

QUIZ:

1. To access the Grid resources you need:
  - a. A single account protected with username and password
  - b. A Grid certificate, a VO membership and access to a user interface machine
  - c. Root access to the various Grid sites
  - d. A certificate stored in PKCS12-format in your \$HOME/.globus directory

Correct Answer is b.

2. The delegation of user credentials:
  - a. Is enabled when the Certification Authority (CA) self-signs its own certificate with the CA own private key
  - b. Creates a proxy certificate with infinite lifetime
  - c. Is achieved with limited lifetime proxy certificates
  - d. Is enabled when the Certification Authority (CA) signs the user proxy certificate

Correct Answer is c.

3. On the User Interface machine you must have a \$HOME/.globus subdirectory, where:
  - a. You install a userrequest.pem file needed for submitting grid jobs
  - b. You store the PKCS12 certificate passphrase in order to request a Virtual Organizations (VO) membership
  - c. You find all the Virtual Organizations for different kinds of research communities
  - d. You store your public key in the usercert.pem file and your private key in the userkey.pem file

Correct Answer is d.

4. Jobs that last longer than the proxy default 12 hours:
  - a. Will fail because the job proxy has expired before the job has finished
  - b. Will succeed only if they use the Myproxy proxy renewal mechanism
  - c. Will stall until the user creates a new proxy and then resume
  - d. Will be migrated to run on Myproxy server

Correct Answer is b.

5. The Grid Certificates are signed and issued by the:
  - a. Certification Authority (CA)
  - b. National Grid Initiative (NGI) helpdesk
  - c. Virtual Organization (VO)
  - d. Registration Authority (RA)

Correct Answer is a.

6. The access control to compute and storage resources on Grid is based on the:
  - a. Secure Socket Layer (SSL) handshake
  - b. Distinguished Name (DN) of the user
  - c. Symmetric cryptography common key
  - d. Virtual Organization (VO) policy

Correct Answer is d.

7. Every user or service on the Grid is identified via a certificate. Which of the following information is *not* contained in the Grid certificate?

- a. The user private key
- b. The issuer's Distinguished Name and Digital Signature
- c. The user Distinguished Name and public key
- d. The validity period of the certificate

Correct Answer is a.

8. Once you have the Grid certificate in your possession, you have to:

- a. Install it only on the User Interface machine
- b. Install it only on your browser
- c. Install it on the User Interface machine and your browser
- d. Set the public key permissions to read-only

Correct Answer is c.

9. Authentication is the process of:

- a. Gaining access to requested resources
- b. Verifying your identify using an agreed upon credential
- c. Submitting jobs to a WMS
- d. Registering yourself for a virtual organization

Correct Answer is b.

10. A User Interface machine

- a. Processes work from the CE
- b. Allows you to interact with grid services
- c. Stores the work that cannot directly be executed on a WN
- d. Provides you with a graphical user interface

Correct Answer is b.

Optional:

The Grid security authentication method relies on:

- a. Proxy certificates and delegation of the private key
- b. X.509 certificate formats, signed from a trusted Registration Authority (RA)
- c. Symmetric cryptography and common secret key between user and resources.
- d. Asymmetric cryptography and the Secure Sockets Layer (SSL) communication protocol

Correct Answer is d.

In Asymmetric key cryptography:

- a. The user creates a symmetric key pair and publishes only the private key
- b. Public key is the decryption key
- c. Private key is the encryption key
- d. An encrypted message can only be decrypted with the corresponding private key

Correct Answer is d.