

As you all aware, there three types of azure blob storage offerings from Microsoft.

- Block Blobs
- Append Blobs
- Page Blobs

Block Blobs

Block blobs are used to hold text or binary files up to ~5 TB (50,000 blocks of 100 MB) in size. The primary use case for block blobs is the storage of files that are read from beginning to end, such as media files or image files for websites. They are named block blobs because files larger than 100 MB must be uploaded as small blocks, which are then consolidated (or committed) into the final blob.

Page Blobs

Page blobs are used to hold random-access files up to 8 TB in size. Page blobs are used primarily as the backing storage for the VHDs used to provide durable disks for Azure Virtual Machines (Azure VMs). They are named page blobs because they provide random read/write access to 512-byte pages.

Append Blobs

Append blobs are made up of blocks like block blobs, but they are optimized for append operations. These are frequently used for logging information from one or more sources into the same blob. For example, you might write all of your trace logging to the same append blob for an application running on multiple VMs. A single append blob can be up to 195 GB

Step by steps:

(1) Creates a new BlobService object using createBlobService

`createBlobService(storageAccountOrConnectionString [, storageAccessKey] [, host])`

Ex:

```
var blobSvc = azure.createBlobService("DefaultEndpointsProtocol=https;AccountName=youraccountname;  
AccountKey=youraccountkey;EndpointSuffix=core.windows.net");
```

(2) Checks whether or not a blob exists on the service

`doesBlobExist(container, blob [, options], callback)`

Ex:

```
blobService.doesBlobExist('azureblob', '123/human/a.json', function(error, result) {  
  if (!error) {  
    if (result.exists) {  
      console.log('Blob exists...');  
    } else {  
      console.log('Blob does not exist...');  
    }  
  }  
});
```

(3) If exists, use appendFromText to append to the existing blob

Appends to an append blob from a text string. Assumes the blob already exists on the service.

appendFromText(container, blob, text [, options], callback)

Ex:

```
blobSvc.appendFromText(  
  config.BLOB.containerName,  
  blobName,  
  data,  
  properties,  
  function (error, result, response) {  
    if (error) {  
      context.log.error("BLOB Creation Error - " + error);  
      reject(err);  
    } else {  
      context.log.info("BLOB created successfully - " + blobName);  
      resolve("SUCCESS");  
    }  
  });
```

(4) Otherwise, create a new append blob using createAppendBlobFromText

Creates an append blob from a text string. If the blob already exists on the service, it will be overwritten unless you handle it other way using doesBlobExist to append the text.

Ex:

```
blobSvc.createAppendBlobFromText(  
  config.BLOB.containerName,  
  blobName,  
  data,  
  properties,  
  function (error, result, response) {  
    if (error) {  
      context.log.error("BLOB Creation Error - " + error);  
      reject(err);  
    } else {  
      context.log.info("BLOB created successfully - " + blobName);  
      resolve("SUCCESS");  
    }  
  });  
}  
}  
});
```