

What is claimed is:

1. A computer-implemented method for accessing content comprising:

obtaining, by a network computing and storage provider, a request for content from a browser instance on a client computing device, wherein the requested content comprises a network resource referencing one or more embedded resources, wherein the browser instance on the client computing device includes one or more local interface components and a content display area for displaying content provided by the network computing and storage provider, and wherein the one or more local interface components comprise user interface controls controlled by software processes executing locally at the client computing device;

obtaining, by the network computing and storage provider, the network resource and the one or more embedded resources from one or more content providers;

processing, by the network computing and storage provider, the network resource and the one or more embedded resources to generate a processing result for use in generating a representation of the requested content on an instantiated browser application;

transmitting, by the network computing and storage provider, the processing result to the browser instance on the client computing device in accordance with a browser protocol configuration, wherein the browser protocol configuration identifies at least one display-based communication protocol and wherein the client computing device causes the representation of the requested content to be displayed in the content display area of the browser instance on the client computing device;

obtaining, by the network computing and storage provider, interaction data from the browser instance on the client computing device in accordance with the browser protocol configuration, the interaction data based on a user interaction with the representation of the requested content displayed in the content display area, wherein the interaction data does not include user interactions with the one or more local interface components;

generating, by the network computing and storage provider, an updated processing result for use in generating an updated representation of the requested content, wherein the updated processing result is generated by the network computing and storage provider based on the requested content and the interaction data; and

transmitting, by the network computing and storage provider, the updated processing result to the browser instance on the client computing device in accordance with the browser protocol configuration, wherein the client computing device causes the updated representation of the requested content to be displayed in the content display area of the

browser instance on the client computing device.

2. The computer-implemented method of claim 1, wherein the requested content can be processed in a plurality of processing actions.
3. The computer-implemented method of claim 2, wherein all of the plurality of processing actions are performed at the network computing and storage provider.
4. The computer-implemented method of claim 1, wherein the processing result does not include representations of local interface components associated with the browser instance on the client computing device.
5. The computer-implemented method of claim 1, wherein the display-based communication protocol includes as selection of at least one of a remote desktop display protocol and a virtual network computing desktop protocol.
6. A system for accessing content comprising:
 - one or more computer processors;
 - at least one computer memory accessible by at least one of the one or more computer processors; and
 - a network-based application instantiated on a network computing component, the network-based application comprising an executable software module executed by the one or more computer processors, wherein the network-based application executes on a virtual machine instance instantiated responsive to a request for network content obtained from an application instantiated on a client computing device, and wherein the network-based application is operable to:
 - obtain a request for network content from the application instantiated on the client computing device, wherein the application instantiated on the client computing device includes one or more local interface components for obtaining local user interactions and a content display area for displaying content; and
 - transmit a processing result to the application instantiated on the client computing device in accordance with a display protocol configuration, wherein the display protocol configuration identifies at least one display based communication protocol, wherein the processing result corresponds to a processing of the requested network content for use in

generating a representation of the requested content, and wherein the client computing device causes the representation of the requested network content to be displayed in the content display area of the application instantiated on the client computing device.

7. The system of claim 6, wherein the network-based application instantiated on the network computing component is further operable to:

obtain interaction data from the application instantiated on the client computing device, the interaction data based on a user interaction with the representation of the requested network content displayed in the content display area, wherein the interaction data does not include local user interactions based on user interaction with the one or more local interface components; and

transmit updated processing results for use in generating an updated representation of the requested network content to the application instantiated on the client computing device in accordance with the display protocol configuration, wherein the client computing device causes the updated representation of the requested network content to be displayed in the content display area of the application instantiated on the client computing device.

8. The system as recited in claim 7, wherein the network-based application instantiated on a network computing component is further operable to generate the updated processing results for use in generating an updated representation of the requested network content, and wherein the updated processing results are generated by the network computing component based on the requested network content and the interaction data.

9. The system of claim 6, wherein the one or more local interface components comprise user interface controls controlled by software processes executing locally at the client computing device.

10. The system as recited in claim 6, wherein the network-based application instantiated on a network computing component is further operable to generate the processing result for use in generating a representation of the requested network content.

11. The system of claim 6, wherein the requested network content comprises a network resource referencing one or more embedded resources.

12. The system of claim 6, wherein the requested network content can be processed in a plurality of processing actions.

13. The system of claim 12, wherein all of the plurality of processing actions are performed at the network computing component.

14. A computer-implemented method for accessing content comprising:

obtaining, by a network-based application instantiated on a network computing component, a request for network content from an application instantiated on a client computing device, wherein the network-based application executes on a virtual machine instance instantiated responsive to the request for network content obtained from the application instantiated on the client computing device, and wherein the application instantiated on the client computing device includes one or more local interface components for obtaining local user interaction and a content display area for displaying content; and

transmitting, by the network-based application instantiated on the network computing component, a processing result to the application instantiated on the client computing device in accordance with a display protocol configuration, wherein the display protocol configuration identifies at least one display based communication protocol, wherein the processing result corresponds to a processing of the requested network content for use in generating a representation of the requested network content, and wherein the client computing device causes a representation of the requested network content to be displayed in the content display area of the application instantiated on the client computing device.

15. The method of claim 14 further comprising:

obtaining, by the network-based application instantiated on the network computing component, interaction data from the application instantiated on the client computing device, the interaction data based on a user interaction with the representation of the requested network content displayed in the content display area, wherein the interaction data does not include local user interactions based on user interaction with the one or more local interface components; and

transmitting, by the network-based application instantiated on the network computing component, updated processing results for use in generating an updated representation of the requested network content to the application instantiated on the client computing device in accordance with the display protocol configuration, wherein the client computing device

causes the updated representation of the requested network content to be displayed in the content display area of the application instantiated on the client computing device.

16. The method of claim 15 further comprising generating, by the network-based application instantiated on the network computing component, the updated processing results for use in generating an updated representation of the requested content, wherein the updated processing results are generated by the network computing component based on the requested content and the interaction data.

17. The method of claim 15, wherein the interaction data is based on a user interaction with the representation of the requested network content.

18. The method of claim 15, wherein the one or more local interface components comprise user interface controls controlled by software processes executing locally at the client computing device.

19. The method as recited in claim 14 further comprising, generating, by the network-based application instantiated on the network computing component, a processing result for use in generating a representation of the requested network content.

20. The method of claim 14, wherein the requested network content comprises a network resource referencing one or more embedded resources.

21. The method of claim 14, wherein the requested network content can be processed in a plurality of processing actions.

22. The method of claim 21 further comprising, performing, by the network-based application instantiated on the network computing component, the plurality of processing actions.

WHAT IS CLAIMED IS:

1. A system for accessing content comprising:

one or more computer processors;

at least one computer memory accessible by at least one of the one or more computer processors; and

a network-based application instantiated on a network computing component, the network-based application comprising an executable software module executed by the one or more computer processors, wherein the network-based application is operable to:

obtain a request for network content from an application instantiated on a client computing device, wherein the application instantiated on the client computing device includes one or more local interface components for obtaining local user interactions and a content display area for displaying content; and

transmit a processing result to the application instantiated on the client computing device in accordance with a display protocol configuration, wherein the display protocol configuration identifies at least one display based communication protocol, wherein the processing result corresponds to a processing of the requested network content for use in generating a representation of the requested content, and wherein the client computing device causes the representation of the requested network content to be displayed in the content display area of the application instantiated on the client computing device.

2. The system of Claim 1, wherein the network-based application instantiated on the network computing component is further operable to:

obtain interaction data from the application instantiated on the client computing device, the interaction data based on a user interaction with the representation of the requested network content displayed in the content display area, wherein the interaction data does not include local user interactions based on user interaction with the one or more local interface components; and

transmit updated processing results for use in generating an updated representation of the requested network content to the application instantiated on the client computing device in accordance with the display protocol configuration,

wherein the client computing device causes the updated representation of the requested network content to be displayed in the content display area of the application instantiated on the client computing device.

3. The system as recited in Claim 2, wherein the network-based application instantiated on a network computing component is further operable to generate the updated processing results for use in generating an updated representation of the requested network content, and wherein the updated processing results are generated by the network computing component based on the requested network content and the interaction data.
4. The system of Claim 1, wherein the one or more local interface components comprise user interface controls controlled by software processes executing locally at the client computing device.
5. The system as recited in Claim 1, wherein the network-based application instantiated on a network computing component is further operable to generate the processing result for use in generating a representation of the requested network content.
6. The system of Claim 1, wherein the requested network content can be processed in a plurality of processing actions.
7. The system of Claim 6, wherein all of the plurality of processing actions are performed at the network computing component.
8. The system of Claim 1, wherein the network-based application instantiated on the network computing component corresponds to an application executing on a virtual machine instance, wherein the virtual machine instance is instantiated responsive to the request for network content obtained from the application instantiated on a client computing device.
9. A computer-implemented method for accessing content comprising:
 - obtaining, by a network-based application instantiated on a network computing component, a request for network content from an application instantiated on a client computing device, wherein the application instantiated on the client computing device includes one or more local interface components for obtaining local user interaction and a content display area for displaying content; and
 - transmitting, by the network-based application instantiated on the network computing component, a processing result to the application instantiated on the client

computing device in accordance with a display protocol configuration, wherein the display protocol configuration identifies at least one display based communication protocol, wherein the processing result corresponds to a processing of the requested network content for use in generating a representation of the requested network content, and wherein the client computing device causes a representation of the requested network content to be displayed in the content display area of the application instantiated on the client computing device.

10. The method of Claim 9 further comprising:

obtaining, by the network-based application instantiated on the network computing component, interaction data from the application instantiated on the client computing device, the interaction data based on a user interaction with the representation of the requested network content displayed in the content display area, wherein the interaction data does not include local user interactions based on user interaction with the one or more local interface components; and

transmitting, by the network-based application instantiated on the network computing component, updated processing results for use in generating an updated representation of the requested network content to the application instantiated on the client computing device in accordance with the display protocol configuration, wherein the client computing device causes the updated representation of the requested network content to be displayed in the content display area of the application instantiated on the client computing device.

11. The method of Claim 10 further comprising generating, by the network-based application instantiated on the network computing component, the updated processing results for use in generating an updated representation of the requested content, wherein the updated processing results are generated by the network computing component based on the requested content and the interaction data.

12. The method of Claim 10, wherein the interaction data is based on a user interaction with the representation of the requested network content.

13. The method of Claim 10, wherein the one or more local interface components comprise user interface controls controlled by software processes executing locally at the client computing device.

14. The method as recited in Claim 9 further comprising, generating, by the network-based application instantiated on the network computing component, a

processing result for use in generating a representation of the requested network content.

15. The method of Claim 9, wherein the requested network content comprises a network resource referencing one or more embedded resources.
16. The method of Claim 9, wherein the requested network content can be processed in a plurality of processing actions.
17. The method of Claim 16 further comprising, performing, by the network-based application instantiated on the network computing component, the plurality of processing actions.
18. The method of Claim 9, wherein the network-based application instantiated on the network computing component corresponds to an application executing on a virtual machine instance, wherein the virtual machine instance is instantiated responsive to the request for network content obtained from the application instantiated on the client computing device.