CA Single Sign-On 12.x Proven Implementation Professional Exam (CAT-140)

Study Guide
Version 1.5

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Exam Information

The CA Technologies Certification Program is designed to measure your skills, knowledge, and expertise in managing, administering, installing, configuring and implementing select CA Technologies products for complete and optimized IT solutions. With CA certifications, management teams will have peace of mind that knowledgeable professionals are handling their CA Technologies applications.

Proctored by a third party vendor, KryterionOnline, CA Technologies certifications objectively validate the competencies of a project team – whether that team is your in-house staff, CA Technologies Professional Services, or a CA Technologies partner.

The aim of this document is to help you prepare for the CA Single Sign-On 12.x Proven Implementation Professional Exam. Make sure that you familiarize yourself with the content areas tested. Your best path to success is to attend the exam prep course(s).

You may also find it helpful to review the product documentation at https://docops.ca.com/home and to participate in CA Global User Community forums at https://communities.ca.com.

The experience gained from taking courses and using the product will help you:
- Gain a comprehensive understanding of the product or solution
- Increase the likelihood of passing the exam on your first attempt

The Exam Experience	Professional Exam Details
You can register to take an online proctored exam from your home or office using Kryterion's Online Proctoring (OLP) Services, or you can take an on-site proctored exam at a Kryterion testing center. If you choose to take an online proctored exam, you will need Internet access, an external web camera, and a computer that meets specific hardware and software requirements. For answers to frequently asked questions about registering for exams, locations, on-site and virtual proctoring, OLP equipment requirements, cancellation and re-scheduling policies and more, read our FAQs at http://www.ca.com/us/education/accreditations/certifications/certification-faq.aspx. CA employees may also go here for more information: https://one.ca.com/education/certification	- Product release: Major release listed in the title; Includes subsequent point releases - Recertification: There is no annual requirement to recertify for the same release of a product. For each major product release, an updated exam will be available for recertification. - Number of items = 50 - Item types = Multiple choice, including multiple response questions - Time to complete test: 90 minutes - Passing score is 70% - Attempts Permitted: You may register for your first retake immediately. For subsequent retakes you are required to wait at least thirty (30) calendar days from the date of your last attempt. Read the online FAQs for details.

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Exam Security

Only qualified candidates who demonstrate competency by successfully passing the CA Technologies certification exam will be awarded certification credentials. Prospective certification candidates are encouraged to prepare for the exam using the Exam Study Guide and other materials available on the Certification from CA Technologies [website](#).

To safeguard the integrity of the certification program, CA Technologies requires all candidates to behave in an ethical manner and to comply with the rules of the third-party test center for on-site proctoring and on-line proctoring. The validity of the certification program depends on the exam content remaining secure and undisclosed to other potential certification candidates. CA Technologies will not tolerate cheating, fraud, or misconduct, which includes but is not limited to the following:

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- Obtaining, whether through purchase or otherwise acquiring, unauthorized exam questions from any non-CA website, including brain dump websites
- Acquiring or attempting to acquire exam questions through online communities, chat rooms, screen capture software, forums, and social networking sites
- Acquiring or attempting to acquire exam content through CA Subject Matter Experts, CA Support Staff, or CA Certified Professionals
- Using or attempting to use a proxy to sit for the exam in your place
- Taking or attempting to take an exam for someone else
- Receiving or giving assistance during an exam
- Sharing exam questions or answers with a potential certification candidate
- Violating testing center rules
- Falsifying a diploma or score report
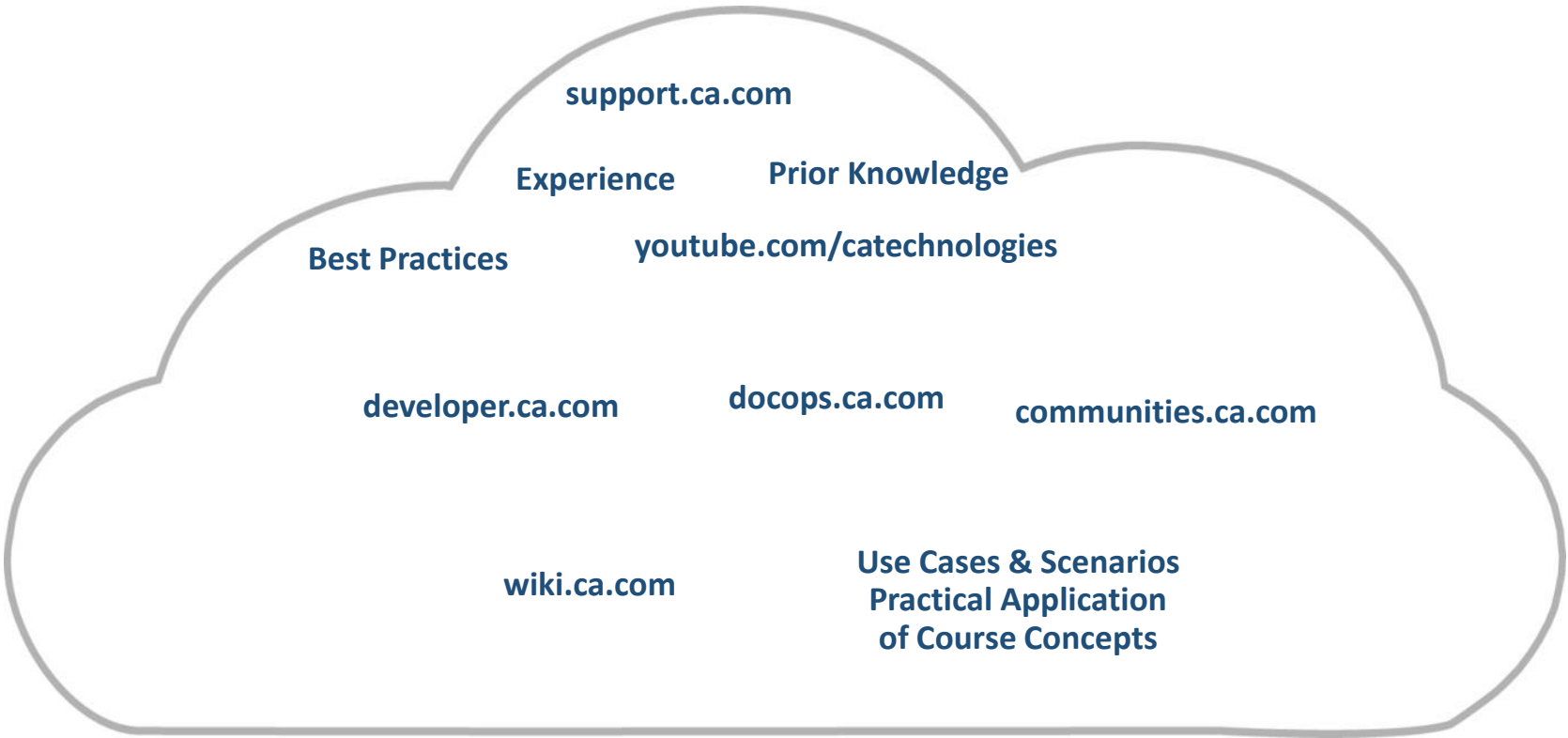- Using a CA Technologies certification logo or credential to which you are not entitled

CA Technologies reserves the right to take any actions it deems reasonably appropriate in the case of suspected misconduct or violation of the terms of the Non-Disclosure Agreement, including, but not limited to, cancelling an exam result, revoking exam or certification status, terminating use of the Designation, requiring a candidate to retake an exam, banning a candidate from the certification program, and reporting misconduct to the candidate's employer. CA Technologies considers cheating a serious offense that warrants disciplinary action, up to and including termination of employment.

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Areas of Study

support.ca.com

Experience   Prior Knowledge

Best Practices   youtube.com/catechnologies

developer.ca.com   docops.ca.com   communities.ca.com

wiki.ca.com   **Use Cases & Scenarios Practical Application of Course Concepts**

For relevant courseware, see the next page.

Search the CA Education Portal for latest courses, as they may not have been available at the time of this document posting:
- Partners & Customers look here: http://education.ca.com
- Employees look here: https://learn.ca.com/

For documentation, Communities, and more visit: https://docops.ca.com/home
Register for the exam here: www.webassessor.com/catechnologies/index.html

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Areas of Study

Note: Relevant courseware is available in various formats. For more details, see the product learning path.

CA Single Sign-On 12.7.x: Foundations 200 (Dynamic Lab)
04SSO2017S
9 hours
OR
CA Single Sign-On 12.7.x: Foundations 200 Instructor-led Training / Virtual Learning (ILT/VL)
04SSO20171
3 days
OR
Coming Soon: Subscription-based Individual Courses

CA Single Sign-On 12.7.X: Use the CA Access Gateway for Federated Social Sign-On 200
04SSO20180
Web-Based Training (WBT) 30 minutes

Advanced Topics

CA Single Sign-On: Advanced Topics 300
Coming Soon
OR
CA Single Sign-On: Advanced Topics 300: Configure CA Directory as a Session Store
- 04SSO3005S Dynamic Lab 1.25 hours
- 04SSO30050 WBT 30 minutes
CA Single Sign-On: Advanced Topics 300: Protect the Session and Constrain Hijacking
- 04SSO3006S Dynamic Lab Coming Soon
- 04SSO30060 WBT 15 minutes

Advanced Topics Continued

CA Single Sign-On: Advanced Topics 300: Enable Enhanced Session Assurance with DeviceDNA
- 04SSO3007S Dynamic Lab 45 minutes
- 04SSO30070 WBT 15 minutes
CA Single Sign-On: Advanced Topics 300: Configure the Authentication and Authorization Web Services
- 04SSO3012S Dynamic Lab 1.25 hours
- 04SSO30120 WBT 30 minutes
CA Single Sign-On: Advanced Topics 300: CA SSO OpenID Connect
- 04SSO3011S Dynamic Labs
- 04SSO30110 WBT 30 minutes
CA Single Sign-On: Advanced Topics 300: Implement Social Sign-On with Partnership Federation
- 04SSO3009S Dynamic Labs
- 04SSO30090 WBT 30 minutes
CA Single Sign-On: Advanced Topics 300: Enhance Security with Session Linking
- 04SSO3015S Dynamic Labs Coming Soon
- 04SSO30150 WBT Coming Soon
CA Single Sign-On: Advanced Topics 300: Federate Microsoft Office 365
- 04SSO3016S Dynamic Labs Coming Soon
- 04SSO30160 WBT Coming Soon
CA Single Sign-On: Advanced Topics 300: Use the Policy Object REST APIs
- 04SSO3019S Dynamic Labs Coming Soon
- 04SSO30190 WBT Coming Soon

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Exam Objectives

Exam objectives as they map to related courseware and the body of knowledge, including percentage of exam devoted to topics.

Exam Objectives	Related Content	Exam Focus
Understanding CA SSO	**CA Single Sign-On 12.7.x: Foundations 200 (04SSO2017S or 04SSO20171)** *Introduction* • Prerequisite recap • Definitions	8%
Understanding the CA SSO Architecture and Installation	**CA Single Sign-On 12.7.x: Foundations 200 (04SSO2017S or 04SSO20171)** *Architecture and Installation Overview* • Major Components • Deployment Architectures • Installation Overview	8%
Configuring the Policy Server with the Management Console	**CA Single Sign-On 12.7.x: Foundations 200 (04SSO2017S or 04SSO20171)** *Configure the Policy Server with the Management Console* • Describe the Management Console • Start/Stop the Policy Server • Enable Policy Server Profiling	6%
Navigating the Admin UI to Administer Agents and Hosts	**CA Single Sign-On 12.7.x: Foundations 200 (04SSO2017S or 04SSO20171)** *Navigate the Admin UI to Administer Agents and Hosts* • Create Agent Identities • Create Agent Configuration Objects • Create Host Configuration Objects • Manage Cache	8%
Creating an Access Policy	**CA Single Sign-On 12.7.x: Foundations 200 (04SSO2017S or 04SSO20171)** *Create an Access Policy* • Policy Considerations: Get Organized • Connect to Active Directory and LDAP User Directories • Integrate a Web Site Using Responses • Configure Full Logoff	14%
Using the CA Access Gateway to Proxy Web Site Access	**CA Single Sign-On 12.7.x: Foundations 200 (04SSO2017S or 04SSO20171)** *Use the CA Access Gateway to Proxy Web Site Access* • Meet the CA Access Gateway Admin UI • Enable Logon to the CA Access Gateway Admin UI • Configure Virtual Hosts on the CA Access Gateway • Configure Proxy Rules to Back-end Servers • Create an Access Policy using the CA Access Gateway	10%

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Exam Objectives	Related Content	Exam Focus
Getting Help	**CA Single Sign-On 12.7.x: Foundations 200 (04SSO2017S or 04SSO20171)** *Getting Help* • One View Monitor • Remote Engineer	6%
Understanding Federated Social Sign-On	**CA Single Sign-On 12.7.X: Use the CA Access Gateway for Federated Social Sign-On 200 (04SSO20180)** *Use the CA Access Gateway for Federated Social Sign-on* **CA Single Sign-On: Advanced Topics 300: Implement Social Sign-On with Partnership Federation (04SSO3009S or 04SSO30090)** *Implement Social Sign-On with Partnership Federation* • Federation Defined • Support for Social Sign-on Overview • CA SSO Entities • CA SSO Partnerships	10%
Configuring CA Directory as a Session Store	**CA Single Sign-On: Advanced Topics 300: Configure CA Directory as a Session Store (04SSO3005S or 04SSO30050)** *Configure CA Directory as a Session Store*	4%
Protecting the Session and Constraining Hijacking	**CA Single Sign-On: Advanced Topics 300: Protect the Session and Constrain Hijacking (04SSO3006S or 04SSO30060)** *Protect the Session and Constrain Hijacking* • Invalidated Redirects • Cross-site Scripting • Constrain Hijacking • Session Management • DNS Denial of Service	10%
Enabling Enhanced Session Assurance with DeviceDNA	**CA Single Sign-On: Advanced Topics 300: Enable Enhanced Session Assurance with DeviceDNA (04SSO3007S or 04SSO30070)** *Enable Enhanced Session Assurance with DeviceDNA*	2%
Configuring the Authentication and Authorization of Web Services	**CA Single Sign-On: Advanced Topics 300: Configure the Authentication and Authorization of Web Services (04SSO3012S or 04SSO30120)** *Configure the Authentication and Authorization of Web Services*	4%
Understanding CA SSO Open ID Connect	**CA Single Sign-On: Advanced Topics 300: CA SSO Open ID Connect (04SSO3011S or 04SSO30110)** *CA SSO Open ID Connect*	2%
Federating Microsoft Office 365	**CA Single Sign-On: Advanced Topics 300: Federate Microsoft Office 365 (04SSO3016S or 04SSO30160)** *Federate Microsoft Office 365*	2%

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Exam Objectives	Related Content	Exam Focus
Understanding the Policy Object REST APIs	**CA Single Sign-On: Advanced Topics 300: Use the Policy Object REST APIs (04SSO3019S or 04SSO30190)** *Use the Policy Object REST APIs*	2%
Using the Web Agent in Dynamically Scaled Environments	**Documentation and Field Experience** Using the Web Agent in Dynamically Scaled Environments	2%
Understanding Kerberos Constrained Delegation	**Documentation and Field Experience** Using Kerberos Constrained Delegation	2%

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Sample Certification Exam Questions

These sample questions are very similar to the questions in the actual exam. Some questions may include several correct options.

Questions	Options
Question 1 In CA SSO, which data stores are required? (Choose three)	A. Key store B. User store C. Audit store D. Policy store E. Session store
Question 2 Which statement about CA SSO rules is TRUE?	A. Group resources with a common security requirement B. Are triggered on specific authentication or authorization events C. Are used to assign an authentication scheme to protected resources D. Identify specific resources and allow or deny access based on specific HTTP operations performed on those resources
Question 3 Which features characterize the CA SSO Application Server Agent (ASA)? (Choose two)	A. Supports IBM WebSphere and Oracle WebLogic B. Moves the point of trust from the web server to the ERP/CRM server C. Makes calls to the Event Manager when authentication credentials are provided D. Protects applications in Java 2 Platform Enterprise Edition (J2EE)-based application servers
Question 4 You can optionally include CA Access Gateway in your deployment architecture. Which statement about CA Access Gateway is TRUE?	A. It can be configured as a web server plug-in or to work with a web server on the same system. B. It has built-in high availability, which is configurable within its parameters across multiple instances. C. It is a reverse proxy server that caches many resources from the destination servers to provide ready access for users. D. It is a stand-alone server that provides a proxy-based solution for access control and supports multiple session schemes that do not rely on traditional cookie-based technology.
Question 5 Which tool can be used to establish a trust relationship between the CA SSO UI and the Policy Server?	A. smreg B. smobjimport C. smobjexport D. XPSRegClient

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Questions	Options
Question 6 CA SSO administrator Sue Anderson sets the value of Maximum Timeout to two hours for a configured realm. As a result, the user session:	A. will time out after two hours only if it is idle for two hours. B. will time out after two hours, even if the user is actively accessing an application protected by the realm. C. will not time out irrespective of the setting, if the user is actively accessing an application protected by the realm. D. will time out after two hours irrespective of any activity but only if Sue also sets the Idle Timeout to at least two hours.
Question 7 In Federal Information Processing Standards (FIPS)-only mode, which algorithm does CA SSO use?	A. Advanced Encryption Standard (AES) Secure Hash Algorithm 2 (SHA-2) 256-bit B. Message-Digest 5 (MD5) C. AES SHA-1 128 bit D. RC4
Question 8 In relation to agents, what does central configuration indicate?	A. The Web Agent holds the initialization parameters for trusted hosts. B. The Web Agent overrides the configuration parameters of trusted hosts. C. The Web Agent is configured from a local configuration file on the web server. D. The Web Agent is configured from the Agent Configuration Object (ACO) on the Policy Server administrative UI.
Question 9 CA SSO features policy domain-based and application-based policy management. The application-based model is also known as the Enterprise Policy Management (EPM) model. Which feature characterizes the application-based model?	A. It makes identity mapping easier. B. It uses an application-centric approach. C. Its three core components are domains, realms, and agents. D. It uses a different security enforcement model than that built around CA SSO.
Question 10 You want to enable a CA SSO Forms Credential Collector (FCC) to serve up forms for resources protected by 4.x Web Agents or third-party applications. To accomplish this, in the Agent Configuration Object (ACO), you need to set:	A. LegacyEncoding to Yes. B. AcceptTPCookie to Yes. C. FCCCompatmode to NO. D. FCCCompatmode to YES.
Question 11 In CA Access Gateway, proxy rules define how the requests are forwarded or redirected to resources located on destination servers. After you change a proxy server rule, what do you need to do?	A. Restart the Policy Server. B. Restart CA Access Gateway. C. Restart the Apache component of CA Access Gateway only. D. Only save your settings because your changes take effect shortly after this without the need for a restart.

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Questions	Options
Question 12 When you configure federation, you can specify Security Assertion Markup Language (SAML) or Web Services Federation Language (WS-Federation) asserting parties and relying parties. Asserting parties can include: (Choose three)	A. SAML 1.x producers. B. SAML 2.0 Service Providers. C. SAML 2.0 Identity Providers. D. WS-Federation Account Partners (WSFED Identity Providers). E. WS-Federation Resource Partners (WSFED Resource Partners).
Question 13 In your CA SSO environment, adding CA SSO Federation enables you to:	A. define firewall policies. B. manage component licensing agreements. C. implement single sign-on (SSO) across different security domains. D. bind the CA SSO and Java 2 Platform Enterprise Edition (J2EE) sessions together.
Question 14 To store session IDs in an Open Database Connectivity (ODBC) database, which steps must you perform? (Choose three)	A. Disable Idle Timeout. B. Connect the Audit Store to the ODBC database. C. Connect the ODBC database to the Policy Server. D. Enable Persistent Session for the required policy realm. E. Set the session validation period to be less than the Idle Timeout value.
Question 15 In a multiple-cookie domain environment, which statement about cookie provision in a CA SSO enterprise is TRUE?	A. Each Web Agent acts as a cookie provider. B. Only one key store acts as a cookie provider. C. Only one Web Agent acts as a cookie provider. D. Each Policy Server instance acts as a cookie provider.
Question 16 Which feature characterizes the SSOTrustedZone parameter?	A. It is a single-value parameter. B. It is always populated with the SM zone by default. C. Its value is prepended to the name of a cookie that the Web Agent creates. D. It defines an ordered list of trusted SSOZoneNames for a single sign-on (SSO) security zone.
Question 17 How do you can create a new Session Assurance end point?	A. Use the CA SSO Admin UI. B. Add a virtual host to CA Access Gateway. C. Modify the server.conf file for CA Access Gateway. D. Install a Web Agent on the web server that hosts the application you are protecting.

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Question 18 You are configuring load balancing for several Lightweight Directory Access Protocol (LDAP) user directories. You want to force a specific directory server to service more requests. How can you accomplish this?	A. Use server aliases. B. Assign a higher priority number. C. Place the server higher in the list. D. Add the specific directory server multiple times in the directory configuration of the load balanced setup.
Question 19 As part of an ongoing effort to improve performance and high availability, Administrator Bruce Adams has created a Host Configuration Object (HCO) for a cluster. The cluster consists of four Policy Servers, each in a different data center. All Policy Servers point to an existing policy store. Bruce wants to maximize fault tolerance for Web Agents to avoid problems if the Policy Server in any data center becomes unavailable. What must Bruce do?	A. Point the webagent.conf file to the new HCO name and restart the web server instance. B. Perform a complete reconfiguration of the Web Agent, which is needed to use the new HCO. C. Add the new cluster HCO in the smhost.conf file and add all four Policy Servers is the list of boot strap Policy Servers. D. Register a new trusted host going against the Policy Servers to create a new smhost.conf file. Reference the new smhost.conf file in webagent.conf and add the new cluster HCO name in webagent.conf.
Question 20 You are planning a CA SSO-based single sign-on (SSO) infrastructure. Which capacity consideration is the MOST significant?	A. Type of operating system B. Total number of users in the user directory C. Total number of policy objects in the policy store D. The number of concurrent users that will access the system

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Answers

Question 1 = A, B, and D
Question 2 = D
Question 3 = A and D
Question 4 = D
Question 5 = D
Question 6 = B
Question 7 = A
Question 8 = D
Question 9 = B
Question 10 = D
Question 11 = D
Question 12 = A, C, and D
Question 13 = C
Question 14 = C, D, and E
Question 15 = C
Question 16 = D
Question 17 = A
Question 18 = D
Question 19 = C
Question 20 = D

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Each exam attempt costs $150. Payment and vouchers are only accepted during registration and scheduling on the third party website.

We are not able to process payment for Proven Implementation Professional exams on the LMS Training Portal.