PURE STORAGE CUSTOMER SUCCESS

PURE STORAGE CLOUD BLOCK STORE

Basic and Advanced Implementation Service Brief

SERVICES OVERVIEW

Pure Storage® Cloud Block Store for Amazon Web Services (AWS) is industrial-strength block storage delivered natively in the cloud. Powered by Purity software, Cloud Block Store enables mission-critical applications to run in the cloud seamlessly – while also making cloud storage more powerful for webscale applications. A true hybrid operation can be achieved with consistent data services, resiliency, APIs, bi-directional mobility, seamless management, and orchestration.

Pure Professional Services accelerates the deployment of Cloud Block Store by harnessing and applying the best practice experiences of our early CBS adopters. As a result, you can choose from the following two offerings:

- **CBS Basic Installation Service** – SKU: PS-CloudBS-Basic-Implementation
- **CBS Advanced Design and Installation Services** – SKU: PS-CloudBS-Advanced Implementation

PURE CLOUD BLOCK STORE IMPLEMENTATION SERVICE TYPES

DISCOVERY & DATA GATHERING	BASIC	ADVANCED
ASSISTANCE WITH COMPLETING THE CLOUD BLOCK STORE (CBS) PRE-INSTALLATION QUESTIONNAIRE	X	X
DISCUSSION OF WORKLOAD AND BANDWIDTH REQUIREMENTS BETWEEN ON-PREM AND AWS ENVIRONMENTS	X	X

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GET STARTED TODAY

Learn how your IT environment can help achieve the outcomes that matter most to you. Contact your local Pure Storage sales representative or visit www.purestorage.com

DISCOVERY & DATA GATHERING (CONTINUED)	BASIC	ADVANCED
IN-DEPTH ORIENTATION OF PURE CLOUD BLOCK STORE (CBS) TO INCLUDE THE FOLLOWING:	X	X
PURE STORAGE CBS NOMENCLATURE	X	X
PURE STORAGE CBS DEPLOYMENT GUIDE/CHECKLIST	X	X
FEATURE SETS	X	X
CONFIGURATION AND OPERATIONAL BEST PRACTICES	X	X
VOLUME CREATION WITHIN CBS	X	X
SECURITY SETTINGS (EXPORT RULES, SSH, ROLLED BASED ADMIN, SECURITY GROUPS, NETWORK ACLS	X	X
DATA MIGRATION (GETTING EXISTING DATA TO CBS)	X	X
HIGH-AVAILABILITY CONCEPTS (I.E., ACTIVECLUSTER™) IF APPLICABLE	X	X
CUSTOMER'S BASIC WORKFLOW AND DATA I/O PROCESSES	X	X
BANDWIDTH REQUIREMENTS BETWEEN ON-PREM AND AWS ENVIRONMENTS	X	X

DESIGN	BASIC	ADVANCED
REVIEW AND VALIDATION OF THE FOLLOWING:	X	X
PURE STORAGE CLOUD BLOCK STORE DEPLOYMENT REQUIREMENTS AND CHECKLIST	X	X
AWS CLOUD ENVIRONMENT READINESS	X	X
SCHEDULING CBS IMPLEMENTATION AND DEPLOYMENT	X	X

IMPLEMENTATION & DEPLOYMENT	BASIC	ADVANCED
VALIDATE NETWORK CONNECTIVITY BETWEEN THE AWS VIRTUAL PRIVATE CLOUD (VPC) AND ON-PREM ENVIRONMENTS	X	X
CONFIGURE AWS CLOUD ENVIRONMENT AS DESCRIBED IN THE PURE STORAGE CLOUD BLOCK STORE DEPLOYMENT GUIDE	X	X
DEPLOY AND CONFIGURE CBS USING SERVICE CATALOG OR OTHER APPROVED/ AGREED UPON METHOD	X	X

IMPLEMENTATION & DEPLOYMENT (CONTINUED)	BASIC	ADVANCED
CONFIGURE AND VALIDATE ACTIVE DIRECTORY CONNECTIVITY IF APPLICABLE		x
CONFIGURE PROTOCOLS FOR ACCESS TO PURE CBS FROM AWS AMIS OR EC2 INSTANCES (CREATE ONE (1) ISCSI LUN AND NFS MOUNT POINT FOR POC)		x
CONFIGURE EMAIL ALERTS OR SIMPLE NETWORK MANAGEMENT PROTOCOL (SNMP)		x
CONFIGURE ASYNC REPLICATION FROM AN ON-PREM ARRAY TO THE PURE STORAGE CBS INSTANCE		x
CONFIGURE AND ENABLE REPLICATION SCHEDULES FOR PERIODIC DATA TRANSFER FROM ON-PREM TO PURE STORAGE CBS		x
SCHEDULING CBS IMPLEMENTATION AND DEPLOYMENT	x	x
CREATION OF A TEMPLATE AMI IMAGE FOR A SINGLE OS UTILIZING THE APPROPRIATE CBS-SPECIFIC PARAMETERS	x	x

POST IMPLEMENTATION & DEPLOYMENT	BASIC	ADVANCED
VERIFYING DATA REPLICATION SCHEDULES		x
DEMONSTRATING DATA REPLICATION FROM ON-PREM TO PURE CBS INSTANCE IN AWS		x
PERFORMING A TEST BACKUP AND RECOVERY		x
SCHEDULING CBS IMPLEMENTATION AND DEPLOYMENT	x	x

CUSTOMER RESPONSIBILITIES

- **VPC Requirements** – An existing VPC or newly created VPC containing virtual machines that can access the Pure Storage Cloud Block Store instance
- **Private Subnet** – Cloud Block Store should be deployed in a private subnet for security reasons. Additionally, the private subnet should have a routing table allowing internet access via a NAT Gateway.
- **User Permissions** – Users who are deploying Cloud Block Store instances need to have two types of permissions:
  - AdministratorAccess
  - AWSServiceCatalogAdminFullAccess
- **DC to VPC Connectivity** – For async replication testing between Pure Storage Cloud Block Store instances and physical FlashArrays, it is required that both the

management and replication IP addresses are accessible (routable) between the Pure Storage Cloud Block Store instances and the physical FlashArray™ in the data center. NAT is supported for replication addresses.

- **IP Addresses** – The following IP addresses will be required for each instance of Pure Storage Cloud Block Store. The management and replication IPs must be accessible from physical arrays if testing async replication between the virtual and physical arrays as mentioned above. NAT is supported for replication addresses
  - Management IP
  - iSCSI IP
  - Replication IP
- Please see the Pure Cloud Block Store Implementation Guide for additional requirements
- Perform a full working backup prior to the start of the services. Pure Storage is not responsible for lost data.
- Must provide a resource dedicated to this project and the extent of the knowledge transfer is dependent upon the availability of this resource. Please note that the time designated for knowledge transfer is throughout the project.
- Must provide Pure Storage in writing with any restrictions or requirements regarding the Pure Storage technician's use of personal equipment in advance of the beginning of the project.
- Must make the necessary administrative usernames and passwords available to the Pure Storage technician.
- Must provide Pure Storage with detailed and accurate information regarding the current network environment. This information may include the technical configuration of the domain environment.

Changes

- Any changes or additions to the Pure CBS Basic and Advanced Installation Services or deliverables set forth in this service brief require, prior to the initiation of work effort being performed, a mutually executed Pure Statement of Work (SOW) describing the cost and schedule impact.

Out of Scope Work – Customer

- Anything not listed and detailed in the steps above is out of scope for Pure Storage.

CONTACT A PURE STORAGE IMPLEMENTATION SPECIALIST

If you have any questions on the services being performed at any time during this engagement, please contact Pure Storage Implementation team at psinstalls@purestorage.com.