Radio Edge Cloud (REC)

The Radio Edge Cloud blueprint is member of the Telco Appliance blueprint family which is designed to provide a fully integration tested appliance tuned to meet the requirements of the RAN Intelligent Controller (RIC). When complete it will include automated configuration and integration testing from the below the OS up through RIC (from https://gerrit.oran-osc.org/r/#/admin/projects/). As a member of the Telco Appliance blueprint family it shares many hardware and software components, including installation, configuration management and APIs with other family members. Each family member will be a separate appliance with a close family resemblance to its siblings.

Key Attributes

- Specific hardware configuration that are automatically tested via continuous deployment automation. Multiple hardware variations may be tested in parallel, but each tested configuration will be fully specified and reproducible.
- Specific pre-boot software (e.g. firmware/BIOS) will be specified as part of the CD tested configuration
- Reproducible software installation and configuration - an opinionated deployer will allow deployment of large numbers of sites with versioning that is traceable back to automated CD testing
- Modular building blocks assembled and tested (via CD automation) to ensure a guaranteed level of performance of the target application (RAN Intelligent Controller) while allowing other members of the family to assemble and tune the same modular building blocks to other target applications
- May be extended in the future to integrate RIC+other application, but still in an appliance with tested/guaranteed performance of the combined application set

Child Pages

- Porting REC on aarch64
- Radio Edge Cloud (REC) Team Membership
- Radio Edge Cloud (REC) Use Case Details
- Radio Edge Cloud Documentation
- Radio Edge Cloud Project Meetings
- Radio Edge Cloud Release 1 Milestone Certification
- Radio Edge Cloud Release 2 Maturity Review Certification
- REC Gerrit and Source Code

Issue Tracking

Open Bugs

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<th>Key</th>
<th>Summary</th>
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<tr>
<td>REC-79</td>
<td>CLOUDTAF - kube-services CICD test failing</td>
<td>Dec 02, 2019</td>
<td>TO DO</td>
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<tr>
<td>REC-71</td>
<td>Restore node to service after recovery from Kubelet failure</td>
<td>Nov 12, 2019</td>
<td>IN PROGRESS</td>
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<td>REC-68</td>
<td>Docker image pull is timing out</td>
<td>Nov 06, 2019</td>
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<td>REC-65</td>
<td>Internal server error (500) when pushing to internal registry</td>
<td>Sep 19, 2019</td>
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<tr>
<td>REC-62</td>
<td>Leverage standard HTTP status codes for Helm Chart Repository in REC</td>
<td>Sep 09, 2019</td>
<td>TO DO</td>
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<tr>
<td>REC-61</td>
<td>Helm Chart Repository Needs Client-side SSL authorization</td>
<td>Sep 09, 2019</td>
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6 issues

Open and Future Development

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<tr>
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<tr>
<td>REC-73</td>
<td>Develop Test Case to Test Versions of Blueprint Sub-components</td>
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<td>Issue</td>
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<td>REC-74</td>
<td>Add Openstack Layer Test cases to Unicycle Blueprint</td>
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<td>REC-69</td>
<td>Development of Robot tests for CI/CD</td>
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<td>REC-67</td>
<td>CD: testing services on Cloudtalf test suite in Middletown Jenkin</td>
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<td>REC-53</td>
<td>Rsyslog Performance Verification</td>
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<td>Elastic search storage test</td>
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<td>Exclusive pool check</td>
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<td>REC-41</td>
<td>Test DANIM</td>
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<td>REC-52</td>
<td>Rsyslog Target</td>
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<td>REC-54</td>
<td>Elastic Search Performance Verification</td>
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<td>Shared pool check</td>
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<td>Basic Functional Test</td>
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<td>Create release/build notes generator</td>
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<td>REC-19</td>
<td>Recovery Test Cases</td>
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<td>Creating and testing Services</td>
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<td>Creating container image to Docker repository</td>
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<td>REC-10</td>
<td>Creating and testing Physical interfaces</td>
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<td>REC-16</td>
<td>RBAC validation</td>
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Original Proposal Presentation: