	DHCP	
3.1	Install DHCP	2.1 Install and configure DHCP 2.1.1 Install and authorize DHCP servers 2.1.2 Configure DHCP scopes and options
3.2	DHCP Scopes	2.1 Install and configure DHCP 2.1.2 Configure DHCP scopes and options 2.1.3 Configure DHCP exclusions and reservations
3.3	DHCP Options	2.1 Install and configure DHCP 2.1.2 Configure DHCP scopes and options
3.4	Advanced Scopes	2.1 Install and configure DHCP 2.1.1 Install and authorize DHCP servers

		2.1.2 Configure DHCP scopes and options 2.1.4 Create and configure superscopes
3.5	Centralized DHCP and PXE	2.1 Install and configure DHCP 2.1.5 Configure DHCP Relay Agent
3.6	DHCP Policies	
3.7	Advanced DHCP Management	2.1 Install and configure DHCP 2.1.2 Configure DHCP scopes and options 2.1.6 Configure high availability using DHCP failover
3.8	Maintain the DHCP Database	
3.9	Troubleshooting DHCP	2.1 Install and configure DHCP 2.1.7 Troubleshoot DHCP
4.0	IP Address Management (IPAM)	
4.1	IPAM Installation	3.2 Implement IPAM 3.2.1 Configure server discovery 3.2.2 Create and Manage IP blocks and ranges
4.2	IPAM DNS and DHCP	3.2 Implement IPAM 3.2.3 Manage DHCP server properties using IPAM 3.2.4 Manage DNS server properties using IPAM
4.3	Advanced IPAM Administration and Auditing	3.2 Implement IPAM 3.2.3 Manage DHCP server properties using IPAM

		<p>3.2.4 Manage DNS server properties using IPAM</p> <p>3.2.5 Delegate administration for DNS and DHCP using RBAC</p>
5.0	Routing and Remote Access (RRAS)	
5.1	Routing	<p>2.2 Implement Routing</p> <p>2.2.1 Enable LAN routing</p> <p>2.2.2 Implement NAT</p> <p>4.2 Implement Remote Access</p> <p>4.2.1 Enable Remote Access</p>
5.2	Install VPN	<p>2.2 Implement Routing</p> <p>2.2.1 Enable LAN routing</p> <p>4.2 Implement Remote Access</p> <p>4.2.1 Enable Remote Access</p> <p>4.2.2 Implement Virtual Private Network (VPN)</p> <p>4.2.3 Configure a VPN server</p>
5.3	VPNs	<p>4.2 Implement Remote Access</p> <p>4.2.1 Enable Remote Access</p> <p>4.2.2 Implement Virtual Private Network (VPN)</p> <p>4.2.3 Configure a VPN server</p>
5.4	Connection Profiles	<p>4.2 Implement Remote Access</p> <p>4.2.5 Configure RADIUS</p> <p>4.2.6 Create a Network Access Policy</p>

6.0	DirectAccess (DA)	
6.1	DirectAccess Installation	<p>4.1 Implement Direct Access</p> <p>4.1.1 Install and configure DirectAccess</p> <p>4.2 Implement Remote Access</p> <p>4.2.1 Enable Remote Access</p>
6.2	DirectAccess Troubleshooting	
7.0	Network Policy Server (NPS)	
7.1	Install Network Policy Server (NPS)	<p>4.2 Implement Remote Access</p> <p>4.2.4 Install and configure NPS 4.2.5 Configure RADIUS</p>
7.2	NPS Templates	<p>4.2 Implement Remote Access</p> <p>4.2.4 Install and configure NPS 4.2.5 Configure RADIUS 4.2.6 Create a Network Access Policy</p>
7.3	NPS Network Policies	<p>4.2 Implement Remote Access</p> <p>4.2.4 Install and configure NPS 4.2.5 Configure RADIUS 4.2.6 Create a Network Access Policy</p>
7.4	NPS Connection Request Policies	<p>4.2 Implement Remote Access</p> <p>4.2.5 Configure RADIUS 4.2.6 Create a Network Access Policy</p>

7.5	RADIUS Accounting	4.2 Implement Remote Access 4.2.5 Configure RADIUS
7.6	Manage NPS Policies	4.2 Implement Remote Access 4.2.5 Configure RADIUS
8.0	Distributed File System (DFS) and BranchCache	
8.1	Distributed File System (DFS) Namespaces	5.1 Implement Distributed File Systems 5.1.1 Install and configure Distributed File System (DFS)
8.2	Configure DFS Replication	5.1 Implement Distributed File Systems 5.1.1 Install and configure Distributed File System (DFS)
8.3	Optimize DFS Replication	5.1 Implement Distributed File Systems 5.1.1 Install and configure Distributed File System (DFS)
8.4	Manage the DFS Replication Database	5.1 Implement Distributed File Systems 5.1.1 Install and configure Distributed File System (DFS)
8.5	BranchCache Installation and Configuration	5.2 Implement Branch Office Solutions 5.2.1 Enable and configure BranchCache
9.0	High Performance Network Solutions	
9.1	NIC Teaming and Switch Embedded Teaming (SET)	5.3 Implement Advanced Networking Solutions

		5.3.1 Implement NIC Teaming
9.2	QoS with Data Center Bridging (DCB)	
9.3	Virtual Machine Queue (VMQ) and Receive Side Scaling (RSS)	5.3 Implement Advanced Networking Solutions 5.3.2 Enable and configure Receive Side Scaling (RSS) 5.3.3 Enable and configure Virtual Machine Multi-Queue (VMMQ)
9.4	SMB Direct and SMB Multichannel	
9.5	Single-Root IO Virtualization (SR-IOV)	
10.0	Implement Software-Defined Networking (SDN)	
10.1	Implement SDN	5.3 Implement Advanced Networking Solutions 5.3.4 Determine deployment scenarios for SDN
10.2	Implement Hyper-V Network Virtualization (HNV)	5.3 Implement Advanced Networking Solutions 5.3.5 Determine deployment scenarios for HNV
10.3	Implement Software Load Balancer (SLB)	
10.4	Implement Windows Server Gateways	
10.5	Implement Data Center Firewall Policies	
A.0	TestOut Server Pro 2016: Networking - Practice Exams	
A.1	Prepare for Certification	

A.2	TestOut Server Pro 2016: Networking Question Review	
B.0	Microsoft 70-741 Practice Exams	
B.1	Prepare for Certification	
B.2	Microsoft 70-741 Question Review (20 Random Questions)	
B.3	Microsoft 70-741 Question Review (All Questions)	

Objective Mapping: TestOut Server Pro 2016: Networking Objective to LabSim Section

The TestOut Server Pro 2016: Networking course and certification exam cover the following TestOut Server Pro 2016: Networking objectives:

#	Domain	Section
1.0	Domain Name Service	
1.1	Install and Configure DNS 1.1.1 Install and configure forwarders 1.1.2 Configure Root Hints 1.1.3 Configure DNSSEC 1.1.4 Configure DNS Socket Pool 1.1.5 Configure delegated administration 1.1.6 Configure DNS logging 1.1.7 Configure Global Settings	1.1, 1.2, 1.3, 1.4, 1.7, 1.8, 1.9
1.2	Create and configure DNS zones and records 1.2.1 Create and configure DNS zones 1.2.2 Create and configure stub zones 1.2.3 Create and configure DNS records 1.2.4 Configure zone scavenging	1.3, 1.4, 1.5, 1.6, 1.8, 1.11
2.0	Network Management	
2.1	Install and configure DHCP 2.1.1 Install and authorize DHCP servers 2.1.2 Configure DHCP scopes and options 2.1.3 Configure DHCP exclusions and reservations 2.1.4 Create and configure superscopes 2.1.5 Configure DHCP Relay Agent 2.1.6 Configure high availability using DHCP failover 2.1.7 Troubleshoot DHCP	3.1, 3.2, 3.3, 3.4, 3.5, 3.7, 3.9

2.2	<p>Implement Routing</p> <p>2.2.1 Enable LAN routing 2.2.2 Implement NAT</p>	5.1, 5.2
3.0	IP Address Management	
3.1	<p>Configure TCP/IP</p> <p>3.1.1 Configure IPv4 settings 3.1.2 Configure IPv6 settings</p>	2.1, 2.2
3.2	<p>Implement IPAM</p> <p>3.2.1 Configure server discovery 3.2.2 Create and Manage IP blocks and ranges 3.2.3 Manage DHCP server properties using IPAM 3.2.4 Manage DNS server properties using IPAM 3.2.5 Delegate administration for DNS and DHCP using RBAC</p>	4.1, 4.2, 4.3
4.0	Direct and Remote Access	
4.1	<p>Implement Direct Access</p> <p>4.1.1 Install and configure DirectAccess</p>	6.1
4.2	<p>Implement Remote Access</p> <p>4.2.1 Enable Remote Access 4.2.2 Implement Virtual Private Network (VPN) 4.2.3 Configure a VPN server 4.2.4 Install and configure NPS 4.2.5 Configure RADIUS 4.2.6 Create a Network Access Policy</p>	<p>5.1, 5.2, 5.3, 5.4 6.1 7.1, 7.2, 7.3, 7.4, 7.5, 7.6</p>

5.0	Network Services	
5.1	Implement Distributed File Systems 5.1.1 Install and configure Distributed File System (DFS)	8.1, 8.2, 8.3, 8.4
5.2	Implement Branch Office Solutions 5.2.1 Enable and configure BranchCache	8.5
5.3	Implement Advanced Networking Solutions 5.3.1 Implement NIC Teaming 5.3.2 Enable and configure Receive Side Scaling (RSS) 5.3.3 Enable and configure Virtual Machine Multi-Queue (VMMQ) 5.3.4 Determine deployment scenarios for SDN 5.3.5 Determine deployment scenarios for HNV	9.1, 9.3 10.1, 10.2

Objective Mapping: LabSim Section to Microsoft 70-741 Objective

The TestOut Server Pro 2016: Networking course covers the following TestOut Server Pro 2016: Networking exam objectives:

Section	Title	Objectives
0.0	Introduction	
0.1	Server Pro 2016: Networking Introduction	
0.2	The TestOut Simulator	
1.0	DNS	
1.1	DNS Overview and Installation	1.1 Install and Configure DNS 1.1.1 Install and configure forwarders
1.2	DNS Name Resolution	1.1 Install and Configure DNS 1.1.1 Install and configure forwarders 1.1.2 Configure Root Hints
1.3	Primary and Secondary DNS Zones	1.1 Install and Configure DNS 1.1.1 Install and configure forwarders 1.2 Create and configure DNS zones and records 1.2.1 Create and configure DNS zones
1.4	Zone Properties and Auxiliary DNS Zones	1.1 Install and Configure DNS 1.1.2 Configure Root Hints

		<p>1.2 Create and configure DNS zones and records</p> <p>1.2.2 Create and configure stub zones 1.2.3 Create and configure DNS records</p>
1.5	DNS Records	<p>1.2 Create and configure DNS zones and records</p> <p>1.2.1 Create and configure DNS zones 1.2.3 Create and configure DNS records</p>
1.6	DNS Record Management	<p>1.2 Create and configure DNS zones and records</p> <p>1.2.3 Create and configure DNS records</p>
1.7	Single-Label Name Resolution	<p>1.1 Install and Configure DNS</p> <p>1.1.7 Configure Global Settings</p>
1.8	DNS Server Properties	<p>1.1 Install and Configure DNS</p> <p>1.1.6 Configure DNS logging 1.1.7 Configure Global Settings</p> <p>1.2 Create and configure DNS zones and records</p> <p>1.2.4 Configure zone scavenging</p>
1.9	DNS Protection	<p>1.1 Install and Configure DNS</p> <p>1.1.3 Configure DNSSEC 1.1.4 Configure DNS Socket Pool 1.1.5 Configure delegated administration</p>
1.10	DNS Policies	

1.11	DNS Monitoring and Troubleshooting	1.2 Create and configure DNS zones and records 1.2.3 Create and configure DNS records
2.0	TCP/IP	
2.1	IPv4 Addresses	3.1 Configure TCP/IP 3.1.1 Configure IPv4 settings
2.2	IPv6 Addresses	3.1 Configure TCP/IP 3.1.2 Configure IPv6 settings
2.3	IPv4-to-IPv6 Transitional Technologies	
3.0	DHCP	
3.1	Install DHCP	2.1 Install and configure DHCP 2.1.1 Install and authorize DHCP servers 2.1.2 Configure DHCP scopes and options
3.2	DHCP Scopes	2.1 Install and configure DHCP 2.1.2 Configure DHCP scopes and options 2.1.3 Configure DHCP exclusions and reservations
3.3	DHCP Options	2.1 Install and configure DHCP 2.1.2 Configure DHCP scopes and options
3.4	Advanced Scopes	2.1 Install and configure DHCP 2.1.1 Install and authorize DHCP servers

		2.1.2 Configure DHCP scopes and options 2.1.4 Create and configure superscopes
3.5	Centralized DHCP and PXE	2.1 Install and configure DHCP 2.1.5 Configure DHCP Relay Agent
3.6	DHCP Policies	
3.7	Advanced DHCP Management	2.1 Install and configure DHCP 2.1.2 Configure DHCP scopes and options 2.1.6 Configure high availability using DHCP failover
3.8	Maintain the DHCP Database	
3.9	Troubleshooting DHCP	2.1 Install and configure DHCP 2.1.7 Troubleshoot DHCP
4.0	IP Address Management (IPAM)	
4.1	IPAM Installation	3.2 Implement IPAM 3.2.1 Configure server discovery 3.2.2 Create and Manage IP blocks and ranges
4.2	IPAM DNS and DHCP	3.2 Implement IPAM 3.2.3 Manage DHCP server properties using IPAM 3.2.4 Manage DNS server properties using IPAM
4.3	Advanced IPAM Administration and Auditing	3.2 Implement IPAM 3.2.3 Manage DHCP server properties using IPAM

		<p>3.2.4 Manage DNS server properties using IPAM</p> <p>3.2.5 Delegate administration for DNS and DHCP using RBAC</p>
5.0	Routing and Remote Access (RRAS)	
5.1	Routing	<p>2.2 Implement Routing</p> <p>2.2.1 Enable LAN routing</p> <p>2.2.2 Implement NAT</p> <p>4.2 Implement Remote Access</p> <p>4.2.1 Enable Remote Access</p>
5.2	Install VPN	<p>2.2 Implement Routing</p> <p>2.2.1 Enable LAN routing</p> <p>4.2 Implement Remote Access</p> <p>4.2.1 Enable Remote Access</p> <p>4.2.2 Implement Virtual Private Network (VPN)</p> <p>4.2.3 Configure a VPN server</p>
5.3	VPNs	<p>4.2 Implement Remote Access</p> <p>4.2.1 Enable Remote Access</p> <p>4.2.2 Implement Virtual Private Network (VPN)</p> <p>4.2.3 Configure a VPN server</p>
5.4	Connection Profiles	<p>4.2 Implement Remote Access</p> <p>4.2.5 Configure RADIUS</p> <p>4.2.6 Create a Network Access Policy</p>

6.0	DirectAccess (DA)	
6.1	DirectAccess Installation	4.1 Implement Direct Access 4.1.1 Install and configure DirectAccess 4.2 Implement Remote Access 4.2.1 Enable Remote Access
6.2	DirectAccess Troubleshooting	
7.0	Network Policy Server (NPS)	
7.1	Install Network Policy Server (NPS)	4.2 Implement Remote Access 4.2.4 Install and configure NPS 4.2.5 Configure RADIUS
7.2	NPS Templates	4.2 Implement Remote Access 4.2.4 Install and configure NPS 4.2.5 Configure RADIUS 4.2.6 Create a Network Access Policy
7.3	NPS Network Policies	4.2 Implement Remote Access 4.2.4 Install and configure NPS 4.2.5 Configure RADIUS 4.2.6 Create a Network Access Policy
7.4	NPS Connection Request Policies	4.2 Implement Remote Access 4.2.5 Configure RADIUS 4.2.6 Create a Network Access Policy

7.5	RADIUS Accounting	4.2 Implement Remote Access 4.2.5 Configure RADIUS
7.6	Manage NPS Policies	4.2 Implement Remote Access 4.2.5 Configure RADIUS
8.0	Distributed File System (DFS) and BranchCache	
8.1	Distributed File System (DFS) Namespaces	5.1 Implement Distributed File Systems 5.1.1 Install and configure Distributed File System (DFS)
8.2	Configure DFS Replication	5.1 Implement Distributed File Systems 5.1.1 Install and configure Distributed File System (DFS)
8.3	Optimize DFS Replication	5.1 Implement Distributed File Systems 5.1.1 Install and configure Distributed File System (DFS)
8.4	Manage the DFS Replication Database	5.1 Implement Distributed File Systems 5.1.1 Install and configure Distributed File System (DFS)
8.5	BranchCache Installation and Configuration	5.2 Implement Branch Office Solutions 5.2.1 Enable and configure BranchCache
9.0	High Performance Network Solutions	
9.1	NIC Teaming and Switch Embedded Teaming (SET)	5.3 Implement Advanced Networking Solutions

		5.3.1 Implement NIC Teaming
9.2	QoS with Data Center Bridging (DCB)	
9.3	Virtual Machine Queue (VMQ) and Receive Side Scaling (RSS)	5.3 Implement Advanced Networking Solutions 5.3.2 Enable and configure Receive Side Scaling (RSS) 5.3.3 Enable and configure Virtual Machine Multi-Queue (VMMQ)
9.4	SMB Direct and SMB Multichannel	
9.5	Single-Root IO Virtualization (SR-IOV)	
10.0	Implement Software-Defined Networking (SDN)	
10.1	Implement SDN	5.3 Implement Advanced Networking Solutions 5.3.4 Determine deployment scenarios for SDN
10.2	Implement Hyper-V Network Virtualization (HNV)	5.3 Implement Advanced Networking Solutions 5.3.5 Determine deployment scenarios for HNV
10.3	Implement Software Load Balancer (SLB)	
10.4	Implement Windows Server Gateways	
10.5	Implement Data Center Firewall Policies	
A.0	TestOut Server Pro 2016: Networking - Practice Exams	
A.1	Prepare for Certification	

A.2	TestOut Server Pro 2016: Networking Question Review	
B.0	Microsoft 70-741 Practice Exams	
B.1	Prepare for Certification	
B.2	Microsoft 70-741 Question Review (20 Random Questions)	
B.3	Microsoft 70-741 Question Review (All Questions)	

Objective Mapping: Microsoft 70-741 Objective to LabSim Section

The TestOut Server Pro 2016: Networking course and certification exam cover the following TestOut Server Pro 2016: Networking objectives:

The TestOut Server Pro 2016: Networking course and certification exam cover the following Microsoft Networking with Windows Server 2016 objectives:

#	Domain	Section
1.0	Implement Domain Name System (DNS)	
1.1	Install and configure DNS servers 1.1.1 Determine DNS installation requirements 1.1.2 Determine supported DNS deployment scenarios on Nano Server 1.1.3 Install DNS 1.1.4 Configure forwarders 1.1.5 Configure Root Hints 1.1.6 Configure delegation 1.1.7 Implement DNS policies 1.1.8 Configure DNS Server settings using Windows PowerShell 1.1.9 Configure Domain Name System Security Extensions (DNSSEC) 1.1.10 Configure DNS Socket Pool 1.1.11 Configure cache locking 1.1.12 Enable Response Rate Limiting 1.1.13 Configure DNS-based Authentication of Named Entities (DANE) 1.1.14 Configure DNS logging 1.1.15 Configure delegated administration 1.1.16 Configure recursion settings 1.1.17 Implement DNS performance tuning 1.1.18 Configure global settings	1.1, 1.2, 1.3, 1.4, 1.7, 1.8, 1.9, 1.10, 1.11
1.2	Create and configure DNS zones and records 1.2.1 Create primary zones 1.2.2 Configure Active Directory primary zones 1.2.3 Create and configure secondary zones 1.2.4 Create and configure stub zones 1.2.5 Configure a GlobalNames zone 1.2.6 Analyze zone-level statistics	1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.10, 1.11

	<ul style="list-style-type: none"> 1.2.7 Create and configure DNS Resource Records (RR) <ul style="list-style-type: none"> ○ 1.2.7.1 A records ○ 1.2.7.2 AAAA records ○ 1.2.7.3 PTR records ○ 1.2.7.4 SOA records ○ 1.2.7.5 NS records ○ 1.2.7.6 SRV records ○ 1.2.7.7 CNAME records ○ 1.2.7.8 MX records 1.2.8 Configure zone scavenging 1.2.9 Configure record options, including Time To Live (TTL) and weight 1.2.10 Configure round robin 1.2.11 Configure secure dynamic updates 1.2.12 Configure unknown record support 1.2.13 Use DNS audit events and analytical (query) events for auditing and troubleshooting 1.2.14 Configure Zone Scopes 1.2.15 Configure records in Zone Scopes 1.2.16 Configure policies for zones 	
2.0	Implement DHCP and IPAM	
2.1	<p>Install and configure DHCP</p> <ul style="list-style-type: none"> 2.1.1 Install and configure DHCP servers 2.1.2 Authorize a DHCP server 2.1.3 Create and configure scopes 2.1.4 Create and configure superscopes and multicast scopes 2.1.5 Configure a DHCP reservation 2.1.6 Configure DHCP options 2.1.7 Configure DNS options from within DHCP 2.1.8 Configure (DHCP) policies 2.1.9 Configure client and server for PXE boot 2.1.10 Configure DHCP Relay Agent 2.1.11 Implement IPv6 addressing using DHCPv6 2.1.12 Perform export and import of a DHCP server 2.1.13 Perform DHCP server migration 	3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.8
2.2	<p>Manage and maintain DHCP</p> <ul style="list-style-type: none"> 2.2.1 Configure a lease period 	3.7, 3.8, 3.9

	<ul style="list-style-type: none"> 2.2.2 Back up and restore the DHCP database 2.2.3 Configure high availability using DHCP failover 2.2.4 Configure DHCP name protection 2.2.5 Troubleshoot DHCP 	
2.3	<p>Implement and Maintain IP Address Management</p> <ul style="list-style-type: none"> 2.3.1 Provision IPAM manually or by using Group Policy 2.3.2 Configure server discovery 2.3.3 Create and manage IP blocks and ranges 2.3.4 Monitor utilization of IP address space 2.3.5 Migrate existing workloads to IPAM 2.3.6 Configure IPAM database storage using SQL Server 2.3.7 Determine scenarios for using IPAM with System Center Virtual Machine Manager for physical and virtual IP address space management 2.3.8 Manage DHCP server properties using IPAM 2.3.9 Configure DHCP scopes and options 2.3.10 Configure DHCP policies and failover 2.3.11 Manage DNS server properties using IPAM 2.3.12 Manage DNS zones and records 2.3.13 Manage DNS and DHCP servers in multiple Active Directory forests 2.3.14 Delegate administration for DNS and DHCP using role-based access control (RBAC) 2.3.15 Audit the changes performed on the DNS and DHCP servers 2.3.16 Audit the IPAM address usage trail 2.3.17 Audit DHCP lease events and user logon events 	4.1, 4.2, 4.3
3.0	Implement Network Connectivity and Remote Access Solutions	
3.1	<p>Implement network connectivity solutions</p> <ul style="list-style-type: none"> 3.1.1 Implement Network Address Translation (NAT) 3.1.2 Configure routing 	5.1, 5.2
3.2	<p>Implement virtual private network (VPN) and DirectAccess solutions</p> <ul style="list-style-type: none"> 3.2.1 Implement remote access and site-to-site (S2S) VPN solutions using remote access gateway 3.2.2 Configure different VPN protocol options 3.2.3 Configure authentication options 3.2.4 Configure VPN reconnect 	<p>5.2, 5.3, 5.4 6.1, 6.2 7.3</p>

	<ul style="list-style-type: none"> 3.2.5 Create and configure connection profiles 3.2.6 Determine when to use remote access VPN and site-to-site VPN and configure appropriate protocols 3.2.7 Install and configure DirectAccess 3.2.8 Implement (DirectAccess) server requirements 3.2.9 Implement (DirectAccess) client configuration 3.2.10 Troubleshoot DirectAccess 	
3.3	<p>Implement Network Policy Server (NPS)</p> <ul style="list-style-type: none"> 3.3.1 Configure a RADIUS server including RADIUS proxy 3.3.2 Configure RADIUS clients 3.3.3 Configure NPS templates 3.3.4 Configure RADIUS accounting 3.3.5 Configure (NPS) certificates 3.3.6 Configure (NPS) Connection Request Policies 3.3.7 Configure network policies for VPN and wireless and wired clients 3.3.8 Import and export NPS policies 	<p>5.4 7.1, 7.2, 7.3, 7.4, 7.5, 7.6</p>
4.0	Implement Core and Distributed Network Solutions	
4.1	<p>Implement IPv4 and IPv6 addressing</p> <ul style="list-style-type: none"> 4.1.1 Configure IPv4 addresses and options 4.1.2 Determine and configure appropriate IPv6 addresses 4.1.3 Configure IPv4 or IPv6 subnetting 4.1.4 Implement IPv6 stateless addressing 4.1.5 Configure interoperability between IPv4 and IPv6 by using ISATAP, 6to4, and Teredo scenarios 4.1.6 Configure Border Gateway Protocol (BGP) 4.1.7 Configure IPv4 and IPv6 routing 	<p>2.1, 2.2, 2.3 5.1</p>
4.2	<p>Implement Distributed File System (DFS) and Branch Office solutions</p> <ul style="list-style-type: none"> 4.2.1 Install and configure DFS namespaces 4.2.2 Configure DFS replication targets 4.2.3 Configure replication scheduling 4.2.4 Configure Remote Differential Compression (RDC) settings 4.2.5 Configure staging 4.2.6 Configure fault tolerance 4.2.7 Clone a Distributed File System Replication (DFSR) database 	<p>8.1, 8.2, 8.3, 8.4, 8.5</p>

	<p>4.2.8 Recover DFSR databases</p> <p>4.2.9 Optimize DFS Replication</p> <p>4.2.10 Install and configure BranchCache</p> <p>4.2.11 Implement distributed and hosted cache modes</p> <p>4.2.12 Implement BranchCache for web, file, and application servers</p> <p>4.2.13 Troubleshoot BranchCache</p>	
5.0	Implement an Advanced Network Infrastructure	
5.1	<p>Implement high performance network solutions</p> <p>5.1.1 Implement NIC Teaming or the Switch Embedded Teaming (SET) solution and identify when to use each</p> <p>5.1.2 Enable and configure Receive Side Scaling (RSS)</p> <p>5.1.3 Enable and configure network Quality of Service (QoS) with Data Center Bridging (DCB)</p> <p>5.1.4 Enable and configure SMB Direct on Remote Direct Memory Access (RDMA) enabled network adapters</p> <p>5.1.5 Configure SMB Multichannel</p> <p>5.1.6 Enable and configure virtual Receive Side Scaling (vRSS) on a Virtual Machine Queue (VMQ) capable network adapter</p> <p>5.1.7 Enable and configure Virtual Machine Multi-Queue (VMMQ)</p> <p>5.1.8 Enable and configure Single-Root I/O Virtualization (SR-IOV) on a supported network adapter</p>	9.1, 9.2, 9.3, 9.4, 9.5
5.2	<p>Determine scenarios and requirements for implementing Software Defined Networking (SDN)</p> <p>5.2.1 Determine deployment scenarios and network requirements for deploying SDN</p> <p>5.2.2 Determine requirements and scenarios for implementing Hyper-V Network Virtualization (HNV) using Network Virtualization Generic Route Encapsulation (NVGRE) encapsulation or Virtual Extensible LAN (VXLAN) encapsulation</p> <p>5.2.3 Determine scenarios for implementation of Software Load Balancer (SLB) for North-South and East-West load balancing</p> <p>5.2.4 Determine implementation scenarios for various types of Windows Server Gateways and their use</p> <ul style="list-style-type: none"> o 5.2.4.1 L3 o 5.2.4.2 GRE o 5.2.4.3 S2S <p>5.2.5 Determine requirements and scenarios for Datacenter firewall policies and network security groups</p>	10.1, 10.2, 10.3, 10.4, 10.5