Extracts of the CTO plan containing the information requested under points 1 and 2 of your request for access to documents ATD/36/2019

Page 39

Desktop
Windows 10 and Office 2013.

Page 42

Operating systems
The two main server operating systems (OSs) are Windows and Red Hat.

Page 42

Containers
As part of ECHACS ECHA is using Docker CE containers based on CentOS.

Page 48

Email
Current e-mail solution is based on Exchange 2013.

Page 48

Internal collaboration
ECHA's current internal collaboration and intranet are based on SharePoint.

Page 49

Technology solutions in use

Apache Camel

Apache Camel is an integration framework used in ECHA Interact.

Apache Kafka

Apache Kafka is a distributed streaming system. It is used in the ECHACS to relay event messages between subscribers.

Apache ZooKeeper

Apache ZooKeeper is a centralized service for maintaining configuration information, naming, providing distributed synchronization, and providing group services. It is used by Apache Kafka in ECHACS to store configuration.

Atlassian BitBucket

As part of the ECHACS Atlassian BitBucket is used as a git server hosted in the cloud.

Page 49

Atlassian Confluence

Confluence is a wiki tool that was inherited from the first REACH-IT project.

Page 49

Atlassian Jira

Jira is an issue tracking tool that was inherited from the first REACH-IT project.

Page 50

Azure DevOps

ECHA is using Azure DevOps in Microsoft related products and projects. It is a full suite of products to cover all development aspects: planning, CI/CD, code repositories, test plans and artefact repository. Azure DevOps is the cloud offering and ECHA was using previously the Team Foundation Server (TFS) on-premise (now called Azure DevOps Server). Azure DevOps was also known as Visual Studio Team Services previously.

BMC Remedy Platform

The BMC Remedy Platform provides a platform for Remedy Action Request System applications that is ECHA's current IT service management (ITSM) tool.

Pages 50-51

Chef

Chef is a configuration management tool that is used in ECHA to configure Linux operating systems, build environments for custom applications as well as installing widespread solutions like Splunk.

Cisco WebEx

Cisco WebEx is used to host webinars up to hundreds of participants. There is also a secure WebEx solution in use for committee meetings.

ClamAV

ClamAV is a virus scanning solution deployed as part of ECHACS. The scanning is called from the OpenResty server by a filter called clammit. The virus definitions are periodically updated through Nexus with a process called freshclam.

ClickDimensions

ClickDimensions is used as a mass mailing solution for non-confidential communication. It runs on top of Microsoft CRM.

Cloudia

Cloudia is a cloud based e-procurement tool.

Page 51

eDelivery

eDelivery is a secure document exchange platform developed under the ISA^2 programme.

Page 51

Elasticsearch

Elasticsearch is an indexing and searching tool used in some Java applications.

Page 51

EMC Avamar

EMC Avamar is the backup solution introduced when migration to EPC took place.

Page 52

FortiSIEM

FortiSIEM is a security information and event management (SIEM) tool that collects and analyses logs from various network equipment like firewalls, etc.

Page 52

Google analytics

Google analytics was implemented in a few projects.

Page 52

Jenkins

Jenkins is a continuous integration (CI) tool for Java applications used to build and deploy applications in ECHA.

Master Data Services

Master Data Services (MDS) is the Microsoft SQL Server solution for master data management.

Page 52

Microsoft Active Directory

ECHA's LDAP solution is based on Microsoft Active Directory.

Page 52

Microsoft Dynamics CRM

Microsoft Dynamics CRM is a customer relation management tool.

Page 53

Microsoft Identity Manager

Microsoft Identity Manager (MIM) is the re-branded FIM product.

Page 53

Microsoft Office 365

ECHA has a license for Microsoft Office 365 and is currently leveraging Skype for Business and SharePoint Online solutions from the portfolio.

Page 53

Microsoft System Center Configuration Manager

Microsoft System Center Configuration Manager (SCCM) is used to patch all Windows clients and servers in ECHA.

Nexthink

Nexthink is an end-user analytics platform.

Page 53

Nexus

Nexus is a repository management tool that is used as part of the Java application build process.

OpenResty

OpenResty is used in the ECHACS as a dynamic reverse proxy. It uses Redis as a proxy configuration store.

Oracle Data Integrator

Oracle Data Integrator is a data integration platform.

Pages 53-54

Oracle Enterprise Manager

Oracle Enterprise Manager (OEM) 12c has been implemented to centrally manage all Oracle database instances.

Oracle PeopleSoft

PeopleSoft is a software suite provided by Oracle that has various applications to cover

human resource management processes. PeopleSoft is used as a platform for HRMS, but all instances are managed by the external development, hosting and application management contractor.

Oracle Text

Oracle Text is a text indexing and searching feature in the Oracle database.

Page 54

Orbeon Forms

Orbeon Forms is a Liferay plug-in.

Page 54

Quality Center

Previously called HP Quality Center and now provided by Micro Focus is a quality management tool.

Page 54

Red Hat Satellite

Red Hat Satellite is used in ECHA for managing Red Hat instances. It is used for patching the servers and tracking licenses.

Page 55

Redis

Redis is an open source, in-memory data structure store. It is used by OpenResty as a proxy configuration store and as a persistent store for Apache Kafka both in the ECHACS.

RSA

ECHA is using RSA virtual appliances.

Page 55

S-CIRCABC

S-CIRCABC is a dedicated collaboration solution offered by the European Commission.

Page 55

SAP Business Objects BI Suite

SAP Business Objects (BO) has been used as a business intelligence tool since the beginning of ECHA.

SCM manager

SCM manager is a tool used to create and manage git repositories in ECHA.

Page 55

Skype for Business

Skype for Business was formerly known as Lync and it is a video conferencing and online meeting tool that can also provide instant messaging.

Page 55

Solr

Solr is a searching and indexing tool.

Page 55

Splunk

Splunk is a business intelligence tool that can extract business data from log files produced by servers, appliances, middleware platforms, applications etc.

Page 56

Symantec Scan Engine

Symantec Scan Engine is a virus scanning solution.

Page 56

Thorntail

Thorntail, previously called Wildfly Swarm, is used as part of the ECHACS as an application server. It minimises the server runtime to only have the necessary libraries running.

Unified Functional Testing

Previously known as HP Quick Test Pro (QTP) Micro Focus Unified Functional Testing (UFT) is a test automation tool that is used in conjunction with Quality Center.

Page 56

Vmware Tools

VMware Tools is a set of services and modules that enable several features in VMware products for better management of, and seamless user interactions with, guest operating systems. VMware tools is installed and kept up-to-date on each VM.