[Pearson VUE - Dashboard](https://wsr.pearsonvue.com/testtaker/registration/Dashboard/MICROSOFT)

The capstone project:

[Introduction to Course 5](https://www.youtube.com/watch?v=JojUJ7PyxF0&t=3s)

[**Christine: A day in the life of a cloud architect**](https://www.youtube.com/watch?v=_pA8fC_ekhA)

[**The cloud data analytics hiring process**](https://www.youtube.com/watch?v=_xGWL6Nv_L8)

**02**

**Preparing for Your Associate Cloud Engineer Journey**

[**Module Overview**](https://www.youtube.com/watch?v=vM0TPHj20lo&t=58s)

[**Introduction to the Associate Cloud Engineer role**](https://www.youtube.com/watch?v=ooWm-UbrjE0)

**[Certification value and benefits](https://www.youtube.com/watch?v=J8TMotckDMY&t=3s)**

# [**Certification process**](https://www.youtube.com/watch?v=-PoY3ieZH4s&t=3s)

[ACE\_Workbook\_v2.0 (storage.googleapis.com)](https://storage.googleapis.com/cloud-training/gcpace/2.0/en/student/ACE_Workbook_v2.0.pdf)

[ACE\_Workbook\_v2.0.pptx (live.com)](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fstorage.googleapis.com%2Fcloud-training%2Fgcpace%2F2.0%2Fen%2Fstudent%2FACE_Workbook_v2.0.pptx&wdOrigin=BROWSELINK)

# [Setting up Cymbal Superstore's cloud environment](https://www.youtube.com/watch?v=DQLlSv2N1co&t=3s)

# [Selecting resources for Cymbal Superstore’s cloud solutions](https://www.youtube.com/watch?v=3wlxjZZPPLc)

# [Deploying and implementing Cymbal Superstore’s cloud recommended solutions](https://www.youtube.com/watch?v=oASXKSCm21k)

# [Managing Cymbal Superstore’s cloud solutions](https://www.youtube.com/watch?v=oQA-0SvuHWA&t=1s)

# [Managing access for Cymbal Superstore’s cloud solutions](https://www.youtube.com/watch?v=xh7Q3q3S-lI)

## 03

# Google Cloud Fundamentals: Core Infrastructure

[Cloud computing](https://www.youtube.com/watch?v=ph5hjgOAf40)

# [Course Introduction](https://www.youtube.com/watch?v=xVmam01f4Fw)

[security](https://www.youtube.com/watch?v=BggWZl8qTzk&t=3s)

# [Open source ecosystems](https://www.youtube.com/watch?v=gYZGSrNffF8&t=1s)

# [Pricing and billing](https://www.youtube.com/watch?v=PRRf8y-Y5Bo&t=1s)

# [Google Cloud 资源层次结构](https://www.youtube.com/watch?v=zdxQZh2iOFE)

# [Identity and Access Management (IAM)](https://www.youtube.com/watch?v=Di1T4RyO9yg&t=1s)

# [服务帐号](https://www.youtube.com/watch?v=1MTQnROOWS0)

# [Cloud Identity](https://www.youtube.com/watch?v=EZccX9nFaiI&t=1s)

# [Interacting with Google Cloud](https://www.youtube.com/watch?v=KJS0FnXF7Kg&t=1s)

# [Lab: Getting Started with Cloud Marketplace](https://www.cloudskillsboost.google/paths/11/course_templates/60/labs/485462)

# [Virtual Private Cloud networking](https://www.youtube.com/watch?v=SFRCZvJN650)

# [Compute Engine](https://www.youtube.com/watch?v=Oxwz5HbYUF8)

# [扩缩虚拟机](https://www.youtube.com/watch?v=YQK8u563me4&t=1s)

# [Important VPC compatibilities](https://www.youtube.com/watch?v=UtNlJbm8s2Q)

# [Cloud Load Balancing](https://www.youtube.com/watch?v=spR4vOQUvZo&t=1s)

# [Cloud DNS and Cloud CDN](https://www.youtube.com/watch?v=Jc71ZC9Euj0)

# [Connecting networks to Google VPC](https://www.youtube.com/watch?v=uTYwgmOEbWA)

# [Lab: VPC Networking and Google Compute Engine](https://www.cloudskillsboost.google/paths/11/course_templates/60/labs/485471)

# [Google Cloud storage options](https://www.youtube.com/watch?v=8Dn-RAP7fzA)

# [Cloud Storage](https://www.youtube.com/watch?v=pLMkOa4FbwI)

# [Cloud Storage: Storage classes and data transfer](https://www.youtube.com/watch?v=A5a8sPL6PjY)

# [Cloud SQL](https://www.youtube.com/watch?v=mtIATfMV6PI)

# [Spanner](https://www.youtube.com/watch?v=fUrnmk4f77U)

# [Firestore](https://www.youtube.com/watch?v=Q1kSFl1LYMc)

# [Bigtable](https://www.youtube.com/watch?v=bfztO0_4fhw&t=1s)

# [Comparing storage options](https://www.youtube.com/watch?v=jAPJ_aVxCbQ&t=1s)

# [Lab: Getting Started with Cloud Storage and Cloud SQL](https://www.cloudskillsboost.google/paths/11/course_templates/60/labs/485481)

# [Introduction to containers](https://www.youtube.com/watch?v=G7lpck7t9Vw)

# [Kubernetes](https://www.youtube.com/watch?v=4NTyB0eEB_A)

# [Google Kubernetes Engine](https://www.youtube.com/watch?v=_-TPCaJYwR0)

[Cloud Run](https://www.youtube.com/watch?v=R3Ec_4tC3oc&t=6s)

# [Development in the cloud](https://www.youtube.com/watch?v=8mskda7KNM8)

[Lab: hellos cloud run](https://www.cloudskillsboost.google/paths/11/course_templates/60/labs/485489)

# [Prompt Engineering](https://www.youtube.com/watch?v=5zoKVf-cnf4)

# [Course summary](https://www.youtube.com/watch?v=W0OlUwMa9RI)

## 04

# Essential Google Cloud Infrastructure: Foundation

# [Course Introduction](https://www.youtube.com/watch?v=G1Onqg8Oybs&t=2s)

# [Module Overview](https://www.youtube.com/watch?v=iL_Iel-Vryc&t=1s)

# [Using Google Cloud](v)

# [Lab: Working with the Google Cloud Console and Cloud Shell](https://www.cloudskillsboost.google/paths/11/course_templates/50/labs/485500)

# [Lab Review: Working with the Google Cloud Console and Cloud Shell](https://www.youtube.com/watch?v=o0rm0MXcQzo)

# [Lab: Infrastructure Preview](https://www.cloudskillsboost.google/paths/11/course_templates/50/labs/485503)

# [Lab Review: Infrastructure Preview](https://www.youtube.com/watch?v=HVc4x5twvag)

# [Demo: Projects](https://www.youtube.com/watch?v=0Dz0HUw7hcQ&t=1s)

# [Module Review](https://www.youtube.com/watch?v=h5pJ4L38tj4&t=1s)

# [Module Overview](https://www.youtube.com/watch?v=8sCchuVVPUA)

# [Virtual Private Cloud](https://www.youtube.com/watch?v=KTDHvLFvwrw)

# [Projects, networks, and subnetworks](https://www.youtube.com/watch?v=EbaXu92LYvU)

# [Demo: Expand a Subnet](https://www.youtube.com/watch?v=-PmauCDjzyA)

# [IP addresses](https://www.youtube.com/watch?v=H1wYg3GPvIo&t=4s)

# [Demo: Internal and external IP](https://www.youtube.com/watch?v=UwLrs2VkfQA)

# [Mapping IP addresses](https://www.youtube.com/watch?v=msHZKpYBnDQ)

# [Routes and firewall rules](https://www.youtube.com/watch?v=3TYssEfEFlw&t=3s)

# [Pricing](https://www.youtube.com/watch?v=uYMxIjUPqbo)

# [Lab Intro: VPC Networking](https://www.youtube.com/watch?v=EtZBPjb-cD4)

# [Lab: VPC Networking](https://www.cloudskillsboost.google/paths/11/course_templates/50/labs/485519)

# [Lab Review: VPC Networking](https://www.youtube.com/watch?v=UjlYPCDJM30)

# [Common network designs](https://www.youtube.com/watch?v=28tXeWMXEgg&t=1s)

# [Lab Intro: Implement Private Google Access and Cloud NAT](https://www.youtube.com/watch?v=9OgvlhCLCvY)

# [Lab: Implement Private Google Access and Cloud NAT](https://www.cloudskillsboost.google/paths/11/course_templates/50/labs/485523)

# [Lab Review: Implement Private Google Access and Cloud NAT](https://www.youtube.com/watch?v=RLRZ5OEO26Q)

# [Module Review](https://www.youtube.com/watch?v=1lqmGhTghtI&t=1s)

# [VM Module Overview](https://www.youtube.com/watch?v=EEj4pUZ8xC0)

# [Compute Engine](https://www.youtube.com/watch?v=ITH1idwhYBQ)

[Demo: Create a VM](https://www.youtube.com/watch?v=LjozZwHn4Fo&t=1s)

# [Compute options](https://www.youtube.com/watch?v=LjozZwHn4Fo&t=1s)

[VM access and lifecycle](https://www.youtube.com/watch?v=gPaQTu-rMnU&t=1s)

# [Lab: Creating Virtual Machines](https://www.cloudskillsboost.google/paths/11/course_templates/50/labs/485532)

# [Lab Review: Creating Virtual Machines](https://www.youtube.com/watch?v=gTZ_zCrUWkc&t=1s)

# [Compute pricing](https://www.youtube.com/watch?v=uNy8wfme34E)

# [Special compute configurations](https://www.youtube.com/watch?v=-bboz9sc0WA&t=1s)

# [Images](https://www.youtube.com/watch?v=nTFpJLHfXJo)

# [Disk options](https://www.youtube.com/watch?v=q-FIYArz1qo)

# [Common Compute Engine actions](https://www.youtube.com/watch?v=1iwt9lzrl4E&t=1s)

# [Lab Intro: Working with Virtual Machines](https://www.youtube.com/watch?v=xfZee9KqgVI&t=1s)

# [Lab: Working with Virtual Machines](https://www.cloudskillsboost.google/paths/11/course_templates/50/labs/485541)

# [Lab Review: Working with Virtual Machines](https://www.youtube.com/watch?v=7c_3m5t53dA&t=1s)

# [Module Review](https://www.youtube.com/watch?v=ABJumQbrFZo)

# [Course Review](https://www.youtube.com/watch?v=mDWvxWO9LFA)

## 05

# Essential Google Cloud Infrastructure: Core Services

# [Course Introduction](https://www.youtube.com/watch?v=oB8Iro1j8nQ&t=9s)

# [IAM Module Overview](https://www.youtube.com/watch?v=l0VhzWvppCw)

# [Organization](https://www.youtube.com/watch?v=1ZHNvjAzAZU&t=3s)

# [Roles](https://www.youtube.com/watch?v=UzmmDv1C9OQ&t=1s)

# [Demo: Custom roles](https://www.youtube.com/watch?v=TuB5UotB3RY&t=10s)

# [Members](https://www.youtube.com/watch?v=pAO_VuWtte4)

# [Service Accounts](https://www.youtube.com/watch?v=OkJHtHj_SE0)

# [Organization Restrictions](https://www.youtube.com/watch?v=dKH-11hy_eI&t=1s)

# [IAM best practices](https://www.youtube.com/watch?v=gpMMYJ4KgLI)

# [Lab Intro: Exploring IAM](https://www.youtube.com/watch?v=3_UTSXFX-CM)

# [Lab: Exploring IAM](https://www.cloudskillsboost.google/paths/11/course_templates/49/labs/470022)

# [Lab Review: Exploring IAM](https://www.youtube.com/watch?v=DjXuPF_dkS4)

# [Module Review](https://www.youtube.com/watch?v=sHYMhs3jSXU)

# [Cloud storage Module Overview](https://www.youtube.com/watch?v=xcgB1-T7Z-Q)

# [Cloud Storage](https://www.youtube.com/watch?v=6_XvGqSqOOI)

# [Cloud Storage Features](https://www.youtube.com/watch?v=UnICmttQThw)

# [Choosing a storage class](https://www.youtube.com/watch?v=i3zCA5g_ybw)

# [Filestore](https://www.youtube.com/watch?v=v63FT-Jl3GI)

# [Lab Intro: Cloud Storage](https://www.youtube.com/watch?v=iaPyYBDZVAs)

[Lab: cloud storage](https://www.cloudskillsboost.google/paths/11/course_templates/49/labs/470032)

# [Lab Review: Cloud Storage](https://www.youtube.com/watch?v=IyLUYkB4stI)

# [Cloud SQL](https://www.youtube.com/watch?v=ehK0JgmMQ5Y&t=11s)

# [Lab Intro: Cloud SQL](https://www.youtube.com/watch?v=lmsEIDajtBc)

[Lab](https://www.cloudskillsboost.google/paths/11/course_templates/49/labs/470036)

[Lab review](https://www.youtube.com/watch?v=POkBsXPfWWY&t=1s)

# [Cloud Spanner](https://www.youtube.com/watch?v=OvYVxi2z0OE)

# [AlloyDB](https://www.youtube.com/watch?v=Icfw5ETwjt4)

[Firestore](https://www.youtube.com/watch?v=n2xU_RfYUAc)

# [Cloud Bigtable](https://www.youtube.com/watch?v=dVOwvKWn9cw&t=1s)

# [Memorystore](https://www.youtube.com/watch?v=F7rycmtpVEA&t=1s)

# [Module Review](https://www.youtube.com/watch?v=6Li6CGVb33A&t=1s)

# [Module Overview](https://www.youtube.com/watch?v=RarWueVqv1g&t=1s)

# [Resource Manager](https://www.youtube.com/watch?v=l_2CTt_e9_s)

# [Quotas](https://www.youtube.com/watch?v=D8A-x_Mv7f4)

# [Labels](https://www.youtube.com/watch?v=MhhTxjR8MQY)

# [Billing](https://www.youtube.com/watch?v=5867HA81Mwo)

# [Demo: Billing Administration](https://www.youtube.com/watch?v=xBxQF2KhLpE&t=1s)

# [Lab: Examining Billing data with BigQuery](https://www.cloudskillsboost.google/paths/11/course_templates/49/labs/470052)

# [Lab Review: Examining Billing Data with BigQuery](https://www.youtube.com/watch?v=J3t2RhBNsa4&t=2s)

# [Module Review](https://www.youtube.com/watch?v=mtpwMtPjhLQ&t=1s)

# [Google Cloud's Operations Suite Overview](https://www.youtube.com/watch?v=bUCIk-zAsdw&t=59s)

# [Monitoring](https://www.youtube.com/watch?v=4RmbSYIgZxc)

# [Lab: Resource Monitoring](https://www.cloudskillsboost.google/paths/11/course_templates/49/labs/470060)

# [Lab Review: Resource Monitoring](https://www.youtube.com/watch?v=_y4Sd8DkH9E)

# [Logging](https://www.youtube.com/watch?v=Q9hrrq3pJbE&t=1s)

# [Error Reporting](https://www.youtube.com/watch?v=ctze4xzHwxc&t=1s)

# [Tracing](https://www.youtube.com/watch?v=7D1vAzBQmOY)

# [Profiling](https://www.youtube.com/watch?v=fj_0U3OhJUk)

# [Partner Integrations](https://www.youtube.com/watch?v=xFnGo_poxnw)

# [Module Review](https://www.youtube.com/watch?v=CRchnVTUKQk&t=2s)

<https://storage.googleapis.com/cloud-training/archinfra/v2.2/on-demand/2.1_IAM.pdf>

<https://storage.googleapis.com/cloud-training/archinfra/v2.2/on-demand/2.2_Storage_and_Database_Services.pdf>

<https://storage.googleapis.com/cloud-training/archinfra/v2.2/on-demand/2.3_Resource_Management.pdf>

<https://storage.googleapis.com/cloud-training/archinfra/v2.2/on-demand/2.4_Resource_Monitoring.pdf>

## 06

# Elastic Google Cloud Infrastructure: Scaling and Automation