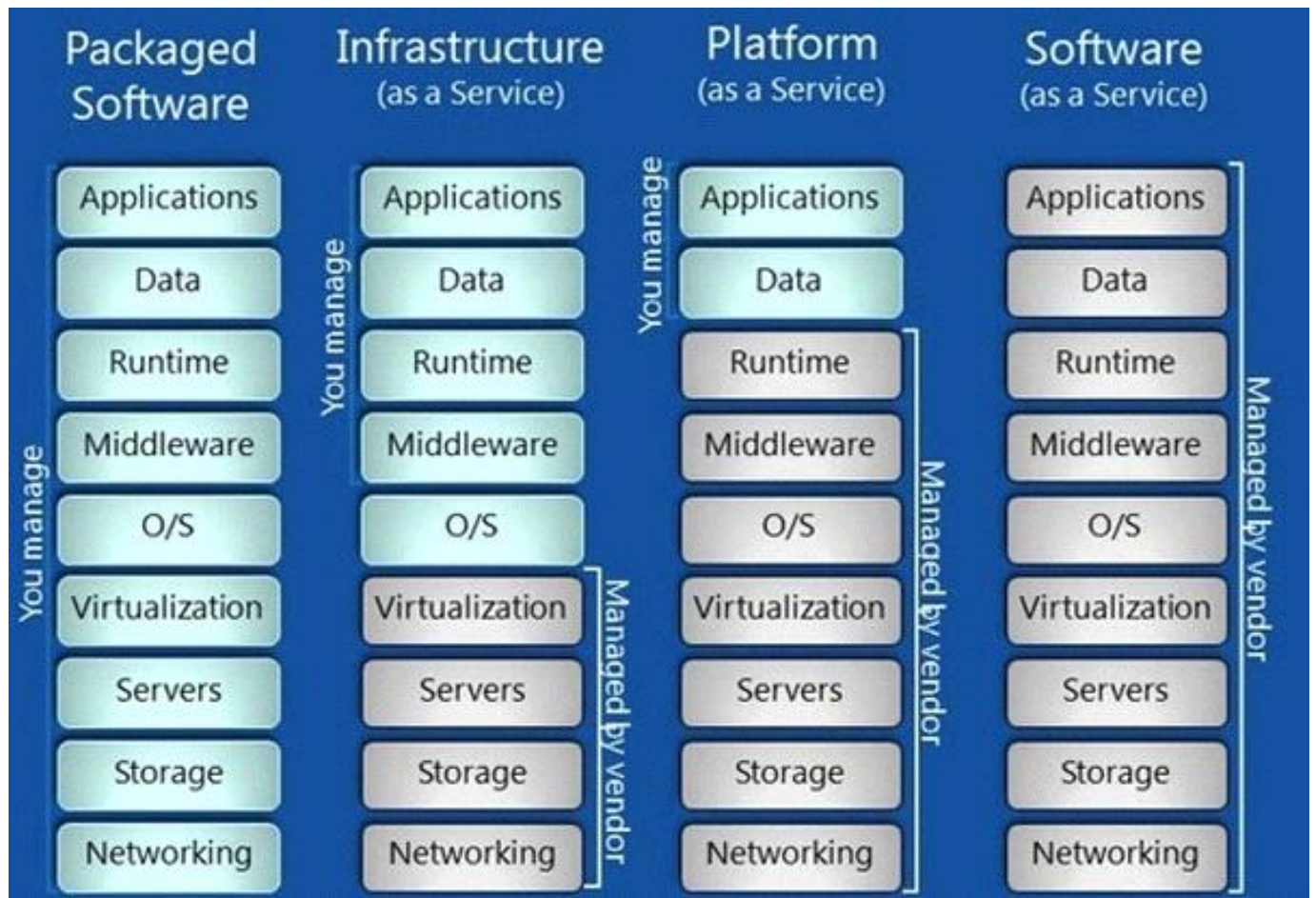
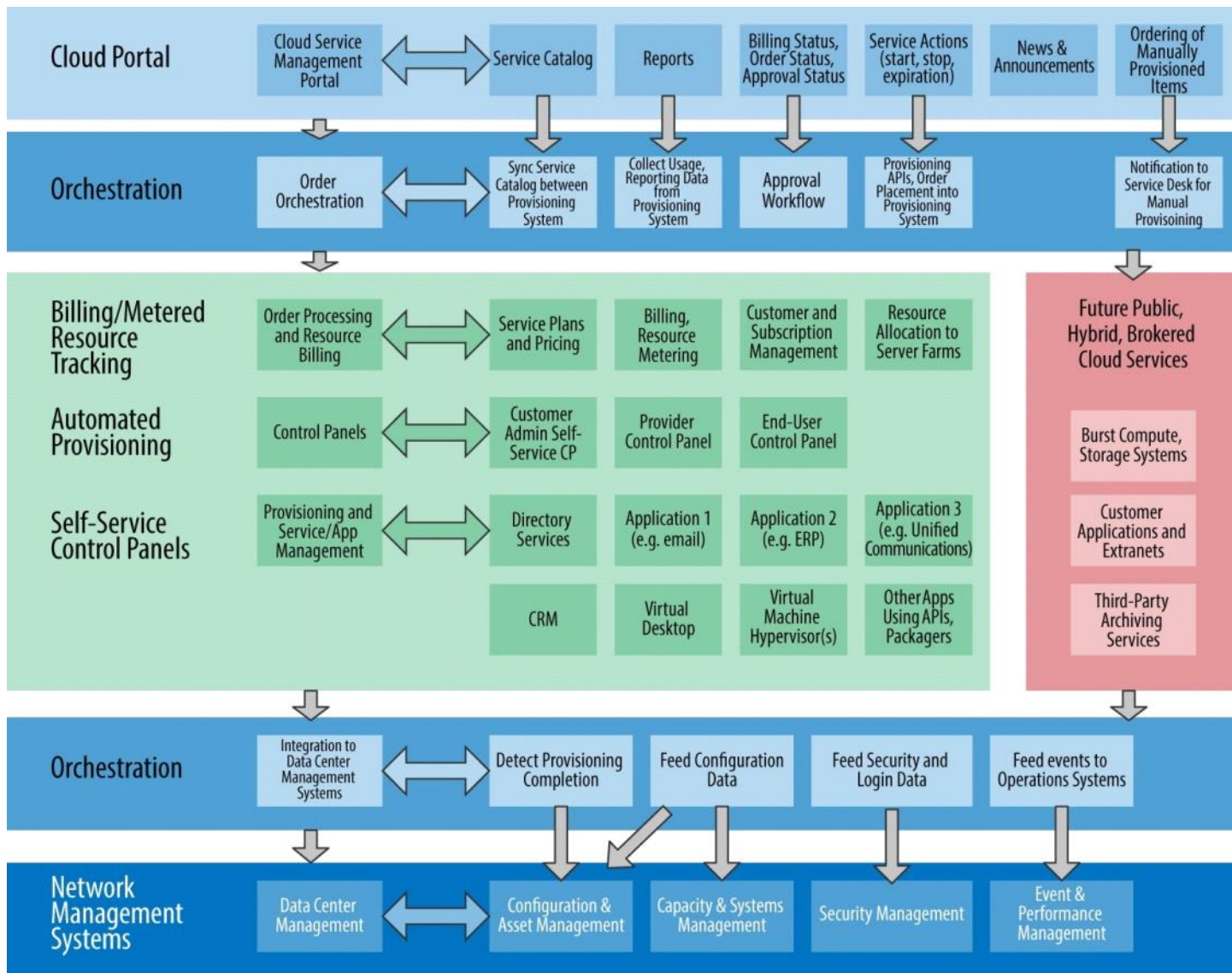


Overview



Cloud Mgmt. Platform Arch.

Cloud Portal and Self-Service Portal	<ul style="list-style-type: none">- Roles-based self-service portal- Service catalog, shopping cart, approval workflow- Subscription management, service change/start/stop- Status, utilization, billing, reporting, dashboards
Automated Provisioning, Orchestration and Service Design	<ul style="list-style-type: none">- Automated service provisioning, resource allocation- Resource metering and billing/chargeback- Orchestration and workflow, service designs- Service brokering, aggregation, arbitration
Network Operations & Management Suite	<ul style="list-style-type: none">- Configuration, asset, and capacity management- Network and security continuous monitoring- Service provider performance and status monitoring



laas

Infrastructure as a service (IaaS)

- COMPUTE - STORAGE - NETWORKING - DATABASE - DNS
- Raw computing power & Hardware
 - CPU, H/W, memory etc.,
- Run/Manage your own OS. Running your own "mini data center"
- You will have maximum degree of control
- Charged on Usage basis per CPU time, Storage space, network bandwidth (pay per use/pay-as-you-go model); No capital cost
- e.g EC2, Google Compute Engine

PaaS

Platform as a service

- Provides software platform on which users can build, test and deploy their own application
- e.g AWS Elastic beanstalk, Google App Engine
- Best when new applications are developed than migrating the existing ones.

SaaS

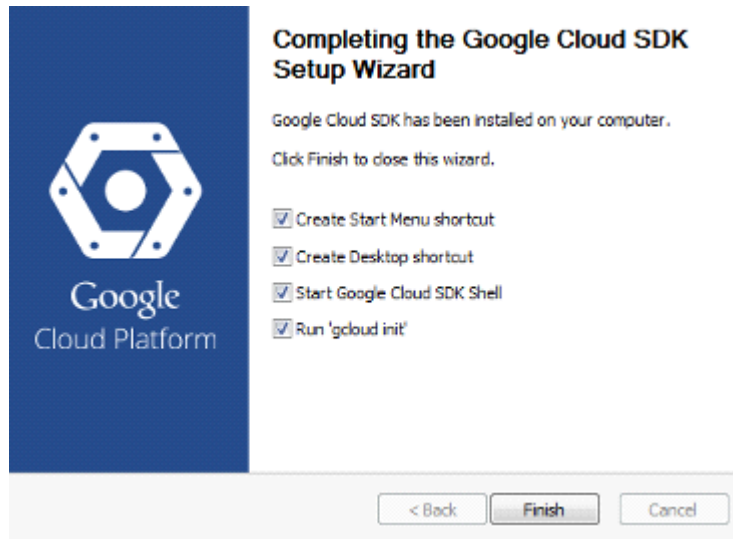
Software as a Service

- Hosted service
- Can be accessed by browser or any thin client
- e.g. Gmail, Salesforce, QuickBooks, or any other CRM applications..
- Saves software installations, upgrades, maintenance etc., they are all done by service provider
- Multi-tenant - per user pricing
- Cost advantages
- Limited Control

Google Cloud SDK Shell Installation

Before you begin

1. Download the [Google Cloud SDK installer](#).
2. Launch the installer and follow the prompts.
3. After installation has completed, the installer presents several options:



Make sure that the following are selected:

- **Start Google Cloud SDK Shell**
- **Run 'gcloud init'**

The installer then starts a terminal window and runs the `gcloud init` command.

Initialize the SDK

Use the `gcloud init` command to perform several common SDK setup tasks. These include authorizing the SDK tools to access Google Cloud Platform using your user account credentials and setting up the default SDK configuration.

To initialize the SDK:

1. Run the following at a command prompt:

```
gcloud init
```

2. Accept the option to log in using your Google user account:

```
To continue, you must log in. Would you like to log in (Y/n)? Y
```

3. In your browser, log in to your Google user account when prompted and click **Allow** to grant permission to access Google Cloud Platform resources.
4. At the command prompt, select a Cloud Platform project from the list of those where you

have **Owner**, **Editor** or **Viewer** permissions:

Pick cloud project to use:

[1] [my-project-1]

[2] [my-project-2]

...

Please enter your numeric choice:

If you only have one project, `gcloud init` selects it for you.

5. If you have the Google Compute Engine API enabled, `gcloud init` allows you to choose a default Compute Engine zone:

Which compute zone would you like to use as project default?

[1] [asia-east1-a]

[2] [asia-east1-b]

...

[14] Do not use default zone

Please enter your numeric choice:

`gcloud init` confirms that you have complete the setup steps successfully:

`gcloud` has now been configured!

You can use `[gcloud config]` to change more `gcloud` settings.

Your active configuration is: [default]