



**Vendor: VMware**

**Exam Code: 2V0-21.20**

**Exam Name: Professional VMware vSphere 7.x**

**Version: Demo**

**QUESTION 1**

Which two components are core to vSphere? (Choose two.)

- A. ESXi
- B. vSAN
- C. vCenter Server
- D. vRealize Network Insight
- E. vRealize Operations Manager

**Correct Answer:** AC

**QUESTION 2**

In a vSphere High Availability (vSphere HA) cluster, which condition can be detected by datastore heartbeating? (Choose the best answer.)

- A. Fault tolerance virtual machine (VM) failover
- B. Network isolation
- C. Virtual machine (VM) disk failure
- D. Datastore All Paths Down (APD) event

**Correct Answer:** B

**QUESTION 3**

Which two storage technologies can an administrator use to deploy the Virtual Machine File System (VMFS)? (Choose two.)

- A. Fibre Channel storage
- B. vSAN storage
- C. Virtual Volumes storage
- D. NFS storage
- E. iSCSI storage

**Correct Answer:** AE

**QUESTION 4**

An IT department is decommissioning a storage array and tasks an administrator with removing a datastore from ESXi hosts. What is a prerequisite for unmounting the datastore? (Choose the best answer.)

- A. The datastore is NOT managed by Storage DRS.
- B. The datastore is NOT being used by vSphere High Availability heartbeating.
- C. The datastore is NOT referenced by a host profile.
- D. The datastore does NOT contain powered-off virtual machines.

**Correct Answer:** A

**QUESTION 5**

An administrator needs to configure Proactive High Availability (HA) in a vSphere environment so that virtual machines (VMs) do not run on any partially degraded hosts. The administrator would also like to see the recommendations before VMs are migrated. Which automation and remediation level should the administrator select? (Choose the best answer.)

- A. Automation Level - Manual Remediation Level - Quarantine mode
- B. Automation Level - Automated Remediation Level - Maintenance mode
- C. Automation Level - Manual Remediation Level - Maintenance mode
- D. Automation Level - Automated Remediation Level - Mixed mode

**Correct Answer: C**

**QUESTION 6**

Which solution can be used to automatically deploy a fully configured VMware software-defined data center (SDDC)? (Choose the best answer.)

- A. vCenter Server
- B. vRealize Suite
- C. vSphere Lifecycle Manager
- D. VMware Cloud Foundation

**Correct Answer: B**

**QUESTION 7**

An administrator is configuring ESXi host behavior before and during the remediation process. Which remediation setting is supported only on select hardware platforms? (Choose the best answer.)

- A. VM migration
- B. HA admission control
- C. Maintenance mode failures
- D. Quick Boot

**Correct Answer: D**

**QUESTION 8**

An administrator is utilizing Network I/O Control (NIOC) to allocate bandwidth utilization on a physical 10 Gbps adapter. What is the maximum amount of bandwidth that can be reserved? (Choose the best answer.)

- A. 2.5 Gbps
- B. 10 Gbps
- C. 5.0 Gbps
- D. 7.5 Gbps

**Correct Answer: D**

### QUESTION 9

What are two supported ESXi boot options? (Choose two.)

- A. NFS
- B. iSCSI
- C. vSAN
- D. SAN
- E. vSphere Virtual Volumes

**Correct Answer:** BD

**Explanation:**

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.storage.doc/GUID-2A66A330-A9E5-460B-8982-54A1B1C38C02.html>

### QUESTION 10

Refer to the exhibit. An administrator is consistently receiving an alarm regarding a CPU performance issue; however, there is NO CPU issue identified. What can the administrator do to make sure the alarm is triggered when there is an actual CPU performance issue? (Choose the best answer.)

The screenshot shows an 'Alarm Rule1' configuration window. Under the 'IF' section, the condition is 'VM CPU Ready Time' is below '1000 ms for 15 min'. Under the 'THEN' section, the action is 'Trigger the alarm and' set to 'Show as Critical', and 'Send email notifications' is disabled. At the bottom, there are three buttons: 'ADD ANOTHER RULE', 'DUPLICATE RULE', and 'REMOVE RULE'.

- A. Change 'VM CPU Ready Time' to 'VM Memory Usage.'
- B. Change 'Show as Critical' to 'Show as Warning.'
- C. Change 'VM CPU Ready Time' to 'VM CPU Usage.'
- D. Change 'is below' to 'is above.'

**Correct Answer:** D

**Explanation:**

<https://www.actualtechmedia.com/wp-content/uploads/2013/11/demystifying-cpu-ready.pdf>

**QUESTION 11**

How does vSphere handle memory allocation during the instant clone process? (Choose the best answer.)

- A. The first child virtual machine serves as a memory snapshot for any subsequent child virtual machines.
- B. An identical clone of the parent virtual machine's memory is created for each child virtual machine
- C. Memory is shared among all child virtual machines using a delta disk.
- D. A unique memory pool is created per child virtual machine using copy-on-write.

**Correct Answer:** D

**Explanation:**

<http://www.yellow-bricks.com/2018/05/01/instant-clone-vsphere-67/>

**QUESTION 12**

When deploying a vCenter Server Appliance, which two single sign-on (SSO)-related options are presented to an administrator? (Choose two.)

- A. Create a vCenter Enhanced Linked Mode group
- B. Create a vCenter Single Sign-On domain
- C. Join an existing vCenter Single Sign-On domain
- D. Repoint to another domain
- E. Reset Single Sign-On password

**Correct Answer:** BC

**QUESTION 13**

A company has one corporate datacenter (C1) and one regional datacenter (R1). There is a vCenter Server in each location. An administrator wants a central library available to C1 and R1 for all templates and ISO images. Which two steps must the administrator take to configure the content library feature to meet this requirement? (Choose two.)

- A. Create a published content library on C1.
- B. Create a local content library on R1.
- C. Create a local content library on C1.
- D. Create a subscribed content library on C1.
- E. Create a subscribed content library on R1.

**Correct Answer:** AE

**QUESTION 14**

An administrator is trying to configure vCenter Single Sign-On from the vSphere Client but does NOT have permission. Which role is required in order to configure vCenter Single Sign-On? (Choose the best answer.)

- A. vCenter Single Sign-On Administrator
- B. vCenter Administrator
- C. vCenter Server Appliance Root
- D. vCenter Power User

**Correct Answer:** A

**QUESTION 15**

An administrator is investigating the reason for a virtual machine restarting. In the vmware.log file, the administrator finds the following error:

```
svga | I120: WinBSOD: ( 1) 'A problem has been detected and Windows has
been shut down to prevent damage'
svga | I120: WinBSOD: ( 2) 'to your computer.'
svga | I120: WinBSOD: ( 4) 'If this is the first time you've seen this
Stop error screen,'
svga | I120: WinBSOD: ( 5) 'restart your computer. If this screen
appears again, follow'
svga | I120: WinBSOD: ( 6) 'these steps:'
svga | I120: WinBSOD: ( 8) 'Disable or uninstall any anti-virus, disk
defragmentation'
svga | I120: WinBSOD: ( 9) 'or backup utilities. Check your hard drive
configuration,'
svga | I120: WinBSOD: (10) 'and check for any updated drivers. Run
CHKDSK /F to check'
svga | I120: WinBSOD: (11) 'for hard drive corruption, and then restart
your computer.'
svga | I120: WinBSOD: (13) 'Technical information:'
svga | I120: WinBSOD: (15) '*** STOP: 0x00000024
(0x000000000001904FB, 0xFFFFF880069B2CE8, 0xFFFFF880069B2540,0'
svga | I120: WinBSOD: (16) 'xxFFFFF880014F5FA2)
```

What is a likely cause of this virtual machine restart? (Choose the best answer.)

- A. Guest operating system fault
- B. User or API request to shut down guest operating system
- C. High Availability
- D. User or API request to restart guest operating system

**Correct Answer:** A

**QUESTION 16**

Which tool is used to monitor the vCenter Server Appliance resources? (Choose the best answer.)

- A. vimtop
- B. esxtop
- C. esxcli
- D. vmstat

**Correct Answer:** A

### QUESTION 17

Which virtual disk option allows a virtual machine to consume the minimum storage capacity?  
(Choose the best answer.)

- A. Independent persistent
- B. Lazy-zeroed thick-provisioned
- C. Eager-zeroed thick-provisioned
- D. Thin-provisioned

**Correct Answer: D**

#### Explanation:

<https://docs.vmware.com/en/VMware-vSphere/7.0/com.vmware.vsphere.storage.doc/GUID-8204A8D7-25B6-4DE2-A227-408C158A31DE.html>

### QUESTION 18

An administrator is troubleshooting a recent failure and finds the following error messages:

```
The guest OS has reported an error during quiescing. The error code was: 5 The error message was:
Asynchronous operation failed: >VssSyncStart
The guest OS has reported an error during quiescing. The error code was: 5 The error message was:
'VssSyncStart' operation failed: The >system cannot find the file specified. (0x80070002)
```

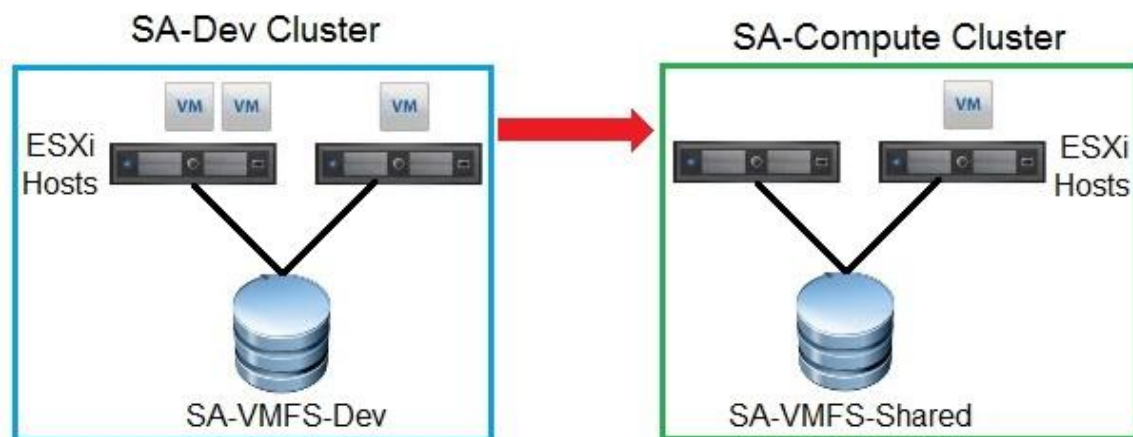
Which action has failed, thus resulting in these errors? (Choose the best answer.)

- A. Virtual machine power off
- B. Virtual machine snapshot
- C. Virtual machine migration
- D. Virtual machine reconfiguration

**Correct Answer: B**

### QUESTION 19

Refer to the exhibit. Which two migration methods can an administrator use to move virtual machines from the SA-Dev cluster to the SA-Compute cluster? (Choose two.)



- A. Cold migration of compute resource only

- B. Cold migration of storage only
- C. Hot migration of compute resource and storage resource
- D. Hot migration of compute resource only
- E. Cold migration of compute resource and storage resource

**Correct Answer:** CE

**QUESTION 20**

vCenter High Availability (HA) protects vCenter Server against host and hardware failures. What is the minimum number of ESXi hosts required to enable this capability? (Choose the best answer.)

- A. 5
- B. 7
- C. 1
- D. 3

**Correct Answer:** D

**QUESTION 21**

Which action is supported over a VMkernel vMotion TCP/IP stack? (Choose the best answer.)

- A. Hot migrations
- B. Fault tolerance protection
- C. Virtual machine cloning
- D. Snapshot creation

**Correct Answer:** B

**QUESTION 22**

A virtual machine with a single 100 GB virtual machine disk file has a single 20 GB snapshot. The virtual machine is powered off. How much additional free space on the datastore is required to delete the snapshot, committing the snapshot delta disk to the base disk? (Choose the best answer.)

- A. 0 GB
- B. 100 GB
- C. 20 GB
- D. 120 GB

**Correct Answer:** A



# Exams



VMware Exams	
Title	Exam
VMware vSphere 6.7 Foundations Exam 2019	<a href="#">2V0-01.19</a>
Professional vSphere 6.7 Exam 2019	<a href="#">2V0-21.19</a>
Professional vSphere 6.7 Delta Exam 2019	<a href="#">2V0-21.19D</a>
VMware Professional Horizon 7.7 Exam 2019	<a href="#">2V0-51.19</a>
vSphere 6.5 Foundations	<a href="#">2V0-602</a>
VMware Professional Workspace ONE Exam 2019	<a href="#">2V0-61.19</a>
vSphere 6 Foundations	<a href="#">2V0-620</a>
VMware Certified Professional 6.5 - Data Center Virtualization	<a href="#">2V0-622</a>
VMware Certified Professional 6.5 - Data Center Virtualization Delta	<a href="#">2V0-622D</a>
VMware Certified Professional 7 - Cloud Management and Automation	<a href="#">2V0-731</a>
VMware Certified Professional - Digital Workspace 2018 Exam	<a href="#">2V0-761</a>
VMware Specialist: vSAN 6.x Exam	<a href="#">2VB-601</a>
VMware Certified Advanced Professional 6.5 - Data Center Virtualization Design	<a href="#">3V0-624</a>
VMware Certified Advanced Professional 7 - Desktop and Mobility Design	<a href="#">3V0-752</a>
VMware Cloud on AWS Management Exam 2019	<a href="#">5V0-31.19</a>
VMware Certified Associate 6 - Network Virtualization Fundamentals	<a href="#">1V0-604</a>
VMware Certified Associate 6 - Desktop and Mobility Fundamentals	<a href="#">1V0-605</a>
VMware Certified Associate 6 - Network Visualization Fundamentals Exam	<a href="#">1V0-642</a>
VMware Certified Associate - Digital Business Transformation (VCA-DBT)	<a href="#">1V0-701</a>
Professional Horizon	<a href="#">2V0-51.18</a>
VMware Certified Professional 6 - Data Center Virtualization	<a href="#">2V0-621</a>
VMware Certified Professional 6 - Data Center Virtualization Delta	<a href="#">2V0-621D</a>
VMware Certified Professional 6 - Cloud Management and Automation Beta	<a href="#">2V0-631</a>
VMware Certified Professional 6 - Network Virtualization (NSX v6.2)	<a href="#">2V0-642</a>
VMware Certified Professional 6 - Desktop and Mobility Beta	<a href="#">2V0-651</a>
VMware Certified Professional 7 - Desktop and Mobility Exam	<a href="#">2V0-751</a>
VMware Specialist: vRealize Operations 6.x Exam	<a href="#">2VB-602</a>
Advanced Deploy vSphere 6.5 Exam 2018	<a href="#">3V0-21.18</a>
Advanced Deploy vRealize Automation 7.3 Exam 2018	<a href="#">3V0-31.19</a>
VMware Certified Advanced Professional 6 - Data Center Virtualization Design	<a href="#">3V0-622</a>
VMware Certified Advanced Professional 6 - Data Center Virtualization Deployment Beta	<a href="#">3V0-623</a>
VMware Certified Advanced Professional 6 - Cloud Management and Automation Design	<a href="#">3V0-632</a>
VMware Certified Advanced Professional 6 - Cloud Management and Automation Deployment	<a href="#">3V0-633</a>
VMware Certified Advanced Professional 6 - Network Virtualization Deployment (VCAP6-NV Deploy)	<a href="#">3V0-643</a>
VMware Certified Advanced Professional 6 - Desktop and Mobility Design	<a href="#">3V0-652</a>
VMware Certified Advanced Professional 7 - Cloud Management and Automation Design Exam	<a href="#">3V0-732</a>
VMware Cloud Provider Specialist Exam 2019	<a href="#">5V0-32.19</a>
VMware Certified Instructor on vSphere 5	<a href="#">VCI550</a>

# Certifications



VMware Certifications		
Certification Name		Exam
VCAP6-DCV	VMware Certified Advanced Professional 6 - Data Center Virtualization Design	<a href="#">3V0-622</a>
VCP6-DCV	VMware Certified Professional 6 - Data Center Virtualization	<a href="#">2V0-621D</a>
VCP6-DTM	VMware Certified Professional 6 - Desktop and Mobility	<a href="#">2V0-651</a>
VCP6-NV	VMware Certified Professional 6 - Network Virtualization	<a href="#">2V0-642</a>
VCP6.5-DCV	VMware Certified Professional 6.5 - Data Center Virtualization	<a href="#">2V0-622</a>
		<a href="#">2V0-622D</a>
VCP7-CMA	VMware Certified Professional 7 - Cloud Management and Automation	<a href="#">2V0-731</a>
VCP7-DTM	VMware Certified Professional 7 - Desktop and Mobility	<a href="#">2V0-751</a>

# Exams



Cisco Exams	
Title	Exam
ICND Interconnecting Cisco Networking Devices Part 1	<a href="#">100-105</a>
CCNA Cisco Certified Network Associate	<a href="#">200-125</a>
Introducing Cisco Data Center Networking	<a href="#">200-150</a>
Designing for Cisco Internetwork Solutions	<a href="#">200-310</a>
CCNA Cyber Ops Understanding Cisco Cybersecurity Fundamentals	<a href="#">210-250</a>
CCNA Cyber Ops Implementing Cisco Cybersecurity Operations	<a href="#">210-255</a>
CCNA Security Implementing Cisco Network Security	<a href="#">210-260</a>
CCNP Implementing Cisco IP Routing (ROUTE v2.0)	<a href="#">300-101</a>
CCNP Cisco IP Switched Networks (SWITCH v2.0)	<a href="#">300-115</a>
CCNP Troubleshooting and Maintaining Cisco IP Networks (TSHOOT v2.0)	<a href="#">300-135</a>
CCIE Routing and Switching Written	<a href="#">400-101</a>
ICND Interconnecting Cisco Networking Devices Part 2	<a href="#">200-105</a>
Introducing Cisco Data Center Technologies	<a href="#">200-155</a>
CCNA Wireless Implementing Cisco Wireless Network Fundamentals	<a href="#">200-355</a>
CCNA Collaboration Implementing Cisco Collaboration Devices (CICD)	<a href="#">210-060</a>
CCNA Collaboration Implementing Cisco Video Network Devices (CIVND)	<a href="#">210-065</a>
CCNP Security Implementing Cisco Edge Network Security Solutions (SENSS)	<a href="#">300-206</a>
CCNP Security Implementing Cisco Secure Access Solutions (SISAS)	<a href="#">300-208</a>
CCNP Security Implementing Cisco Secure Mobility Solutions (SIMOS)	<a href="#">300-209</a>
CCNP Security Implementing Cisco Threat Control Solutions	<a href="#">300-210</a>
Designing Cisco Network Service Architectures	<a href="#">300-320</a>
CCIE Security Written Exam	<a href="#">400-251</a>
Adopting The Cisco Business Architecture Approach	<a href="#">810-440</a>
Applying Cisco Business Architecture Techniques	<a href="#">820-445</a>
Cisco Customer Success Manager Specialist	<a href="#">820-602</a>
Mastering The Cisco Business Architecture Discipline	<a href="#">840-450</a>

# Certifications



Cisco Certifications					
Certification	Exam	Certification	Exam	Certification	Exam
CCENT	<a href="#">100-105</a>	CCIE Collaboration	<a href="#">400-051</a>	CCIE Security	<a href="#">400-251</a>
CCNA	<a href="#">200-301</a>		<a href="#">300-801</a>		<a href="#">300-701</a>
CCNA Routing & Switching	<a href="#">200-125</a>	CCNP Collaboration, DevNet Professional, DevNet Specialist	<a href="#">300-835</a>	CCNP Security, DevNet Professional, DevNet Specialist	<a href="#">300-735</a>
	<a href="#">100-105</a>	CCNA Data Center	<a href="#">200-150</a>	CCNA Service Provider	<a href="#">640-875</a>
	<a href="#">200-105</a>		<a href="#">200-155</a>		<a href="#">640-878</a>
CCNP Routing & Switching	<a href="#">300-101</a>	CCNP Data Center	<a href="#">300-160</a>	CCNP Service Provide	<a href="#">300-501</a>
	<a href="#">300-115</a>		<a href="#">300-165</a>		<a href="#">300-510</a>
	<a href="#">300-135</a>		<a href="#">300-170</a>		<a href="#">300-515</a>
CCIE Routing and Switching	<a href="#">400-101</a>		<a href="#">300-175</a>		<a href="#">642-883</a>
Cisco Certified DevNet Associate	<a href="#">200-901</a>		<a href="#">300-180</a>		<a href="#">642-885</a>
DevNet Professional, DevNet Specialist	<a href="#">300-901</a>		<a href="#">300-601</a>	<a href="#">642-887</a>	
	<a href="#">300-910</a>		<a href="#">300-610</a>	<a href="#">642-889</a>	
	<a href="#">300-915</a>		<a href="#">300-615</a>	CCIE Service Provider	
CCNP Enterprise	<a href="#">300-920</a>		<a href="#">300-620</a>	<a href="#">300-501</a>	
	<a href="#">300-401</a>		<a href="#">300-625</a>	CCNP Service Provider, DevNet Professional, DevNet Specialist	<a href="#">300-535</a>
	<a href="#">300-410</a>	CCIE Data Center	<a href="#">400-151</a>	CCNA Wireless	<a href="#">200-355</a>
	<a href="#">300-415</a>		<a href="#">300-601</a>	<a href="#">300-360</a>	
	<a href="#">300-420</a>	CCNP Data Center,	<a href="#">300-635</a>	CCNP Wireless	<a href="#">300-365</a>
	<a href="#">300-425</a>	CCDP	<a href="#">300-320</a>		<a href="#">300-370</a>
<a href="#">300-430</a>	<a href="#">300-101</a>		<a href="#">300-375</a>		
CCNP Enterprise, DevNet Professional DevNet Specialist	<a href="#">300-435</a>	<a href="#">300-115</a>	CCIE Wireless	<a href="#">400-351</a>	
CCIE Enterprise Infrastructure	<a href="#">300-401</a>	CCDE	<a href="#">352-001</a>	CCT Data Center	<a href="#">010-151</a>
CCIE Enterprise Wireless	<a href="#">300-401</a>	CCNA Industrial	<a href="#">200-601</a>	CCT Routing & Switching	<a href="#">640-692</a>
CCNA Cloud	<a href="#">210-451</a>	CCNA Security	<a href="#">210-260</a>	Business Architecture Analyst	<a href="#">810-440</a>
	<a href="#">210-455</a>	CCNP Security	<a href="#">300-206</a>	Business Architecture Specialist	<a href="#">820-445</a>
CCNP Cloud	<a href="#">300-460</a>		<a href="#">300-208</a>	Business Architecture Practitioner	<a href="#">840-450</a>
	<a href="#">300-465</a>		<a href="#">300-209</a>	Customer Success Manager Specialist	<a href="#">820-602</a>
	<a href="#">300-470</a>		<a href="#">300-210</a>	<a href="#">300-070</a>	
	<a href="#">300-475</a>		<a href="#">300-701</a>	<a href="#">300-075</a>	
CCNA Collaboration	<a href="#">210-060</a>		<a href="#">300-710</a>	<a href="#">300-080</a>	
	<a href="#">210-065</a>		<a href="#">300-715</a>	<a href="#">300-085</a>	
CCNA Cyber Ops	<a href="#">210-250</a>		<a href="#">300-720</a>	<a href="#">300-801</a>	
	<a href="#">210-255</a>		<a href="#">300-725</a>	<a href="#">300-810</a>	
CCDA	<a href="#">200-310</a>		<a href="#">300-730</a>	<a href="#">300-815</a>	
			<a href="#">300-820</a>		

# Exams



Microsoft Exams	
Title	Exam
Designing and Deploying Microsoft Exchange Server 2016	<a href="#">70-345</a>
Installing and Configuring Windows Server 2012	<a href="#">70-410</a>
Administering Windows Server 2012	<a href="#">70-411</a>
Configuring Advanced Windows Server 2012 Services	<a href="#">70-412</a>
MCSA Querying Microsoft SQL Server 2012/2014	<a href="#">70-461</a>
MCSA Administering Microsoft SQL Server 2012/2014 Databases	<a href="#">70-462</a>
MCSA Programming in HTML5 with JavaScript and CSS3	<a href="#">70-480</a>
MCSA Programming in C#	<a href="#">70-483</a>
MCSA Developing ASP.NET MVC Web Applications	<a href="#">70-486</a>
MCSA Developing Windows Azure and Web Services	<a href="#">70-487</a>
Configuring and Operating a Hybrid Cloud with Microsoft Azure Stack	<a href="#">70-537</a>
Administering Microsoft System Center Configuration Manager and Cloud Services Integration	<a href="#">70-703</a>
Installation, Storage, and Compute with Windows Server 2016	<a href="#">70-740</a>
MCSA Networking with Windows Server 2016	<a href="#">70-741</a>
Identity with Windows Server 2016	<a href="#">70-742</a>
Upgrading Your Skills to MCSA: Windows Server 2016	<a href="#">70-743</a>
Securing Windows Server 2016	<a href="#">70-744</a>
Developing SQL Databases	<a href="#">70-762</a>
Administering a SQL Database Infrastructure	<a href="#">70-764</a>
Implementing a SQL Data Warehouse	<a href="#">70-767</a>
Analyzing and Visualizing Data with Microsoft Power BI	<a href="#">70-778</a>
Word 2016: Core Document Creation, Collaboration and Communication	<a href="#">77-725</a>
Excel 2016: Core Data Analysis, Manipulation, and Presentation	<a href="#">77-727</a>
Windows Server Administration Fundamentals	<a href="#">98-365</a>
Security Fundamentals	<a href="#">98-367</a>
Introduction to Programming Using Python	<a href="#">98-381</a>
Designing and Implementing an Azure AI Solution	<a href="#">AI-100</a>
Microsoft Azure Administrator	<a href="#">AZ-103</a>
Developing Solutions for Microsoft Azure	<a href="#">AZ-203</a>
Microsoft Azure Architect Technologies	<a href="#">AZ-300</a>
Microsoft Azure Architect Design	<a href="#">AZ-301</a>
Microsoft Azure DevOps Solutions	<a href="#">AZ-400</a>
Microsoft Azure Security Technologies	<a href="#">AZ-500</a>
Microsoft Azure Fundamentals	<a href="#">AZ-900</a>
Designing an Azure Data Solution	<a href="#">DP-201</a>
Microsoft Dynamics 365 Customer Engagement Core (beta)	<a href="#">MB-200</a>
Microsoft Dynamics 365 for Sales	<a href="#">MB-210</a>
Microsoft Dynamics 365 for Marketing	<a href="#">MB-220</a>
Microsoft Dynamics 365 for Field Service (beta)	<a href="#">MB-240</a>
Microsoft Dynamics 365 Unified Operations Core (beta)	<a href="#">MB-300</a>
Microsoft Dynamics 365 for Finance and Operations, Financials	<a href="#">MB-310</a>

# Exams



Title	Exam
Microsoft Dynamics 365 for Finance and Operations, Manufacturing	<a href="#">MB-320</a>
MB-330: Microsoft Dynamics 365 for Finance and Operations, Supply Chain Management (beta)	<a href="#">MB-330</a>
Microsoft Dynamics 365 Fundamentals	<a href="#">MB-900</a>
Development, Extensions and Deployment for Microsoft Dynamics 365 for Finance and Operations	<a href="#">MB6-894</a>
Windows 10	<a href="#">MD-100</a>
Managing Modern Desktops	<a href="#">MD-101</a>
Microsoft 365 Identity and Services	<a href="#">MS-100</a>
Microsoft 365 Mobility and Security	<a href="#">MS-101</a>
Planning and Configuring a Messaging Platform (beta)	<a href="#">MS-200</a>
Implementing a Hybrid and Secure Messaging Platform	<a href="#">MS-201</a>
Microsoft 365 Messaging Administrator Certification Transition	<a href="#">MS-202</a>
Deploying Microsoft 365 Teamwork	<a href="#">MS-300</a>
Microsoft 365 Teamwork Administrator Certification Transition (beta)	<a href="#">MS-302</a>
Microsoft 365 Security Administration	<a href="#">MS-500</a>
Microsoft 365 Fundamentals	<a href="#">MS-900</a>
Technology Literacy for Educators	<a href="#">62-193</a>
Deploying Enterprise Voice with Skype for Business 2015	<a href="#">70-333</a>
Core Solutions of Microsoft Skype for Business 2015	<a href="#">70-334</a>
Managing Microsoft SharePoint Server 2016	<a href="#">70-339</a>
Managing Projects with Microsoft Project	<a href="#">70-343</a>
Managing Projects and Portfolios with Microsoft PPM	<a href="#">70-348</a>
Developing Mobile Apps	<a href="#">70-357</a>
MCSE Designing and Implementing a Server Infrastructure	<a href="#">70-413</a>
MCSE Implementing an Advanced Server Infrastructure	<a href="#">70-414</a>
Upgrading Your Skills to MCSA Windows Server 2012	<a href="#">70-417</a>
MCSA Implementing a Data Warehouse with Microsoft SQL Server 2012/2014	<a href="#">70-463</a>
Developing Microsoft SQL Server 2012/2014 Databases	<a href="#">70-464</a>
Designing Database Solutions for Microsoft SQL Server 2012	<a href="#">70-465</a>
Implementing Data Models and Reports with Microsoft SQL Server 2012	<a href="#">70-466</a>
Designing Business Intelligence Solutions with Microsoft SQL Server 2012	<a href="#">70-467</a>
Designing and Providing Microsoft Licensing Solutions to Large Organizations	<a href="#">70-705</a>
Software Asset Management (SAM) – Core	<a href="#">70-713</a>
OEM Manufacturing and Deployment for Windows 10	<a href="#">70-735</a>
Implementing a Software-Defined Datacenter	<a href="#">70-745</a>
Querying Data with Transact-SQL	<a href="#">70-761</a>
Provisioning SQL Databases	<a href="#">70-765</a>
Developing SQL Data Models	<a href="#">70-768</a>
Implementing Microsoft Azure Cosmos DB Solutions	<a href="#">70-777</a>
Analyzing and Visualizing Data with Microsoft Excel	<a href="#">70-779</a>
OEM Preinstallation	<a href="#">74-697</a>

Title	Exam
Windows Operating System Fundamentals	<a href="#">98-349</a>
Software Development Fundamentals	<a href="#">98-361</a>
Database Fundamentals	<a href="#">98-364</a>
Networking Fundamentals	<a href="#">98-366</a>
Mobility and Devices Fundamentals	<a href="#">98-368</a>
Cloud Fundamentals	<a href="#">98-369</a>
HTML5 App Development Fundamentals	<a href="#">98-375</a>
Introduction to Programming Using Block-Based Languages (Touch Develop)	<a href="#">98-380</a>
Introduction to Programming Using JavaScript	<a href="#">98-382</a>
Introduction to Programming Using HTML and CSS	<a href="#">98-383</a>
Introduction to Programming Using Java	<a href="#">98-388</a>
Designing and Implementing a Data Science Solution on Azure (beta)	<a href="#">DP-100</a>
Implementing an Azure Data Solution	<a href="#">DP-200</a>
Microsoft Dynamics 365 for Customer Service	<a href="#">MB-230</a>
Microsoft Dynamics CRM Online Deployment	<a href="#">MB2-706</a>
Microsoft Dynamics CRM Customization and Configuration	<a href="#">MB2-707</a>
Microsoft Dynamics CRM Installation	<a href="#">MB2-708</a>
Microsoft Dynamics CRM 2016 Online Deployment	<a href="#">MB2-710</a>
Microsoft Dynamics CRM 2016 Installation	<a href="#">MB2-711</a>
Microsoft Dynamics CRM 2016 Customization and Configuration	<a href="#">MB2-712</a>
Microsoft Dynamics CRM 2016 Sales	<a href="#">MB2-713</a>
Microsoft Dynamics CRM 2016 Customer Service	<a href="#">MB2-714</a>
Microsoft Dynamics 365 Customization and Configuration	<a href="#">MB2-716</a>
Microsoft Dynamics 365 for Customer Service	<a href="#">MB2-718</a>
Microsoft Dynamics 365 for Marketing	<a href="#">MB2-719</a>
Microsoft Dynamics 365 for Field Service	<a href="#">MB2-877</a>
Financial Management in Microsoft Dynamics 365 for Finance and Operations	<a href="#">MB6-895</a>
Distribution and Trade in Microsoft Dynamics 365 for Finance and Operations	<a href="#">MB6-896</a>
Microsoft Dynamics 365 for Retail	<a href="#">MB6-897</a>
Microsoft Dynamics 365 for Talent	<a href="#">MB6-898</a>
Deploying SharePoint Server Hybrid	<a href="#">MS-301</a>

# Certifications



Microsoft Certifications			
Certification Name	Exam	Certification Name	Exam
Azure Security Engineer Associate	<a href="#">AZ-500</a>	Universal Windows Platform	<a href="#">70-483</a>
Dynamics 365 Fundamentals	<a href="#">MB-900</a>		<a href="#">70-357</a>
Dynamics 365 for Marketing Functional Consultant Associate	<a href="#">MB-200</a>	Web Applications	<a href="#">70-480</a>
	<a href="#">MB-220</a>		<a href="#">70-483</a>
Dynamics 365 for Field Service Functional Consultant Associate	<a href="#">MB-200</a>		<a href="#">70-486</a>
Dynamics 365 for Finance and Operations, Financials Functional Consultant Associate	<a href="#">MB-240</a>	Windows Server 2012	<a href="#">70-410</a>
	<a href="#">MB-300</a>		<a href="#">70-411</a>
Dynamics 365 for Finance and Operations, Manufacturing Functional Consultant Associate	<a href="#">MB-310</a>	Windows Server 2016	<a href="#">70-412</a>
	<a href="#">MB-300</a>		<a href="#">70-740</a>
Dynamics 365 for Finance and Operations, Supply Chain Management Functional Consultant Associate	<a href="#">MB-320</a>		<a href="#">70-741</a>
Microsoft 365 Certified Fundamentals	<a href="#">MB-300</a>	Business Applications	<a href="#">70-742</a>
	<a href="#">MB-330</a>		<a href="#">MB2-716</a>
Messaging Administrator Associate	<a href="#">MS-900</a>		<a href="#">MB2-718</a>
	<a href="#">MS-200</a>		<a href="#">MB2-719</a>
	<a href="#">MS-201</a>		<a href="#">MB6-895</a>
Modern Desktop Administrator Associate	<a href="#">MS-202</a>		<a href="#">MB6-896</a>
	<a href="#">MD-100</a>		<a href="#">MB6-897</a>
Security Administrator Associate	<a href="#">MD-101</a>		<a href="#">MB6-898</a>
	<a href="#">MS-500</a>		Core Infrastructure
Teamwork Administrator Associate	<a href="#">MS-300</a>		
	<a href="#">MS-301</a>	<a href="#">70-413</a>	
	<a href="#">MS-302</a>	<a href="#">70-414</a>	
Azure Administrator Associate	<a href="#">AZ-103</a>		<a href="#">70-537</a>
Azure AI Engineer Associate	<a href="#">AI-100</a>	Data Management and Analytics	<a href="#">70-464</a>
Azure Data Engineer Associate	<a href="#">DP-200</a>		<a href="#">70-465</a>
	<a href="#">DP-201</a>		<a href="#">70-466</a>
Azure Data Scientist Associate	<a href="#">DP-100</a>		<a href="#">70-467</a>
Dynamics 365 for Sales Functional Consultant Associate	<a href="#">MB-200</a>		<a href="#">70-762</a>
	<a href="#">MB-210</a>		<a href="#">70-767</a>
Azure Developer Associate	<a href="#">AZ-203</a>		<a href="#">70-768</a>
Azure Solutions Architect Expert	<a href="#">AZ-300</a>	MCSE Productivity Solutions Expert	<a href="#">70-777</a>
	<a href="#">AZ-301</a>		<a href="#">70-345</a>
Azure DevOps Engineer Expert	<a href="#">AZ-400</a>		<a href="#">70-339</a>
Enterprise Administrator Expert	<a href="#">MS-100</a>	<a href="#">70-333</a>	
	<a href="#">MS-101</a>	<a href="#">70-334</a>	
Dynamics 365 for Customer Service Functional Consultant Associate	<a href="#">MB-200</a>	MCSD Exams Dumps	<a href="#">70-357</a>
	<a href="#">MB-230</a>		<a href="#">70-486</a>
Microsoft Certified Azure Fundamentals	<a href="#">AZ-900</a>		



# Certifications



Certification Name	Exam	Certification Name	Exam
Dynamics 365 for Sales Functional Consultant Associate	<a href="#">MB-200</a>	MTA Exams Dumps	<a href="#">98-349</a>
	<a href="#">MB-210</a>		<a href="#">98-350</a>
BI Reporting	<a href="#">70-778</a>		<a href="#">98-351</a>
	<a href="#">70-779</a>		<a href="#">98-352</a>
Microsoft Dynamics 365 for Operations	<a href="#">70-764</a>		<a href="#">98-353</a>
	<a href="#">70-765</a>		<a href="#">98-354</a>
	<a href="#">MB6-894</a>		<a href="#">98-355</a>
SQL 2016 BI Development	<a href="#">70-767</a>		<a href="#">98-356</a>
	<a href="#">70-768</a>		<a href="#">98-357</a>
SQL 2016 Database Administration	<a href="#">70-764</a>		<a href="#">98-358</a>
	<a href="#">70-765</a>		<a href="#">98-359</a>
SQL 2016 Database Development	<a href="#">70-761</a>		<a href="#">98-360</a>
	<a href="#">70-762</a>		<a href="#">98-361</a>
SQL Server 2012/2014	<a href="#">70-461</a>		<a href="#">98-362</a>
	<a href="#">70-462</a>		
	<a href="#">70-463</a>		

# Exams



CompTIA Exams	
Title	Exam
CompTIA A+ Certification Exam: Core 1	<a href="#">220-1001</a>
CompTIA A+ Certification Exam: Core 2	<a href="#">220-1002</a>
CompTIA A+ (220-901)	<a href="#">220-901</a>
CompTIA A+ (220-902)	<a href="#">220-902</a>
CompTIA Advanced Security Practitioner (CASP) CAS-003	<a href="#">CAS-003</a>
CompTIA Cloud Essentials	<a href="#">CLO-001</a>
CompTIA CySA+ Certification Exam	<a href="#">CS0-001</a>
CompTIA Cloud+ (CV0-002)	<a href="#">CV0-002</a>
CompTIA Linux+ Powered by LPI 1	<a href="#">LX0-103</a>
CompTIA Linux+ Powered by LPI 2	<a href="#">LX0-104</a>
CompTIA Network+ 2018	<a href="#">N10-007</a>
CompTIA PenTest+ Certification Exam	<a href="#">PT0-001</a>
CompTIA Server+	<a href="#">SK0-004</a>
CompTIA Security+	<a href="#">SY0-501</a>
CompTIA Linux+	<a href="#">XK0-004</a>
CompTIA Advanced Security Practitioner (CASP)	<a href="#">CAS-002</a>
CompTIA Strata Fundamentals of PC Functionality	<a href="#">FC0-U11</a>
CompTIA Strata Fundamentals of PC Technology	<a href="#">FC0-U21</a>
CompTIA IT Fundamentals	<a href="#">FC0-U51</a>
CompTIA IT Fundamentals	<a href="#">FC0-U61</a>
CompTIA IT Fundamentals	<a href="#">FC0-Z51</a>
Cleveland Community College Certified Mission Critical Operator Beta	<a href="#">MC1-001</a>
CompTIA Project+	<a href="#">PK0-004</a>
CompTIA CTT+ Essentials	<a href="#">TK0-201</a>

# Certifications



CompTIA Certifications	
Certification Name	Exam
CompTIA A+ 2019	<a href="#">220-1001</a>
CompTIA A+ 2019	<a href="#">220-1002</a>
CompTIA A+ 2019	<a href="#">220-901</a>
CompTIA A+ 2019	<a href="#">220-902</a>
CompTIA Advanced Security Practitioner	<a href="#">CAS-003</a>
CompTIA Cloud Essentials	<a href="#">CLO-001</a>
CompTIA Cloud Essentials	<a href="#">CLO-002</a>
CompTIA CySA+	<a href="#">CS0-001</a>
CompTIA Cloud+	<a href="#">CV0-002</a>
CompTIA IT Fundamentals	<a href="#">FC0-U51</a>
CompTIA IT Fundamentals	<a href="#">FC0-U61</a>
CompTIA Linux+	<a href="#">LX0-103</a>
CompTIA Linux+	<a href="#">LX0-104</a>
CompTIA Network+	<a href="#">N10-007</a>
CompTIA Project+	<a href="#">PK0-004</a>
CompTIA PenTest+	<a href="#">PT0-001</a>
CompTIA Security+	<a href="#">SY0-501</a>
CompTIA CTT+	<a href="#">TK0-201</a>
CompTIA CTT+	<a href="#">TK0-202</a>
CompTIA CTT+	<a href="#">TK0-203</a>
CompTIA Linux+	<a href="#">XK0-004</a>

# Other IT Certification Roadmap

## Adobe

BEGINNER/NOVICE

ACA

INTERMEDIATE

ACI

EXPERT

ACE

## Aruba

INTERMEDIATE

ACMP

## Cloud Security Alliance

ADVANCED

CCSK

## The Cloud School

ADVANCED

CCP

## CWNP

INTERMEDIATE

CWNA

CWTS

## Citrix

INTERMEDIATE

CCIA

ADVANCED

CCA

## EC Council

INTERMEDIATE

CHFI

CEH

## GIAC

INTERMEDIATE

GCIH

GISP

GSEC

## HDI Global

BEGINNER/NOVICE

HDI DST

HDI SCA

INTERMEDIATE

HDI CI

HDI DSM

HDI SCM

## Hewlett-Packard

EXPERT

ASE/CSE

## ISACA

ADVANCED

CISA

EXPERT

CGEIT

CISM

## ISC<sup>2</sup>

ADVANCED

CSSLP

EXPERT

CISSP

## Checkpoint

CCSA

CCSE

## Linux Professional Institute

BEGINNER/NOVICE

Linux Essentials

INTERMEDIATE

LPIC-1 Linux Professional

ADVANCED

LPIC-2 Linux Professional

EXPERT

LPIC-3 Linux Professional

## Mile2

EXPERT

CPTE

## MongoDB University

INTERMEDIATE

MongoDB Certified Developer

Associate

## SUSE

INTERMEDIATE

SCA

ADVANCED

SCE

EXPERT

SEA

## Novell

ADVANCED

CNE

## Office of Government Commerce/Prince2

INTERMEDIATE

Prince2 Foundation

EXPERT

Prince2 Practitioner

## PMI

INTERMEDIATE

CAPM

ADVANCED

PMP

## Red Hat

INTERMEDIATE

RHCSA

ADVANCED

RHCE

EXPERT

RHCA

## Rackspace

INTERMEDIATE

RCT

## Scrum Alliance

EXPERT

CSP

## Salesforce

INTERMEDIATE

SALESFORCE

## Zend

INTERMEDIATE

PHP Certification

ADVANCED

Framework 2 Certification