

git_comments:

1. * * @param fixedIp the fixedIp to set
2. * *
3. * * @param networkUuid the networkUuid to set
4. * * @author Jeffrey Nguyen *
5. * * @return the fixedIp
6. * * @return the networkUuid
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8. * * @param portUuid the portUuid to set
9. * * @return the portUuid
10. * * @param networkInterfaces the networkInterfaces to set
11. * * @return the networkInterfaces
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13. * * Had to wrap {@link NetworkInterface} array using a class, since there's a bug in current * stub generation. * * @author Jeffrey Nguyen *
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15. * * @author Jeffrey Nguyen *
16. * * @param networkInterfaces the networkInterfaces to set
17. * * @return the networkInterfaces
18. * * Network Interfaces Configuration
19. * * @param networkInterfaces the networkInterfaces to set
20. * * @return the networkInterfaces

git_commits:

1. **summary:** applying patch for STRATOS-507 - provided by jeffrey
message: applying patch for STRATOS-507 - provided by jeffrey

github_issues:**github_issues_comments:****github_pulls:****github_pulls_comments:**

github_pulls_reviews:

jira_issues:

1. **summary:** Support to assign fixed private IPs and Port number in addition to network UUIDs for cartridges

description: Hi Stratos Devs, I'm currently working on Stratos enhancement to leverage new network API supported by jClouds [1]. In the current environment, when we attached a list of network UUIDs to a cartridge and subscribe to this cartridge, the new instance will have private IPs randomly assigned to each network. We need the ability to specify fixed private IP for each network. In addition to fixed private IPs, we could also assign port UUIDs or whatever the underlined Iaas supports for the networks configuration. I am currently working on jClouds enhancement [1]. This JIRA is for the changes required on Stratos side. Please see [3] below on how the private IPs are specified in the JSON payload. In the existing implementation of multiple networks [2], the JSON cartridge definition can specify multiple networks like one below. { "name": "networkInterfaces", "value": "fb9c21f4-0672-48b2-8279-77334bb63a53,aa1809a2-c32d-4eb8-a5c5-e46f692416e0,1e43f86f-4165-4f2e-8017-dd4cfb5548b0" } With this new enhancement, the JSON cartridge definition can specify multiple networks and fixed private IPs like one below. { "name": "networkInterfaces", "value": "[{\\"uuid\\":\\"fb9c21f4-0672-48b2-8279-77334bb63a53\\",\\"fixed_ip\\":\\"172.16.0.10\\"},{\\"uuid\\":\\"aa1809a2-c32d-4eb8-a5c5-e46f692416e0\\",\\"fixed_ip\\":\\"172.16.1.11\\"}]" } Questions: - Should introduce new property for the new format or should I just use existing "networkInterfaces" properties, which implies fixing [2]? When invoking jClouds API, we should set the value one way or the other, but not both. - In the current implementation of Stratos, all cartridge properties are treated as String. Therefore, with this new enhancement, the networks tuples need to escape the double quotes. Is this okay? Please let me know what you think. Regards, -Jeffrey [1] <https://issues.apache.org/jira/browse/JCLOUDS-493> [2] <https://issues.apache.org/jira/browse/STRATOS-180> [3] OpenStack JSON payload for creating server with network uuid and fixed private IP: {"server":{"name":"testp-e12","imageRef":"66dac7ce-992c-43a4-b765-029c0b6fc1fe","flavorRef":"1d89ff82-5981-4a14-91e5-fc769f82a2f9","metadata":{"jclouds-group":"testp"},"key_name":"test","security_groups":[{"name":"default"}],"user_data":"U0VSVk...VAX","networks":[{"uuid":"fb9c21f4-0672-48b2-8279-77334bb63a53","fixed_ip":"172.16.0.10"}, {"uuid":"aa1809a2-c32d-4eb8-a5c5-e46f692416e0","fixed_ip":"172.16.1.11"}, {"uuid":"1e43f86f-4165-4f2e-8017-dd4cfb5548b0","fixed_ip":"172.16.2.12"}]}}

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label: code-design

3. **summary:** Support to assign fixed private IPs and Port number in addition to network UUIDs for cartridges

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```

9. **summary:** Support to assign fixed private IPs and Port number in addition to network UUIDs for cartridges

description: Hi Stratos Devs, I'm currently working on Stratos enhancement to leverage new network API supported by jClouds [1]. In the current environment, when we attached a list of network UUIDs to a cartridge and subscribe to this cartridge, the new instance will have private IPs randomly assigned to each network. We need the ability to specify fixed private IP for each network. In addition to fixed private IPs, we could also assign port UUIDs or whatever the underlined Iaas supports for the networks configuration. I am currently working on jClouds enhancement [1]. This JIRA is for the changes required on Stratos side. Please see [3] below on how the private IPs are specified in the JSON payload. In the existing implementation of multiple networks [2], the JSON cartridge definition can specify multiple networks like one below. { "name": "networkInterfaces", "value": "fb9c21f4-0672-48b2-8279-77334bb63a53,aa1809a2-c32d-4eb8-a5c5-e46f692416e0,1e43f86f-4165-4f2e-8017-dd4cfb5548b0" } With this new enhancement, the JSON cartridge definition can specify multiple networks and fixed private IPs like one below. { "name": "networkInterfaces", "value": "[{\\"uuid\\":\\"fb9c21f4-0672-48b2-8279-77334bb63a53\\",\\"fixed_ip\\":\\"172.16.0.10\\"},{\\"uuid\\":\\"aa1809a2-c32d-4eb8-a5c5-e46f692416e0\\",\\"fixed_ip\\":\\"172.16.1.11\\"}]" } Questions: - Should introduce new property for the new format or should I just use existing "networkInterfaces" properties, which implies fixing [2]? When invoking jClouds API, we should set the value one way or the other, but not both. - In the current implementation of Stratos, all cartridge properties are treated as String. Therefore, with this new enhancement, the networks tuples need to escape the double quotes. Is this okay? Please let me know what you think. Regards, -Jeffrey [1] <https://issues.apache.org/jira/browse/JCLOUDS-493> [2] <https://issues.apache.org/jira/browse/STRATOS-180> [3] OpenStack JSON payload for creating server with network uuid and fixed private IP: {"server":{"name":"testp-e12","imageRef":"66dac7ce-992c-43a4-b765-029c0b6fc1fe","flavorRef":"1d89ff82-5981-4a14-91e5-fc769f82a2f9","metadata":{"jclouds-group":"testp"},"key_name":"test","security_groups":[{"name":"default"}],"user_data":"U0VSVk...VAX","networks":[{"uuid":"fb9c21f4-0672-48b2-8279-77334bb63a53","fixed_ip":"172.16.0.10"}, {"uuid":"aa1809a2-c32d-4eb8-a5c5-e46f692416e0","fixed_ip":"172.16.1.11"}, {"uuid":"1e43f86f-4165-4f2e-8017-dd4cfb5548b0","fixed_ip":"172.16.2.12"}]}}

10. **summary:** Support to assign fixed private IPs and Port number in addition to network UUIDs for cartridges

description: Hi Stratos Devs, I'm currently working on Stratos enhancement to leverage new network API supported by jClouds [1]. In the current environment, when we attached a list of network UUIDs to a cartridge and subscribe to this cartridge, the new instance will have private IPs randomly assigned to each network. We need the ability to specify fixed private IP for each network. In addition to fixed private IPs, we could also assign port UUIDs or whatever the underlined Iaas supports for the networks configuration. I am currently working on jClouds enhancement [1]. This JIRA is for the changes required on Stratos side. Please see [3] below on how the private IPs are specified in the JSON payload. In the existing implementation of multiple networks [2], the JSON cartridge definition can specify multiple networks like one below. { "name": "networkInterfaces", "value": "fb9c21f4-0672-48b2-8279-77334bb63a53,aa1809a2-c32d-4eb8-a5c5-e46f692416e0,1e43f86f-4165-4f2e-8017-dd4cfb5548b0" } With this new enhancement, the JSON cartridge definition can specify multiple networks and fixed private IPs like one below. { "name": "networkInterfaces", "value": "[{\\"uuid\\":\\"fb9c21f4-0672-48b2-8279-77334bb63a53\\",\\"fixed_ip\\":\\"172.16.0.10\\"},{\\"uuid\\":\\"aa1809a2-c32d-4eb8-a5c5-e46f692416e0\\",\\"fixed_ip\\":\\"172.16.1.11\\"}]" } Questions: - Should introduce new property for the new format or should I just use existing "networkInterfaces" properties, which implies fixing [2]? When invoking jClouds API, we should set the value one way or the other, but not both. - In the current implementation of Stratos, all cartridge properties are treated as String. Therefore, with this new enhancement, the networks tuples need to escape the double quotes. Is this okay? Please let me know what you think. Regards, -Jeffrey [1] <https://issues.apache.org/jira/browse/JCLOUDS-493> [2] <https://issues.apache.org/jira/browse/STRATOS-180> [3] OpenStack JSON payload for creating server with network uuid and fixed private IP: {"server":{"name":"testp-e12","imageRef":"66dac7ce-992c-43a4-b765-029c0b6fc1fe","flavorRef":"1d89ff82-5981-4a14-91e5-fc769f82a2f9","metadata":{"jclouds-group":"testp"},"key_name":"test","security_groups":[{"name":"default"}],"user_data":"U0VSVk...VAX","networks":[{"uuid":"fb9c21f4-0672-48b2-8279-77334bb63a53","fixed_ip":"172.16.0.10"}, {"uuid":"aa1809a2-c32d-4eb8-a5c5-

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e46f692416e0","fixed_ip":"172.16.1.11"},{"uuid":"1e43f86f-4165-4f2e-8017-dd4cfb5548b0","fixed_ip":"172.16.2.12"}]}}
```

11. **summary:** Support to assign fixed private IPs and Port number in addition to network UUIDs for cartridges

description: Hi Stratos Devs, I'm currently working on Stratos enhancement to leverage new network API supported by jClouds [1]. In the current environment, when we attached a list of network UUIDs to a cartridge and subscribe to this cartridge, the new instance will have private IPs randomly assigned to each network. We need the ability to specify fixed private IP for each network. In addition to fixed private IPs, we could also assign port UUIDs or whatever the underlined Iaas supports for the networks configuration. I am currently working on jClouds enhancement [1]. This JIRA is for the changes required on Stratos side. Please see [3] below on how the private IPs are specified in the JSON payload. In the existing implementation of multiple networks [2], the JSON cartridge definition can specify multiple networks like one below. { "name": "networkInterfaces", "value": "fb9c21f4-0672-48b2-8279-77334bb63a53,aa1809a2-c32d-4eb8-a5c5-e46f692416e0,1e43f86f-4165-4f2e-8017-dd4cfb5548b0" } With this new enhancement, the JSON cartridge definition can specify multiple networks and fixed private IPs like one below. { "name": "networkInterfaces", "value": "[{\\"uuid\\":\\"fb9c21f4-0672-48b2-8279-77334bb63a53\\",\\"fixed_ip\\":\\"172.16.0.10\\"},{\\"uuid\\":\\"aa1809a2-c32d-4eb8-a5c5-e46f692416e0\\",\\"fixed_ip\\":\\"172.16.1.11\\"}]" } Questions: - Should introduce new property for the new format or should I just use existing "networkInterfaces" properties, which implies fixing [2]? When invoking jClouds API, we should set the value one way or the other, but not both. - In the current implementation of Stratos, all cartridge properties are treated as String. Therefore, with this new enhancement, the networks tuples need to escape the double quotes. Is this okay? Please let me know what you think. Regards, -Jeffrey [1] <https://issues.apache.org/jira/browse/JCLOUDS-493> [2] <https://issues.apache.org/jira/browse/STRATOS-180> [3] OpenStack JSON payload for creating server with network uuid and fixed private IP: {"server":{"name":"testp-e12","imageRef":"66dac7ce-992c-43a4-b765-029c0b6fc1fe","flavorRef":"1d89ff82-5981-4a14-91e5-fc769f82a2f9","metadata":{"jclouds-group":"testp"},"key_name":"test","security_groups":[{"name":"default"}],"user_data":"U0VSVk...VAX","networks":[{"uuid":"fb9c21f4-0672-48b2-8279-77334bb63a53","fixed_ip":"172.16.0.10"}, {"uuid":"aa1809a2-c32d-4eb8-a5c5-e46f692416e0","fixed_ip":"172.16.1.11"}, {"uuid":"1e43f86f-4165-4f2e-8017-dd4cfb5548b0","fixed_ip":"172.16.2.12"}]}}

12. **summary:** Support to assign fixed private IPs and Port number in addition to network UUIDs for cartridges

description: Hi Stratos Devs, I'm currently working on Stratos enhancement to leverage new network API supported by jClouds [1]. In the current environment, when we attached a list of network UUIDs to a cartridge and subscribe to this cartridge, the new instance will have private IPs randomly assigned to each network. We need the ability to specify fixed private IP for each network. In addition to fixed private IPs, we could also assign port UUIDs or whatever the underlined Iaas supports for the networks configuration. I am currently working on jClouds enhancement [1]. This JIRA is for the changes required on Stratos side. Please see [3] below on how the private IPs are specified in the JSON payload. In the existing implementation of multiple networks [2], the JSON cartridge definition can specify multiple networks like one below. { "name": "networkInterfaces", "value": "fb9c21f4-0672-48b2-8279-77334bb63a53,aa1809a2-c32d-4eb8-a5c5-e46f692416e0,1e43f86f-4165-4f2e-8017-dd4cfb5548b0" } With this new enhancement, the JSON cartridge definition can specify multiple networks and fixed private IPs like one below. { "name": "networkInterfaces", "value": "[{\\"uuid\\":\\"fb9c21f4-0672-48b2-8279-77334bb63a53\\",\\"fixed_ip\\":\\"172.16.0.10\\"},{\\"uuid\\":\\"aa1809a2-c32d-4eb8-a5c5-e46f692416e0\\",\\"fixed_ip\\":\\"172.16.1.11\\"}]" } Questions: - Should introduce new property for the new format or should I just use existing "networkInterfaces" properties, which implies fixing [2]? When invoking jClouds API, we should set the value one way or the other, but not both. - In the current implementation of Stratos, all cartridge properties are treated as String. Therefore, with this new enhancement, the networks tuples need to escape the double quotes. Is this okay? Please let me know what you think. Regards, -Jeffrey [1] <https://issues.apache.org/jira/browse/JCLOUDS-493> [2] <https://issues.apache.org/jira/browse/STRATOS-180> [3] OpenStack JSON payload for creating server with network uuid and fixed private IP: {"server":{"name":"testp-e12","imageRef":"66dac7ce-992c-43a4-b765-029c0b6fc1fe","flavorRef":"1d89ff82-5981-4a14-91e5-fc769f82a2f9","metadata":{"jclouds-group":"testp"},"key_name":"test","security_groups":[{"name":"default"}],"user_data":"U0VSVk...VAX","networks":[{"uuid":"fb9c21f4-0672-48b2-8279-77334bb63a53","fixed_ip":"172.16.0.10"}, {"uuid":"aa1809a2-c32d-4eb8-a5c5-

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e46f692416e0","fixed_ip":"172.16.1.11"},{"uuid":"1e43f86f-4165-4f2e-8017-dd4cfb5548b0","fixed_ip":"172.16.2.12"}]}}
```

13. **summary:** Support to assign fixed private IPs and Port number in addition to network UUIDs for cartridges

description: Hi Stratos Devs, I'm currently working on Stratos enhancement to leverage new network API supported by jClouds [1]. In the current environment, when we attached a list of network UUIDs to a cartridge and subscribe to this cartridge, the new instance will have private IPs randomly assigned to each network. We need the ability to specify fixed private IP for each network. In addition to fixed private IPs, we could also assign port UUIDs or whatever the underlined Iaas supports for the networks configuration. I am currently working on jClouds enhancement [1]. This JIRA is for the changes required on Stratos side. Please see [3] below on how the private IPs are specified in the JSON payload. In the existing implementation of multiple networks [2], the JSON cartridge definition can specify multiple networks like one below. { "name": "networkInterfaces", "value": "fb9c21f4-0672-48b2-8279-77334bb63a53,aa1809a2-c32d-4eb8-a5c5-e46f692416e0,1e43f86f-4165-4f2e-8017-dd4cfb5548b0" } With this new enhancement, the JSON cartridge definition can specify multiple networks and fixed private IPs like one below. { "name": "networkInterfaces", "value": "[{\\"uuid\\":\\"fb9c21f4-0672-48b2-8279-77334bb63a53\\",\\"fixed_ip\\":\\"172.16.0.10\\"},{\\"uuid\\":\\"aa1809a2-c32d-4eb8-a5c5-e46f692416e0\\",\\"fixed_ip\\":\\"172.16.1.11\\"}]" } Questions: - Should introduce new property for the new format or should I just use existing "networkInterfaces" properties, which implies fixing [2]? When invoking jClouds API, we should set the value one way or the other, but not both. - In the current implementation of Stratos, all cartridge properties are treated as String. Therefore, with this new enhancement, the networks tuples need to escape the double quotes. Is this okay? Please let me know what you think. Regards, -Jeffrey [1] <https://issues.apache.org/jira/browse/JCLOUDS-493> [2] <https://issues.apache.org/jira/browse/STRATOS-180> [3] OpenStack JSON payload for creating server with network uuid and fixed private IP: {"server":{"name":"testp-e12","imageRef":"66dac7ce-992c-43a4-b765-029c0b6fc1fe","flavorRef":"1d89ff82-5981-4a14-91e5-fc769f82a2f9","metadata":{"jclouds-group":"testp"},"key_name":"test","security_groups":[{"name":"default"}],"user_data":"U0VSVk...VAX","networks":[{"uuid":"fb9c21f4-0672-48b2-8279-77334bb63a53","fixed_ip":"172.16.0.10"}, {"uuid":"aa1809a2-c32d-4eb8-a5c5-e46f692416e0","fixed_ip":"172.16.1.11"}, {"uuid":"1e43f86f-4165-4f2e-8017-dd4cfb5548b0","fixed_ip":"172.16.2.12"}]}}

14. **summary:** Support to assign fixed private IPs and Port number in addition to network UUIDs for cartridges

description: Hi Stratos Devs, I'm currently working on Stratos enhancement to leverage new network API supported by jClouds [1]. In the current environment, when we attached a list of network UUIDs to a cartridge and subscribe to this cartridge, the new instance will have private IPs randomly assigned to each network. We need the ability to specify fixed private IP for each network. In addition to fixed private IPs, we could also assign port UUIDs or whatever the underlined Iaas supports for the networks configuration. I am currently working on jClouds enhancement [1]. This JIRA is for the changes required on Stratos side. Please see [3] below on how the private IPs are specified in the JSON payload. In the existing implementation of multiple networks [2], the JSON cartridge definition can specify multiple networks like one below. { "name": "networkInterfaces", "value": "fb9c21f4-0672-48b2-8279-77334bb63a53,aa1809a2-c32d-4eb8-a5c5-e46f692416e0,1e43f86f-4165-4f2e-8017-dd4cfb5548b0" } With this new enhancement, the JSON cartridge definition can specify multiple networks and fixed private IPs like one below. { "name": "networkInterfaces", "value": "[{\\"uuid\\":\\"fb9c21f4-0672-48b2-8279-77334bb63a53\\",\\"fixed_ip\\":\\"172.16.0.10\\"},{\\"uuid\\":\\"aa1809a2-c32d-4eb8-a5c5-e46f692416e0\\",\\"fixed_ip\\":\\"172.16.1.11\\"}]" } Questions: - Should introduce new property for the new format or should I just use existing "networkInterfaces" properties, which implies fixing [2]? When invoking jClouds API, we should set the value one way or the other, but not both. - In the current implementation of Stratos, all cartridge properties are treated as String. Therefore, with this new enhancement, the networks tuples need to escape the double quotes. Is this okay? Please let me know what you think. Regards, -Jeffrey [1] <https://issues.apache.org/jira/browse/JCLOUDS-493> [2] <https://issues.apache.org/jira/browse/STRATOS-180> [3] OpenStack JSON payload for creating server with network uuid and fixed private IP: {"server":{"name":"testp-e12","imageRef":"66dac7ce-992c-43a4-b765-029c0b6fc1fe","flavorRef":"1d89ff82-5981-4a14-91e5-fc769f82a2f9","metadata":{"jclouds-group":"testp"},"key_name":"test","security_groups":[{"name":"default"}],"user_data":"U0VSVk...VAX","networks":[{"uuid":"fb9c21f4-0672-48b2-8279-77334bb63a53","fixed_ip":"172.16.0.10"}, {"uuid":"aa1809a2-c32d-4eb8-a5c5-


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15. **summary:** Support to assign fixed private IPs and Port number in addition to network UUIDs for cartridges

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16. **summary:** Support to assign fixed private IPs and Port number in addition to network UUIDs for cartridges

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e46f692416e0","fixed_ip":"172.16.1.11"}, {"uuid":"1e43f86f-4165-4f2e-8017-dd4cfb5548b0","fixed_ip":"172.16.2.12"}] ] }
```

jira_issues_comments:

1. Hi Jeffrey , Why can't we also follow the same as openstack payload structure in the cartridge definition. As we support json array in the cartridge definition, it would be nice, if you could also follow the same. We can introduce a new section for the network in the cartridge definition rather than pushing all the network interfaces as string into the cartridge properties. Would you think that the following will be cleaner in this case? For Eg: In order to just define the network interfaces
===== "network" : [{ "uuid": "fb9c21f4-0672-48b2-8279-77334bb63a53", "elasticIp" : true }, { "uuid": "aa1809a2-c32d-4eb8-a5c5-e46f692416e0", "elasticIp" : true }, { "uuid": "aa1809a2-c32d-4eb8-a5c5-e46f692416e0", "elasticIp" : true }] Network interfaces with fixedip ===== "network" : [{ "uuid": "fb9c21f4-0672-48b2-8279-77334bb63a53", "fixedIp": "172.16.0.10" }, { "uuid": "aa1809a2-c32d-4eb8-a5c5-e46f692416e0", "fixedIp" : "172.16.0.11" }, { "uuid": "aa1809a2-c32d-4eb8-a5c5-e46f692416e0", "fixedIp" : "172.16.0.12" }]
2. **body:** Thanks Reka for the comment. I like that suggestion of pulling this out of the Cartridge Property section. Two questions I have for you: 1/- When we do that, should we remove the "networkInterfaces" property under Cartridge Property section since it doesn't make sense to have both co-exist? 2/- Based on OpenStack specs (<http://docs.openstack.org/api/openstack-compute/2/content/NetworksSection.html>), you can only have 3 attributes: network UUID, fixed_ip, and port UUID. I'm not sure what the "elasticIp" is used for. Ideally, having just the valid network attributes in the JSON object will make it easier to process and more efficient. Copied Nirmal too since he introduced the "networkInterfaces" under Cartridge Property. Regards, -Jeffrey
label: code-design
3. On Tue, Mar 11, 2014 at 10:08 PM, Jeffrey Nguyen (jeffrngu) <+1 -- Best Regards, Nirmal Nirmal Fernando. PPMC Member & Committer of Apache Stratos, Senior Software Engineer, WSO2 Inc. Blog: <http://nirmalfdo.blogspot.com/>
4. Hi Jeffery, For 1) Yah. +1. Please remove the network from cartridge properties. 2) I have added elasticIp for the stratos usage only. May be we can survive without that also. We will adhere to openstack spec here then. Regarding port, if stratos use it at any point, we can use port as well. Else, we will leave port and use only uuid and fixedIp. Also, we normally adhere to cartridge definition convention when making element name. For Eg: better to have fixedIp than fixed_ip. After the suggestions, i hope that we can follow up like below: In order to just define the network interfaces
===== "network" : [{ "uuid": "fb9c21f4-0672-48b2-8279-77334bb63a53"}, { "uuid": "aa1809a2-c32d-4eb8-a5c5-e46f692416e0"}, { "uuid": "aa1809a2-c32d-4eb8-a5c5-e46f692416e0"}] Network interfaces with fixedip ===== "network" : [{ "uuid": "fb9c21f4-0672-48b2-8279-77334bb63a53", "fixedIp": "172.16.0.10" }, { "uuid": "aa1809a2-c32d-4eb8-a5c5-e46f692416e0", "fixedIp" : "172.16.0.11" }, { "uuid": "aa1809a2-c32d-4eb8-a5c5-e46f692416e0", "fixedIp" : "172.16.0.12" }] Thanks, Reka
5. Thank you Nirmal and Reka for confirming the removal of existing "networkInterfaces" and elasticIp properties. As for the naming convention for the for the fixed IP, correct me if I'm wrong but I thought the JSON payload is Iaas specific. It is processed as-is by the underlined Iaas. As such, for OpenStack, we can use "fixed_ip" for OpenStack based on [http://docs.openstack.org/api/openstack-compute/2/content/NetworksSection.h tml](http://docs.openstack.org/api/openstack-compute/2/content/NetworksSection.html). Otherwise, we need to have code at the OpenStack layer/adaptor to convert from "fixedIp" to "fixed_ip". Just to make sure we're all on the same page, my intention is to treat all these network properties as name/value pairs. There's no code to deal with specific network attributes. Also, where exactly do you suggest the new "network" config section be? Should it still be under "iaasProvider" but outside of the "property", or should it be some where outside of "iaasProvider" section? Thanks, -Jeffrey On 3/11/14 11:19 AM, "Reka Thirunavukkarasu (JIRA)" <jira@apache.org>
6. +1. Then we will go ahead using fixed_ip in order to avoid further code changes. Also +1 to make it is network properties as well. Do we have networks defined/configured per region or per zone? In that case, it would be better to have it as part of iaasProvider section. So that we can define the networks per region/zone wise in iaasProvider.
7. Thanks Reka! For the network properties, I'm getting opposition by one jClouds developer in making it generic name/value based in Map<String, String> structure. Please see the discussion on <https://issues.apache.org/jira/browse/JCLOUDS-493>. This is for the jClouds side enhancement to support

- Stratos side. If you want to see generic name/value pair support in jClouds, please voice your opinion. Otherwise, I would have to go with the approach suggested by this jClouds developer. In which case, we would have to explicitly check for existence of each network property on the Stratos side. -Jeffrey On 3/11/14 12:25 PM, "Reka Thirunavukkarasu (JIRA)" <jira@apache.org>
8. Hi Jeffrey, I went through the jira that you have pointed. So, still improvement to Map<String, String> need to be done in jclouds level. Until then, jclouds support on this, +1 to go ahead with the proposed approach.
 9. Hi Reka, I assume you were referring to Zack's proposed approach correct? -Jeffrey
 10. Hi Jeffrey, Yah..I meant the same..
 11. Please review the attached patch. As discussed above, "networkInterfaces" property under "iaasProvider" is now moved to a separate config section under "iaasProvider/networkInterfaces". It is a JSON array format. For OpenStack, each network tuple can support up to 3 parameters: networkUuid, fixedIp, and portUuid. For AWS, I made the change to support network UUID only. The change is needed since "networkInterfaces" is no longer under "iaasProvider/property". Devs are welcome to enhance AWS to support fixedIp, and portUuid if applicable. OpenStack: "cartridgeDefinitionBean": { ... "iaasProvider": [{ "imageId": "RegionOne/66dac7ce-992c-43a4-b765-029c0b6fc1fe", "maxInstanceLimit": "4", "property": [{ "name": "instanceType", "value": "RegionOne/1d89ff82-5981-4a14-91e5-fc769f82a2f9" }, ...], "networkInterfaces": [{ "networkUuid": "fb9c21f4-0672-48b2-8279-77334bb63a53", "fixedIp": "172.10.2.2" }, { "networkUuid": "aa1809a2-c32d-4eb8-a5c5-e46f692416e0", "fixedIp": "172.10.4.4" }, { "networkUuid": "1e43f86f-4165-4f2e-8017-dd4cfb5548b0" }], "type": "openstack-Core" }], "multiTenant": "false", "portMapping": [{ ... }], "property": [...], "version": "1.0" } } AWS: { "cartridgeDefinitionBean": { ... "deployment": { }, "iaasProvider": [{ "type": "ec2", "imageId": "ap-southeast-1/ami-16d78044", "maxInstanceLimit": "4", "property": [{ "name": "instanceType", "value": "m1.medium" }, { "name": "keyPair", "value": "nirmal-stratos" }], "networkInterfaces": [{ "networkUuid": "c076ab11-a76f-4409-8773-1a72201074fc" }, { "networkUuid": "c076ab11-a76f-4409-8773-1a72201075df" }] }] } }
 12. Please note that this JIRA depends on STRATOS-520, which is already resolved.
 13. I pulled master branch again and re-apply the patch. Please find updated patch attached. Thanks, -Jeffrey
 14. Patch is reviewed and committed in 7af2113c7a237742cfb895186878ef56797088b9.