2017-09-06 Meeting notes

Date

06 Sep 2017

Agenda Summary:

In total there 42 items that must be reviewed during the first quarterly call. Following is a schedule on how we are setting the time aside for each company based on number of things they have listed, on average - each item gets 1.5 minutes.

The presenter must stop at the time specified in table below for next speaker to proceed.

Please note - this is a very high level talk and we will not be going into finer details of how it will be implemented - due to time constraint.

Development Discussions

- **9:03 AM PST - 9:05 AM PST**
  - General information on how this call will be moderated
    - Moderator will give the presenter an option to decide how he wants to manage the time allotted for their projects
    - If presenter is finished before time allotted - he can choose to hold brief Q&A
    - We will be using Webex for this meeting and leverage chat for questions and answers. As presenter moves from one topic to the next, i will paste the topic name in chat and let attendees write their questions.
    - Due to time constraint - presenter does not have to answer the questions on the call and chat - but can do it as post on mailing lists
    - Moderator will take meeting notes and update this page
    - Moderator will ask the audience if they seen any concerns - if they do, their name will be noted and we will ask for presenter to take this discussion on dev list

- **9:06 AM PST - 9:26AM PST**
  - ShapeBlue - 14 items
- **9:27 AM PST - 9:40 AM PST**
  - Accelerite - 8 items
- **9:41 AM PST - 9:50 AM PST**
  - Nuage - 6 items
- **9:51 AM PST - 9:55 AM PST**
  - ENA - 2 items
- **9:56 AM PST - 10:00 AM PST**
  - CloudOps - 2 items

Community Discussions

- **10:01 AM PST - 10:10 AM PST**
  - Accelerite - 5 Items
- **10:11 AM PST - 10:20 AM PST**
  - ShapeBlue - 5 Items
- **10:21 AM PST - 10:30+ AM PST**
  - Next Steps

Development Efforts:

- Listed by number of items presenters need to discuss, sorted from highest to lower..

Company: ShapeBlue
Feature Name Securing Agent Comms (CA Framework)

- **Summary** The aim of this feature is to provide pluggable CA (certificate authority) management in CloudStack that can fetch/provision certificates to (new) host(s) and systemvms. As a default CA plugin, a root CA plugin will be implement where CloudStack becomes a self-signed Root Certificate Authority. Developers will have option to implement further integration with their TLS/SSL cert providers such as letsencrypt and other vendors.
- **FS_Jira** https://cwiki.apache.org/confluence/display/CLOUDSTACK/Secure+Agent+Communications
- **Lead Dev** R Yadav
- **Release Target** 4.11

Feature Name Error code framework

- **Summary** Aim is to get understandable, actionable errors out of CloudStack, ie not 'insufficient capacity'.
  BitWork Software have implemented some context based interpretation in their UI. We hope to work with them and others to implement a framework in side CloudStack)
- **FS_Jira** TBC
- **Lead Dev** D Hoogland
- **Release Target** TBC

Feature Name Enable Dedication of Public IP range to CPVM/SSVM

- **Summary** By dedicating a small public IP range to only CPVM and SSVM, firewall rules can be used to control inbound access to this smaller range without affecting public traffic destined for the VRs.
  Such security is a general best practice, but also highly desireable in PCI DSS compliant environments
- **FS_Jira** TBC
- **Lead Dev** TBC
- **Release Target** Q4 2017

Feature Name Multi-disk OVA import + Additional OVA metadata

- **Summary** Many users add data disks to their instances, migration of these between platforms (ie onboarding) is greatly simplified by being able to import mu
- **FS_Jira** TBC
- **Lead Dev** N Vasquez
- **Release Target** Q4 2017

Feature Name Fix and Update template checksum validation

- **Summary** the obsoletion of the md5 checksum algorithm requires that CloudStack checks downloaded templates by means of an alternative algorithm to the current one. The algorithm type should be configurable and include both the obfuscated MD5 and, as an example SHA256.
- **FS_Jira** https://cwiki.apache.org/confluence/display/CLOUDSTACK/SHA256+checksums+for+checking+uploads
- **Lead Dev** TBC
- **Release Target** 4.11

Feature Name Add Layer 2 network type

- **Summary** Required for any kind of service chaining, currently users have to resort to creating networks with IP allocations that they don't want.
- **FS_Jira** TBC
- **Lead Dev** TBC
- **Release Target** Q4 2017

Feature Name New UI Framework

- **Summary** Aim is to work with BitWorks and their existing UI to create a flexible framework upon which a next generation UI
- **FS_Jira** TBC
- **Lead Dev** TBC
- **Release Target** Q4 2017

Feature Name System VM diagnostics API

- **Summary** Enable administrators to perform basic tasks such as ping (over default and specific interfaces) tracert, retrieve logs and configuration files. This will greatly simplify an admin's job by largely removing the need to log into System VMs.
  Also enable admin to increase/decrease logging verbosity on specific system VMs via API.
- **FS_Jira** TBC
- **Lead Dev** TBC
- **Release Target** Q1 2018

Feature Name Ability to request a range of public IPs (v4 and v6)

- **Summary** Required for IPv6 routing in CloudStack, and also for users who prefer to deal with a block of IPs rather than individual IPs as this greatly simplifies ACLs.
- **FS_Jira** TBC
- **Lead Dev** TBC
- **Release Target** Q4 2017

Feature Name CloudStack Metrics Exporter for Prometheus

- **Summary** Several organizations use Prometheus based metrics/monitoring, the aim is to develop a CloudStack metrics exporter for Prometheus server which can export metrics such as CPU, memory, cores, VMs, volumes, IPs.
- **FS_Jira** https://cwiki.apache.org/confluence/display/CLOUDSTACK/CloudStack+Metrics+Exporter+for+Prometheus
- **Lead Dev**
- **Release Target**

Feature Name Embedded Jetty

- **Summary** CloudStack installation has huge dependency on distro provided tomcat, by moving to embedded jetty (like we do use jetty for development) we can sync how developers develop/test mgmt servers and users use it. In addition, it will be easier to publish pkgs without depending on distro provided dependencies.
- **FS_Jira** https://issues.apache.org/jira/browse/CLOUDSTACK-10012
- **Lead Dev** R Yadav
- **Release Target** 4.11

Feature Name Debian 9 SystemVM template

- **Summary** Required update, Debian7 is EOL, moving to Debian9 will give; newer kernel, newer packages, Smaller disk footprint (faster deployment and more space efficient) and Systemd should give quicker boot time
- **FS_Jira** https://issues.apache.org/jira/browse/CLOUDSTACK-10013

- **Lead Dev** R Yadav
- **Release Target** Q4 2017

Feature Name Enable dedication of public IPs to system VMs (CPVM/SSVM)

- **Summary** Allow a public IP range to be dedicated to CPVM/SSVM, allowing external firewall control of ports which are allowed to connect to CPVM/SSVM from "outside" CloudStack.
- **FS_Jira** TBC
- **Lead Dev** N Vasquez
- **Release Target** Q4 2017

Company: Accelerite

Feature Name Affinity Group at Domain Level

- **Summary** Currently the affinity groups are scoped at account level. The enhancement is to scope it at domain level or project level
- **Link to FS and/or JIRA** None
- **Lead Developer:** TBD
- **Release target:** TBD
- **Meeting notes:**

Feature Name Bulk Provisioning of VM from UI

- **Summary** Ability to provision VMs in bulk from UI
- **Link to FS and/or JIRA** None
- **Lead Developer:** Harika
- **Release target:** 4.11

Feature Name Strongswan: Multiple subnets in IKEv1

- **Summary** We lost the ability to specify multiple subnets for S2S VPN using Ikev1 after we moved to Stongswan.Would like to enhance this
- **Link to FS and/or JIRA** Replacing openswan ipsec with strongswan ipsec
- **Lead Developer:** Jayapal
- **Release target:** 4.11

Feature Name Hyper-V Snapshots

- **Summary** Ability to create snapshots in Hyper-V setups.
- **Link to FS and/or JIRA** https://cwiki.apache.org/confluence/display/CLOUDSTACK/VM+Snapshots+in+Hyper-V
- **Lead Developer:** Anshul
- **Release target:** 4.11

Feature Name CPU cores per socket

- **Summary** Ability to update CPU cores per socket for a VM.
- **Link to FS and/or JIRA** None
- **Lead Developer**
- **Release target**

Feature Name Cinder Integration

- **Summary** Integrate with Cinder block storage
- **Link to FS and/or JIRA** None
- **Lead Developer**
- **Release target**

Feature Name OVA Import Robustness

- **Summary** Currently there are many issues with OVA import and usage. Will be enhancing to fix all the issues.
- **Link to FS and/or JIRA** None
- **Lead Developer:** Priyank
- **Release target:** 4.11

Feature Name Hyper-V Clustering

- **Summary** Support Hyper-V Clustering.
- **Link to FS and/or JIRA:** iSCSI and HA support in Hyper-V
- **Lead Developer:** Anshul
- **Release target:** 4.11

Company: Nuage Networks

Feature Name Network migration support

- **Summary** Generic network and VPC migration support to a new Physical
  network (and new network/vpc offering), tested for Native to Nuage networks
  deployments and v.v.
- **Design** https://cwiki.apache.org/confluence/display/CLOUDSTACK/Physical+Networking+Migration
- **JIRA** https://issues.apache.org/jira/browse/CLOUDSTACK-10024
- **PR** https://github.com/apache/cloudstack/pull/2259
- **Lead Developer** Sigert Goeminne
- **Release Target** 4.11.0.0

Feature Name Extra DHCP options support

- **Summary** Extra DHCP options support on per vNIC basis through new
  generic API and framework, implemented for Nuage VSP initially
  only
- **Design** https://cwiki.apache.org/confluence/display/CLOUDSTACK/CloudStack+extra+DHCP+option+support
- **JIRA** https://issues.apache.org/jira/browse/CLOUDSTACK-9776
- **PR** https://github.com/apache/cloudstack/pull/2049
- **Lead Developer** Sigert Goeminne
- **Release Target** 4.11.0.0

Feature Name VPC Inline LB

- **Summary** LoadBalancer implementation, which is in basis a system vm
  like Internal LB, combined with static nat rules.
- **Design** https://cwiki.apache.org/confluence/pages/viewpage.action?pageId=61340894
- **JIRA** https://issues.apache.org/jira/browse/CLOUDSTACK-9282
- **PR** https://github.com/apache/cloudstack/pull/2010
- **Lead Developer** Urvi Shah
- **Release Target** 4.11.0.0

Feature Name Statistics / Caching

- **Summary** Latest Nuage Client code, with support for Caching of VSD
  Ids (External Ids), and keeping API statistics (Call counts).
- **JIRA** https://issues.apache.org/jira/browse/CLOUDSTACK-10053
- **PR** https://github.com/apache/cloudstack/pull/2238
- **Lead Developer** Sigert Goeminne
- **Release Target** 4.11.0.0

Feature Name Config Drive

- **Summary** Adding Config Drive support for isolated networks and VPC,
  by adding a dedicated provider. Generating the ISO by Secondary Storage
  VM.
- **Design** https://cwiki.apache.org/confluence/display/CLOUDSTACK/Using+ConfigDrive...
- *https://cwiki.apache.org/confluence/display/CLOUDSTACK/Using+ConfigDrive+for+Metadata%2C+Userdata+and+Password*
- **JIRA** https://issues.apache.org/jira/browse/CLOUDSTACK-9813
- **PR** https://github.com/apache/cloudstack/pull/2097
- **Lead Developer** Frank Maximus
- **Release Target** 4.11.0.0

Feature Name Nuage VSP 5.0 Support

- **JIRA** TBD
- **PR** TBD
- **Lead Developer** Frank Maximus
- **Release Target** 4.11.0.0

Company: CloudOps

Feature Name Baremetal using MaaS

- **Lead Developer** Syed Ahmed
- **Summary** We want to add baremetal functionality in Cloudstack for advanced
  networks using MaaS which offers a wide varity of options for provisioning
  baremetal servers.
- **Design** https://cwiki.apache.org/confluence/display/CLOUDSTACK/MaaS+Integration+for+Baremetal+Provisioning+in+Cloudstack
- **JIRA** CLOUDSTACK-9913
- **PR** TBD
- **Release Target** 4.11.0

Feature Name NoVNC Console

- **Lead Developer** Sachin Patil via GSOC
- **Summary** To create a better VNC client for Cloudstack using noVNC
- **Design**https://cwiki.apache.org/confluence/display/CLOUDSTACK/noVNC+support+for+Cloudstack
- **JIRA** CLOUDSTACK-10025

- **PR** https://github.com/apache/cloudstack/pull/2204
- **Release Target** 4.11.0

Company: ENA

Feature Name Ceph/RBD Support for new KVM HA Framework

- **Lead Developer** David Marby
- **Summary** Extend KVM HA Framework to support Ceph/RBD backend
- **Design**
- **JIRA**
- **PR**
- **Release Target**

Feature Name Ability to Specify Mac Address when plugging a network

- **Lead Developer** Nathan Johnson
- **Summary** The ability to specify a mac address when shifting a VM workload from another environment makes the transition a lot easier.
- **Design**
- **JIRA** CLOUDSTACK-9949
- **PR** https://github.com/apache/cloudstack/pull/2143
- **Release Target** 4.11.0

Community Effort

Company: ShapeBlue

Subject CloudStack fat jar packaging

- **Short Summary** CloudStack installation has huge dependency on distro provided tomcat, by moving to embedded jetty (like we do use jetty for development) we can sync how developers develop/test mgmt servers and users use it. In addition, it will be easier to publish pkgs without depending on distro provided dependencies.
- **Lead(s)** R Yadav/MA Brothier
- **Target Date**

Subject Debian9 systemvmtemplate

- **Short Summary** Required update, Debian7 is EOL, moving to Debian9 will give; newer kernel, newer packages, Smaller disk footprint (faster deployment and more space efficient) and Systemd should give quicker boot time
- **Lead(s)** R Yadav/W Hollander
- **Target Date**

Subject 4.9.3.0

- **Short Summary** Backport of bug fixes to 4.9 branch and release 4.9.3.0.
- **Lead(s)** R Yadav
- **Target Date**

Subject Winston

- **Short Summary** WIP - PoC of Phase 1 (consolidated data storage) in ShapeBlue Lab - Elasticsearch instance receiving test run data from Trillian & Blue Orangutan. Once it has a decent amount I'll come to community for ideas and feedback (and help). By the time of the conf call I will have updated: Project Winston
- **Lead(s)** P Angus
- **Target Date**
- **Meeting Notes:**

Subject Marvin Test Categories

- **Short Summary** Enable quicker, targeted test runs in Marvin, by allowing user to specify Which element(s) are touched ie. Networking
- **Lead(s)** B Stoyanov
- **Target Date**

Company: Accelerite

Subject Release Management

- **Short summary** Accelerite has been doing Release management for many releases for Cloudstack. Most recently 4.10. We will continue these efforts
- **Lead(s)** Rajani
- **Target date**

- **Meeting Notes:**

Subject PR Process

- **Short summary** Current PR process takes quite a long for a PR to get merged. Couple of examples (1) there are comments on the PR that were addressed by the author but no one may respond (2) there are comments from reviewers and the author does not respond. The whole process can take potentially a longtime if either the author or the reviewers take time to respond. Can we think about implementing some kind of validating on the Prs.. Bottomline is how can we improve ?
- **Lead(s)** TBD
- **Target date**
- **Meeting Notes:**

Subject Regression Tests

- **Short Summary** There are a number of tests in the integration folder which are not run. Need to group these together and start running them.
- **Lead(s)** Raja/Looking for support
- **Target Date** TBD
- **Meeting Notes:**

Subject Release Qualification

- **Short Summary** RC to Readiness takes quite a bit of time. Can we discuss on ways to improve this.
- **Lead(s)** Raja/Looking for support
- **Target Date** TBD
- **Meeting Notes:**

Subject Performance Testing

- **Short Summary** Add Performance tests. Need hardware where we can run these tests on?
- **Lead(s)** Raja/Looking for support
- **Target Date** TBD
- **Meeting Notes:**

Blockers

-- TBD

Attendees

- ilya musayev

Goals

Discussion items

Time	Item	Who	Notes

Action items

- ☐