

1. REST uses several HTTP methods to communicate. Which HTTP method should not make a change to data on the server?

1 / 1 poi

GET



**Correct**

Correct! The GET command should only be used to obtain resources and not make changes to them.

2. Which of these are constraints of REST architectures? Choose the **three correct** answers.

1 / 1 poi



Uniform interface for communication



**Correct**

Correct! A uniform interface is provided by a specific way of using HTTP methods and a consistent method of locating resources, URI.



Layered and client-server based



**Correct**

Correct! Interactions consist of requests and responses and several hardware and software layers may be called.



Clients can cache responses



**Correct**

Correct! If the server marks a response as cacheable then the client can save it.



Interactions rely on state

3. According to REST best practices, where should you specify what format the input and

1 / 1 poi

output messages are in?

- ☐ Parameters in the URI
- ☐ sub-resources in the URI
- ☐ XML schema
- ☒ HTTP headers



**Correct**

Correct! The input and output formats are specified in the HTTP headers.

4. Which of these are acceptable REST URIs according to best practices? Choose the **two correct** answers.

1 / 1 poi

☒ /students/



**Correct**

Correct! Plural resource names are often a good starting point.

☒ /students/3/



**Correct**

Correct! Sub-resources can help you clarify relationships and identify particular resources.

☐ /student/

☐ /getstudent/

5. Which of these is **NOT** used in developing RESTful web services?

0 / 1 poi

☐ JSON

- ☐ SOAP
- ☒ simple text
- ☐ XML

⊗ **Incorrect**

Incorrect. REST resources can even be expressed in simple text!

6. By convention, which HTML method is usually used to create a *new resource*?

1 / 1 poi

- ☐ PUT
- ☐ DELETE
- ☒ POST
- ☐ PATCH

✓ **Correct**

Correct! POST is usually used to create a new resource.

7. What is the recommended way to not break functionality if your RESTful API is being used by many users?

0 / 1 poi

- ☐ version your API
- ☒ Refactor the service, keeping the API the same
- ☐ Describe your service with WSDL
- ☐ Subscribe your service consumers to change notifications

⊗ **Incorrect**

Incorrect. This may work for small changes, but there is a better way if you are

going to make large changes.

8. Which of these best describes microservices?

1 / 1 poi

- ☐ Replicating services and modifying them to fill other roles
- ☐ Web service architectures consisting of lots of small, modular services
- ☐ Migrating business functionality into a set of services incrementally instead of all at once
- ☒ a variation of SOA applied on an application scale



**Correct**

Correct! This is a great description of microservices.

9. Consider the two statements. Choose the one correct option.

1 / 1 poi

1. Microservices must be in the same language and framework
2. Microservices can be replicated for scaling

- ☐ Only the first statement is true
- ☒ Only the second statement is true
- ☐ Both statements are true
- ☐ Neither statement is true



**Correct**

Correct! Microservices are easily replicated and this can provide both scale and robustness.

10. Which are the advantages of microservices? Choose the **two correct** answers.

1 / 1 poi

☐ Performance is very good

☒ Small teams can develop microservices quickly



**Correct**

Correct! Each microservice has a small responsibility that can be built by a small team in a short timeframe.

☐ Testing is simple

☒ Services can be scaled independently



**Correct**

Correct! Services can be scaled (often by replication) as needed without scaling other services.

11. How can you pass parameters in a REST call? Select the **two correct** answers.

0 / 1 poi

☒ In the HTTP header



**This should not be selected**

Incorrect. Some information is passed in the HTTP header (such as the input format) but not parameters.

☐ In the SOAP header

☐ In XML

☒ In the URL



**Correct**

Correct! You can pass parameters in the URL

12. Consider the following two statements about RESTful web services. Choose the one correct option

1 / 1 poi

1. Requests can be sent in simple text
2. PUT is usually used to create new resource

☒ Only the first statement is true

☐ Only the second statement is true

☐ Both statements are true

☐ Neither statement is true



**Correct**

Correct! Requests can be sent in XML or JSON format or simple text. Of course, the REST service has to be configured to process the simple text.